

MHS Program of Studies  
2020-2021

Dept	Course Title	Course Number	Description	Prerequisites & Additional Information	Duration & Credits	Grade Levels	Course Level	Pathways	Years Offered	Academic Standards
Art	Art Studio I (H)	7001	This is a hands-on and active course! Students at all levels of ability and experience are encouraged to begin their journey into the high school art program here! Students will solve visual challenges in the following areas: drawing, painting, sculpture, printmaking, and design. Art appreciation will be incorporated throughout the yearlong curriculum as well. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	H	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art Studio II (H)	7002	Students will create work that relates thematically from one challenge to the next, thus allowing them to begin to think and work as artists do. Assignments will address the selected theme through the following studio areas: drawing, painting, printmaking, design, sculpture, and mixed media. Art Studio II candidates must have successfully completed Art Studio I. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	H	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art Studio III (H)	7003	Art Studio II + III make up a two-year curriculum with a different theme each year. Drawing, painting, printmaking, design, sculpture, and mixed media will be investigated on an alternate year basis so that by the end of ASIII, all areas have been covered. Creative problem solving will be stressed. Art Studio III candidates must have successfully completed Art Studio II. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	H	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art Studio I (CP)	7101	This is a hands-on and active course! Students at all levels of ability and experience are encouraged to begin their journey into the high school art program here! Students will solve visual challenges in the following areas: drawing, painting, sculpture, printmaking, and design. Art appreciation will be incorporated throughout the yearlong curriculum as well. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art Explorations	7121	This comprehensive introductory semester course is designed to allow for artistic discovery by presenting creative challenges that involve both skill development and reflective experience. Students will explore a wide variety of art media and processes. Units covered will include two-dimensional design, three-dimensional design, and drawing. Students will be asked to observe, think creatively, and make critical decisions while developing problem-solving skills in this engaging hands-on course.		Semester - 2.5 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Fashion Design I	7201	This course introduces students to the creative process of clothing design and focuses on three areas: illustration, flat sketching and design presentation. Students become fluent in design terminology, create and learn to work from inspiration boards, and learn about garment construction and fabrics. Students will be given design challenges and will experience authentic learning of what being a fashion designer truly means. They will also have a start toward building a fashion design portfolio.		Semester - 2.5 Credits	10,11,12	CP	Computer Science, STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3

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Art	Art Studio II (CP)	7301	Students will create work that relates thematically from one challenge to the next, thus allowing them to begin to think and work as artists do. Assignments will address the selected theme through the following studio areas: drawing, painting, printmaking, design, sculpture, and mixed media. Art Studio II candidates must have successfully completed Art Studio I. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art Studio III (CP)	7401	Art Studio II + III make up a two-year curriculum with a different theme each year. Drawing, painting, printmaking, design, sculpture, and mixed media, will be investigated on an alternate year basis so that by the end of ASIII, all areas have been covered. Creative problem solving will be stressed. Art Studio III candidates must have successfully completed Art Studio II. The difference between CP and H is that the honors students complete one major additional independent project each quarter.		Full Year - 5 Credits	9, 10, 11, 12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	2D Art and Design (AP)	7441	AP concludes the journey for students who have demonstrated consistent growth and desire for excellence in their work. AP students should be committed to post-secondary art study as either a vocation or avocation. The course structure meets the guidelines established by The College Board. Approval of the AP teacher is required for enrollment. All AP students are urged to be enrolled in another 2D art class during the fall semester. AP Studio Art students are expected to take the AP Exam in May.		Full Year - 5 Credits	12	AP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Drawing	7501	This is a multi --- media course, which is organized to strengthen each students observational drawing skills and to broaden their definition of what drawing is. A series of assignments has been designed to stretch each individual's development. Classes are made up of students with varying levels of ability and experience. Students considering a career in architecture, graphic design, industrial design, fashion design, and the fine arts are encouraged to take this course.		Semester - 2.5 Credits	10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Art History (AP)	7601	AP Art History provides an introductory college level course regardless of whether one has had previous experience in studio art or art history. Students will examine major forms of artistic expression, look at works of art critically, with intelligence and sensitivity, and will then be asked to articulate what they have seen or experienced in those works. The course structure meets the guidelines established by The College Board.		Full Year - 5 Credits	10,11,12	AP	CCC, Global, Visual & Performing Arts	21-22	A1, A3, A4, S1, S2, C1, C2

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Art	Painting	7610	The painting course is designed to accommodate all levels of painting ability. Structured classes will introduce fundamentals of painting techniques, using a variety of methods and materials. Exercises will be assigned with emphasis placed on color and composition, and the study of form, space and light. Students will be encouraged to explore realism, abstraction, and self-expression. Materials may include tempera paint, acrylic paint, oil paint, watercolor and mixed media.		Semester - 2.5 Credits	10,11,12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Innovative Product Design	7620	Students will create developmental drawings, 3D models, working drawings, and prototypes. These hands-on projects enable students to build an awareness of materials and an understanding of 3D terminology. This course will challenge students to think creatively while considering style, function, and ergonomics. Students will bring their ideas to life and build them in three dimensions. Sketching and perspective drawing will be covered as well as building with a variety of sculptural materials.		Semester - 2.5 Credits	10,11,12	CP	Computer Science, STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Media Communications (Yearbook)	7703	This class offers a variety of publishing activities to students of all grade levels as they plan and design the high school yearbook MiToBo. Students create copy, edit photographs, and implement design elements as they create a unique yearbook each year. Theme development, cover creation, photography, copywriting, and design are all student-driven under the leadership of the faculty advisor. Every student who continues the class into their senior year achieves Yearbook Editor status.		Full Year - 5 Credits	9,10,11,12	H	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Graphic Design I	7801	This course is an introduction to the art of using typography and imagery to convey information. Fundamental 2D design skills will be stressed during the first quarter. After learning some basic design and computer skills, real-life design projects from local non-profit organizations will become the focal point of the class. Skill areas will include concept development, composition, typography, and vector art. Students work in the Mac lab where they will primarily utilize Adobe Illustrator.		Semester - 2.5 Credits	10,11,12	CP	Media & Communication, STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Woodworking I	7821	In this hands-on course, students learn techniques of woodworking and safe operation of woodworking machines and tools. The goal of this course is to bring students to a level of craftsmanship that will enable them to take pride in their accomplishments and be able to apply their skills and knowledge throughout their lives. The course also includes basic elements of building design and characteristics of different woods and their potential applications.		Semester - 2.5 Credits	9,10,11,12	CP	STEAM, Visual & Performing Arts	All years	A3, S1, S2

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Art	Woodworking II	7822	This course builds on the skills and knowledge students mastered in Woodworking I. Students learn more advanced techniques as well as design principles and applications. The course also emphasizes project planning, creativity and fine workmanship, enabling students to create pieces that are functional and aesthetically pleasing.	Completion of Wood Technology I with a minimum grade of C	Semester - 2.5 Credits	9,10,11,12	CP	STEAM, Visual & Performing Arts	All years	A3, S1, S2
Art	Woodworking III	7823	This course provides students with opportunities to develop woodworking skills from Woodworking I and II. Projects are meant to be extremely challenging and creative, allowing students to expand their previously acquired woodworking skills. Students learn advanced techniques and develop problem-solving skills. Projects require each student to possess a high degree of attention for design, details, precise measurement, along with the ability to evaluate the quality of their finished piece.	Completion of Wood Technology II with a minimum grade of C	Semester - 2.5 Credits	10,11,12	CP	STEAM, Visual & Performing Arts	All years	A3, S1
Art	Photo I	7901	Areas covered in this introduction to quality black and white photography include learning to use a single lens reflex (SLR) camera, exposure theory, developing film, and printing techniques in the darkroom. Emphasis is on creative expression while mastering the technical processes. 35mm cameras are available for student use, and film and photographic paper are provided to complete the course projects. Students are also welcome to bring their own 35mm film cameras to learn to use as well.		Semester - 2.5 Credits	9,10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Photo II	7912	Photography II is the follow up course to both Photo I & Photography and Social Media. Students will work both in film as well as digital. There will be more frequent critiques and projects will be more advanced. Individual and group photo shoots will introduce students to studio lighting techniques as well as photography studio basics. Digital SLR cameras and 35mm film cameras are available for student use, and film and photographic paper are provided as needed to complete the course projects.	Photo II candidates must have successfully completed Photo I or Photography and Social Media	Semester - 2.5 Credits	9,10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Photography and Social Media	7921	We begin with an introduction to the digital DSLR camera to understand the mechanics of photography. Then we'll take an in-depth look at the advanced features of smartphones in capturing both still images and video. Students will learn Adobe Photoshop and Lightroom to edit images. Students will shoot and edit video using smartphones and Adobe Premier to create short movies and stop-motion animations. We'll also learn how successful photographers on Instagram create some of their amazing images!		Semester - 2.5 Credits	9,10,11,12	CP	Media & Communication, STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3

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Art	Photo III	7931	Photo III, which runs concurrent with Photo II, serves as the follow up course. Students will continue to work both in film as well as digital. Through combined critiques, students in both levels will gain insight from each other, A&S experiences. The projects will continue to give students more workable knowledge in studio techniques. Digital SLR cameras and 35mm film cameras are available for student use, and film and photographic paper are provided as needed to complete the course projects.	Photo III candidates must have successfully completed Photo II.	Semester - 2.5 Credits	10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Photo IV	7941	This capstone course in photography serves as the culminating educational experience at Masconomet and is designed for the serious photography student who has decided to pursue this medium for commercial work or a college portfolio. Students are expected to complete thirty teacher approved, professional level pieces. Digital SLR cameras and 35mm film cameras are available for student use, and film and photographic paper are provided as needed to complete the course projects.	Photo IV candidates must have successfully completed Photo III.	Semester - 2.5 Credits	10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Ceramics I	7951	This is a hands --- on course that will explore methods of hand building and wheel --- throwing to create ceramic pieces. While much of the work that is created in this class will be functional (bowls, containers, plates, etc.), there will also be work created that is purely sculptural. In addition to building techniques, students will also learn techniques for decorating their clay objects. This will include the use of underglazes and engobes as well as glazes.		Semester - 2.5 Credits	10,11,12	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Architecture I	7980	Students will learn about basic architectural design concepts and drawing formats, which they will then employ in the design and construction of prototypes. Important architectural principles are introduced through studio exercises, slide lectures, and demonstrations. Students will develop an understanding of perspective, scale, form, and spatial relationships by drawing, designing, drafting, and model-building.		Semester - 2.5 Credits	10,11,12	CP	STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C1, C2, C3
Art	Architecture II	7981	The design knowledge gained from Architecture I is transferred from the drawing boards and model making studio and brought into the computer lab and wood working shop. Through the use of ArchiCAD and SketchUp, students will develop skills to digitally draft plans and elevations to hone their designs and additionally learn actual construction techniques by creating a scale model in wood of their resolved architectural design.	Architecture II candidates must have successfully completed Architecture I	Semester 2.5 Credits	10, 11, 12	CP	STEAM, Visual & Performing Arts	21-22	A1, A3, A4, S1, S2, C1, C2, C3

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Business & Computer Science	Global Economy & International Business	5421	This course examines the impact that global cultures and government has on international business from the United States, point of view. The expansion of United States businesses to foreign markets will be analyzed along with the barriers to importing and exporting products abroad. International cultures will be examined as they relate to international marketing and the need for American products to adapt if they wish to be successful.		Semester - 2.5 Credits	11,12	CP	CCC, Computer Science, Global	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Global Economy & International Business	5441	This course examines the impact that global cultures and government has on international business from the United States; point of view. The expansion of United States businesses to foreign markets will be analyzed along with the barriers to importing and exporting products abroad. International cultures will be examined as they relate to international marketing and the need for American products to adapt if they wish to be successful.		Semester - 2.5 Credits	11,12	H	CCC, Computer Science, Global	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Accounting I: The Accounting Cycle	5521	This course provides excellent preparation for college accounting courses. The complete accounting cycle is taught in this course including special journals; ledgers and financial statements for sole proprietorships, partnerships and corporations. High performing students in this course have secured internships with local businesses through instructor recommendation. This course fulfills a one year Mathematics requirement.		Full Year - 5 Credits	11,12	CP	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	DECA I	5533	DECA I is an introductory course for students interested in learning about business activities. They will develop business vocabulary and problem-solving skills in the areas of marketing, finance, administration, entrepreneurship and hospitality/tourism. A major component is the writing/presentation of a business research paper according to DECA HS Competitive Events standards. This course is highly recommended for students in grades 9-12 who plan on competing in the DECA Club competitions.		Half Year - 2.5 credits	9, 10, 11, 12	H	Computer Science	All Years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Marketing	5534	Marketing is a course that introduces the student to all aspects of marketing a product. Students will be able to identify all activities that are needed to have a product move from its maker to the hands of the consumer. Topics to be covered may include: identifying needs, marketing information and research, pricing, promotion, advertising, selling, distribution, identifying marketing strategies and marketing for a service business. Experience working in the Masco School Store.		Semester - 2.5 Credits	10, 11, 12	H	Media & Communications, Computer Science, STEAM, Visual & Performing Arts	All Years	A1, A2, A3, A4, S1, S2, C1, C3

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Business & Computer Science	Accounting Principles	5541	This course provides an understanding of basic accounting principles. Topics include: scope and uses of accounting; the theory and use of accounts, and the recording of business transactions; the purpose and structure of financial statements; plant asset depreciation and disposition; intangible assets; payrolls; bond and stock issuances, and other stock transactions. Prerequisite: Successful completion of Algebra II. Fulfills one year of Mathematics requirement.		Full Year - 5 Credits	11,12	H	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Computer Science Principles AP	5542	AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.		Full Year - 5 Credits	11, 12	H	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Fundamentals of Banking	5551	The course will provide students with an overview of the history and purpose of banking. The focus will be on how banking institutions serve individuals, businesses and government. A partnership between the Masconomet Business Department and the Institutions for Savings exists to train students for the banking and finance industry. Students may have opportunities to work as bank tellers and customer service representatives at the school's branch office.	Admittance in to this course is contingent upon a personal interview with, and approval of, the banking teacher.	Full Year - 5 Credits	11,12	CP	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Fundamentals of Banking	5553	The course will provide students with an overview of the history and purpose of banking. The focus will be on how banking institutions serve individuals, businesses and government. A partnership between the Masconomet Business Department and the Institutions for Savings exists to train students for the banking and finance industry. Students may have opportunities to work as bank tellers and customer service representatives at the school's branch office.	Admittance in to this course is contingent upon a personal interview with, and approval of, the banking teacher.	Full Year - 5 Credits	11, 12	H	Computer Science	All Years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Marketing	5554	Marketing is a course that introduces the student to all aspects of marketing a product. Students will be able to identify all activities that are needed to have a product move from its maker to the hands of the consumer. Topics to be covered may include: identifying needs, marketing information and research, pricing, promotion, advertising, selling, distribution, identifying marketing strategies and marketing for a service business. Gain experience working in the Masco School Store.		Semester - 2.5 Credits	10,11,12	CP	Media & Communications, Computer Science, STEAM, Visual & Performing Arts	All years	A1, A2, A3, A4, S1, S2, C1, C3

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Business & Computer Science	Business & Personal Law	5621	Business Law is a semester course that introduces the basic principles of business and personal law to students. In this course, students will gain an understanding of the legal principles that will be used throughout the rest of their life, either personally or in the business world. Students will develop a critical eye for the legal process in analyzing facts and making an impartial decision. Topics will include the US legal system and Mass State Court System.		Semester - 2.5 Credits	10,11,12	CP	CCC, Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Business Management - Sport & Entertainment Marketing	5622	The purpose of this course is to present the student with a solid foundation about what business is, how it operates, and how it is managed. Specific topics include the characteristics of business, forms of ownership, management functions, and production and marketing management. Using virtual simulations, students will learn about sport and entertainment marketing and management. High performing students will have secured internships with local businesses through instructor recommendation.		Semester - 2.5 Credits	11,12	CP	CCC, Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Business & Personal Law	5623	Business Law is a semester course that introduces the basic principles of business and personal law to students. In this course, students will gain an understanding of the legal principles that will be used throughout the rest of their life, either personally or in the business world. Students will develop a critical eye for the legal process in analyzing facts and making an impartial decision. Topics will include the US legal system and Mass State Court System.		Semester - 2.5 Credits	10,11,12	H	CCC, Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Business & Personal Law II	5624	Business and Personal Law II can be a sequential course to Business and Personal Law 1. This course covers relevant topics in civil and criminal law as it relates to contract and consumer law. Students will develop a critical eye for the legal contractual process. There are no prerequisites for this course.		Semester - 2.5 Credits	10, 11,12	CP	CCC, Computer Science	All years	A1,A2,A3,A4,S2,C1,C3
Business & Computer Science	Business Management - Sport & Entertainment Marketing	5631	The purpose of this course is to present the student with a solid foundation about what business is, how it operates, and how it is managed. Specific topics include the characteristics of business, forms of ownership, management functions, and production and marketing management. Using virtual simulations, students will learn about sport and entertainment marketing and management. High performing students will have secured internships with local businesses through instructor recommendation.		Semester - 2.5 Credits	11, 12	H	CCC, Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3



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Business & Computer Science	Business & Personal Law II	5635	Business and Personal Law II can be a sequential course to Business and Personal Law I. This course covers relevant topics in civil and criminal law as it relates to contract and consumer law. Students will develop a critical eye for the legal contractual process. There are no prerequisites for this course.		Semester - 2.5 Credits	11,12	H	CCC, Computer Science	All years	A1,A2,A3,A4,S2,C1,C3
Business & Computer Science	Financial Management	5711	Each year thousands of college students graduate with credit card and student loan debt. The average student loan debt in 2018 is \$33,654. Financial Management teaches students the practical facts they need before entering college or the working world. Students will learn to how to create and manage a budget, protect their credit, and manage a bank account.		Semester - 2.5 Credits	11,12	CP	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Financial Management	5731	Each year thousands of college students graduate with credit card and student loan debt. The average student loan debt in 2018 is \$33,654. Financial Management teaches students the practical facts they need before entering college or the working world. Students will learn to how to create and manage a budget, protect their credit, and manage a bank account.		Semester - 2.5 Credits	11, 12	H	Computer Science	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Introduction to Computer Science	5810	Introduction to Computer Science offers the unique opportunity for 9th graders to learn programming and website development. This course will have a heavy focus on coding and developing applications and games to prepare you for the Computer Science field which continues to see significant growth.		Semester - 2.5 Credits	9	CP	Computer Science, Media & Communication	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Computer Science I : Business Applications and Technologies	5811	Explore the World Wide Web to find out what new technology is in store for the future. Create cartoon and graphic animations with Animation Shop. Spend time using your creative minds to develop eye-catching commercials with iMovie and Final Cut, the same software used for our morning announcements. Learn how to make visually appealing applications and games with Visual Basic. Set your sights high by developing and displaying your web pages for the entire world to see in learning how to code		Full Year - 5 Credits	9,10,11,12	CP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3

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Business & Computer Science	Computer Science I : Business Applications and Technologies (H)	5812	Explore the World Wide Web to find out what new technology is in store for the future. Create cartoon and graphic animations with Animation Shop. Spend time using your creative minds to develop eye-catching commercials with iMovie and Final Cut, the same software used for our morning announcements. Learn how to make visually appealing applications and games with Visual Basic. Set your sights high by developing and displaying your web pages for the entire world to see in learning how to code.		Full Year - 5 Credits	9,10,11,12	H	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science I : Business Applications and Technologies (CP) - All Girls Class	5813	All topics found above in the Computer Science I class #5811 will be covered. Web page design and development will figure prominently in the course as well as video production which will be geared towards student interest and trends. Overall, the course will appeal to a female audience with relevant projects and assignments allowing students to have input in the direction of class work.		Full Year - 5 Credits	9,10,11,12	CP	Computer Science, Global, STEAM	All years	A1,A2,A3,A4,S1,S2,C1,C2,C3
Business & Computer Science	Computer Science I : Business Applications and Technologies (H) - All Girls Class	5814	All topics found above in the Computer Science I class #5811 will be covered. Web page design and development will figure prominently in the course as well as video production which will be geared towards student interest and trends. Overall, the course will appeal to a female audience with relevant projects and assignments allowing students to have input in the direction of class work.		Full Year - 5 Credits	9,10,11,12	H	Computer Science, Global, STEAM,	All years	A1,A2,A3,A4,S1,S2,C1,C2,C3
Business & Computer Science	Computer Science II: Coding and App Development (CP)	5821	Students will gain programming and design skills within the Adobe Program Suite. Create computer animations in Flash culminating in a semester ending project animating their own story. Students will combine JavaScript programming and Dreamweaver web design skills to product interactive web sites. Students will learn various concepts in Visual Basic and program a video game of their choosing from scratch. Additional requirements for Honors Level		Full Year - 5 Credits	10,11,12	CP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science II: Coding and App Development (H)	5822	Students will gain programming and design skills within the Adobe Program Suite. Create computer animations in Flash culminating in a semester ending project animating their own story. Students will combine JavaScript programming and Dreamweaver web design skills to product interactive web sites. Students will learn various concepts in Visual Basic and program a video game of their choosing from scratch. Additional requirements for Honors Level		Full Year - 5 Credits	10,11,12	H	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3

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Business & Computer Science	Computer Science II: Coding and App Development (CP) - All Girls Class	5823	All topics found above in the Computer Science II class #5821 will be covered. Lessons will be geared toward student interest and trends. Overall, the course will appeal to a female audience with relevant projects and assignments allowing students to have input in the direction of classwork.		Full Year - 5 Credits	10,11,12	CP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science II: Coding and App Development (H) - All Girls Class	5824	All topics found above in the Computer Science II class #5821 will be covered. Lessons will be geared toward student interest and trends. Overall, the course will appeal to a female audience with relevant projects and assignments allowing students to have input in the direction of classwork.		Full Year - 5 Credits	10,11,12	H	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science III: Advanced Coding	5825	Students will learn various programming languages including but not limited to Java, CSS, PHP, ActionScript, Python and JavaScript in a coding --- first environment. Students will produce a video game using advanced coding concepts. Students will use Dreamweaver with CSS and PHP programming to develop web sites hosted on line on the Masconomet web server. Students will build Lego Mindstorms robots to complete certain tasks and compete in a class wide Battlebot tournament.		Full Year - 5 Credits	11,12	CP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science III: Advanced Coding	5833	Students will learn various programming languages including but not limited to Java, CSS, PHP, ActionScript, Python and JavaScript in a coding --- first environment. Students will produce a video game using advanced coding concepts. Students will use Dreamweaver with CSS and PHP programming to develop web sites hosted on line on the Masconomet web server. Students will build Lego Mindstorms robots to complete certain tasks and compete in a class wide Battlebot tournament.		Full Year - 5 Credits	11,12	H	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3
Business & Computer Science	Computer Science AP	5841	If you are interested in a career in computer science and programming, this course is a MUST! Java is one of the more popular programming languages and is widely used to implement network interfaces, Web servers, and e-commerce solutions, as well as standard business applications. Students will learn to use Java to create well-written and readable programs using a disciplined coding style to solve mathematical problems. The curriculum will cover the material found on the AP Exam (A Level).	Teacher Recommendation	Full Year - 5 Credits	12	AP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C2, C3

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Business & Computer Science	Computer Science - Gaming & Industry	5851	This course explores game programming and will cover many different game genres including action and adventure, first person, sports, and multiplayer games. It will explore the different types of roles in the game development process from the design phase to technical programming. Students will work independently as well as in team settings to complete major game projects throughout the year utilizing various game development software.		Full Year - 5 Credits	11,12	CP	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C3
Business & Computer Science	Computer Science - Gaming & Industry	5852	This course explores game programming and will cover many different game genres including action and adventure, first person, sports, and multiplayer games. It will explore the different types of roles in the game development process from the design phase to technical programming. Students will work independently as well as in team settings to complete major game projects throughout the year utilizing various game development software.		Full Year - 5 Credits	11,12	H	Computer Science, Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C1, C3
English	Literature and the Individual	0121	Revolving around the essential question "Who am I and how do I know?" students are introduced to interpreting literature, and writing of all forms. Students read a selection of classic literature, as well as a selection of more modern texts. Students write primarily interpretive essays based on the literature they read, as well as some reflective, personal writing. Students will have nightly homework, usually reading, and will analyze the literature through various forms of expression.		Full Year - 5 Credits	9	CP		All years	A1, A3, A4, S1, S2
English	Literature and the Individual	0131	Revolving around the essential question "Who am I and how do I know?" students read a selection of classic literature, as well as a selection of more modern texts. Students write interpretive essays based on the literature, as well as reflective writing. Honors contains more difficult readings, rigorous writing, and more onus on the student. Students should be able to write an organized, analytical piece stating a thesis and using evidence; students are able to go beyond a basic plot summary.	Teacher recommendation required.	Full Year - 5 Credits	9	H		All years	A1, A3, A4, S1, S2
English	Global Literature (CP)	0180	The aim of the course is to enlarge student understanding of the varieties of human experience by attending to stories about people from cultures different from our own. While students will be asked to read carefully and to write about the literature in the traditional analytical manner, the underlying task will be for students to imagine living according to a different set of "rules" or cultural assumptions. Students will write at least one formal analytical essay each quarter.		Full Year - 5 Credits	12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C1, C2

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English	The Graphic Novel	0181	Students will explore and discuss the comics medium through graphic novels. We examine the pioneers of the genre, trace the development of theme, analyze aspects of gender, race, sexuality, justice, heroism, and life of the postmodern teenager, as well as analyze contemporary film adaptations. We analyze the combination of artistic imagery and narrative technique and learn how to construct comics by creating our own. We will continue to develop writing skills with a focus on voice and audience.		Full Year - 5 Credits	12	CP		18-19 and beyond	A1, A2, A4, S1, S2, C1
English	The Gothic Tradition in Literature and Film	0182	This course will trace both the British and American versions of gothic literature in order to explore questions about the supernatural, the psychology of horror and terror, the significance of fantasy and fear, the desire for moral closure and the rules governing gender, race, class, and sexuality. Students will explore a variety of genres: novels, plays, short stories, poetry, and film. Students will write at least one formal analytical essay each quarter.		Full Year - 5 Credits	12	CP	Global	All years	A1, A2, A4, S1, S2, C1
English	Poetry (CP)	0183	Students in this senior course will approach poetry as both readers & writers. We will study poetry by authors ranging from Shakespeare to Rupi Kaur in order to glean poetic techniques to apply in our own poetry. Each quarter students will write at least one formal analytical essay about poetry & create a portfolio of revised student poetry. No prior expertise in the writing of poetry is required but a curiosity about poetry is essential. Grades will equally reflect creative & analytical writing		Full Year - 5 Credits	12	CP		All years	A1, A2, A4, S1, S2, C1
English	Global Literature	0184	The aim of the course is to enlarge student understanding of the varieties of human experience by attending to stories about people from cultures different from our own. While students will be asked to read carefully and to write about the literature in the traditional analytical manner, the underlying task will be for students to imagine living according to a different set of "rules" or cultural assumptions. Honors level requires additional readings and assignments.	Teacher recommendation required.	Full Year - 5 Credits	12	H	CCC	All years	A1, A3, A4, S1, S2, C1, C2
English	The Graphic Novel	0185	We examine the pioneers of the genre of graphic novel, trace the development of theme, analyze aspects of gender, race, sexuality, justice, heroism, and life of the postmodern teenager, as well as analyze contemporary film adaptations. We analyze the combination of artistic imagery and narrative technique and learn how to construct comics by creating our own. We will continue to develop writing skills with a focus on voice and audience. Honors level requires additional readings and assignments.	Teacher recommendation required.	Full Year - 5 Credits	12	H		18-19 and beyond	A1, A2, A4, S1, S2, C1

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English	The Gothic Tradition in Literature and Film	0186	This course will trace both the British and American versions of gothic literature in order to explore questions about the supernatural, the psychology of horror and terror, the significance of fantasy and fear, the desire for moral closure and the rules governing gender, race, class, and sexuality. Students will explore a variety of genres: novels, plays, short stories, poetry, and film. Students will write at least one formal analytical essay each quarter.	Teacher recommendation required. Honors level requires additional assignments	Full Year - 5 Credits	12	H	Global	All years	A1, A2, A4, S1, S2, C1
English	Poetry (H)	0187	Students in this senior course will approach poetry as both readers & writers. We will study poetry by authors ranging from Shakespeare to Rupi Kaur in order to glean poetic techniques to apply in our own poetry. Each quarter students will write at least one formal analytical essay about poetry & create a portfolio of revised student poetry. No prior expertise in the writing of poetry is required but a curiosity about poetry is essential. Grades will equally reflect creative & analytical writing	Honors level requires additional assignments. Teacher recommendation required.	Full Year - 5 Credits	12	H		All years	A1, A2, A4, S1, S2, C1
English	Literature and the Community	0221	Revolving around the essential question "How do individuals establish a positive relationship with their community?" Grade 10 English blends literary & composition skills, with most of the writing being an analysis of the literature covered. Students read a selection of literature of various styles & time periods, as well as poems, short stories, & essays. Students write creative and/or analytical essays for each major work or genre, as well as focus on verbal skills such as discussion & debate.	Successful completion of English 9 is a prerequisite for admission to the tenth grade program	Full Year - 5 Credits	10	CP		All years	A1, A3, A4, S1, S2
English	Literature and the Community	0231	Revolving around the essential question "How do individuals establish a positive relationship with their community?" Grade 10 blends literary and composition skills, with most of the writing being an analysis of the literature covered. Students read a selection of literature of various styles and time periods, as well as poems, short stories, and essays. Honors contains more difficult readings, rigorous writing, required oral participation and activities, and more onus on the student.	Successful completion of English 9 is a prerequisite for admission to the tenth grade program. Teacher recommendation required.	Full Year - 5 Credits	10	H		All years	A1, A3, A4, S1, S2
English	American Literature	0321	This course focuses on a survey of selected major American writers ranging from the Modern era to today. Aligning with 11th grade social studies, we examine the question, "What is American about American literature?" Students read full-length texts by authors such as Fitzgerald, Miller, O'Connell, and Ward, supplemented by various short stories, poems, and essays. A critical paper is written in conjunction with the reading of most major works and/or units covered.	Successful completion of English 10 is a prerequisite for admission to the eleventh grade program.	Full Year - 5 Credits	11	CP		All years	A1, A3, A4, S1, S2, C1

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English	American Literature	0331	This course focuses on a survey of selected major American writers ranging from the Modern era to today. Aligning with 11th grade social studies, we examine the question, "What is American about American literature?" Students read full-length texts by authors such as Fitzgerald, Miller, O'Connell & Ward, supplemented by short stories, poems, & essays. A critical paper is written in conjunction with the reading of major works & units covered. Honors level requires additional readings & assignments	Successful completion of English 10 is a prerequisite for admission to the eleventh grade program. Teacher recommendation required.	Full Year - 5 Credits	11	H		All years	A1, A3, A4, S1, S2, C1
English	Foundations in English 12	0410	This course is for seniors pursuing an alternate track who need to develop critical thinking, reading (and response-to-reading), writing, speaking and listening skills with real-life applications. This course is more individualized to identify and build on students' unique strengths and to meet specific student needs, interests and goals. Foundations will revolve around more goal-setting, current events and non-fiction reading and writing, in comparison to other traditional 12th grade offerings.	Requires teacher recommendation	Full Year - 5 Credits	12			All years	A1, A3, A4, S1, S2
English	AP English: Literature and Composition	0441	This course is for seniors who are ready for the reading and writing skills taught in introductory college courses and who would like to take more advanced English courses when they arrive at college. In this course, the teacher is often discussion leader, questioner and critic, guiding students to assume some of the responsibility for their own learning. The close study of a small number of works in class will be coordinated with the variety offered in the students' outside reading.	Teacher recommendation required	Full Year - 5 Credits	12	AP		All years	A1, A2, A4, S1, S2, C1
English	Creative Writing	0461	This is for students who have a passion for writing and who want to experiment with different types of writing. Throughout the semester students will continually work on and eventually submit a polished final draft of a short story. Students may submit at least one piece of writing to the Scholastic Writing Contest and/or the school's literary magazine.		Semester - 2.5 Credits	10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2
English	Creative Writing	0462	This is for students who have a passion for writing and who want to experiment with different types of writing. Throughout the semester students will continually work on and eventually submit a polished final draft of a short story. Students should submit at least one piece of writing to the Scholastic Writing Contest and/or the school's literary magazine. Students who take this for Honors credit will produce additional projects.		Semester - 2.5 Credits	10,11,12	H	Media & Communication, Visual & Performing Arts	All years	A1, A3, A4, S1, S2

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English	Perspectives on Literature and the Individual	0512	Revolving around the essential question "Who am I and how do I know?" students are introduced to interpreting literature and writing of all forms. Students read a selection of literature, and will write primarily interpretive essays, as well as some reflective, personal writing. Students will be guided through each step of the writing process while physically in class. This is a dual English and Special Ed. course - it is modified extensively to meet the needs of individual students.	Teacher recommendation required	Full Year - 5 Credits	9	Language-based disabilities		All years	A1, A3, A4, S1, S2
English	Perspectives on Literature and the Community	0513	Revolving around the essential question "How do individuals establish a positive relationship with the community?" This course blends literary & composition skills based on the literature covered. Students read a selection of works of various styles & time periods, & will be guided through the writing process in class. This is a dual English and Special Ed. course - it is modified extensively to meet the needs of individual students.	Teacher recommendation required	Full Year - 5 Credits	10	Language-based disabilities		All years	A1, A2, A4, S1, S2, C1
English	Perspectives on American Literature	0515	This course focuses on a survey of selected major American writers ranging from the colonial era to modern day. We examine the question, "What is American about American literature?" This class blends literary and composition skills based on the literature and supplemental materials covered. This is a dual English and Special Ed. course - it is modified extensively to meet the needs of individual students.	Teacher recommendation required	Full Year - 5 Credits	11	Language-based disabilities		All years	A1, A3, A4, S1, S2
English	AP English:Language and Composition (AP)	0541	This junior course cultivates the reading and writing skills that students need for college success and civic engagement. The course places a particular emphasis on persuasive argument, considering questions of tone, purpose, and audience across diverse genres of literature, including nonfiction, fiction, and poetry, and diverse modes of expression, including print, speech, and image. Students enrolled in this course will prepare to take the AP Language and Composition examination.	Teacher recommendation required	Full Year - 5 Credits	11	AP		All years	A1, A2, A4, S1, S2, C1
English	Archetypes and Motifs in Literature and Cinema	0621	Using recurring motifs and psychological archetypes as a focus for exploring literature and cinema, this course attempts to teach the student to recognize and identify patterns of ideas used by writers and artists over the centuries. Students will see how basic concepts such as good and evil, innocence and experience, heroism, independence, and others have been treated over the centuries and how these concepts apply in the student's own lives.		Semester - 2.5 Credits	10,11,12	CP	Media & Communication	All years	A1,A3,A4,S1,S2,C3



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English	Media Communications I	0821	In this class, you will write articles for the Chieftain Chronicle school newspaper and cover Masco sports for the Tri-Town Transcript. You will participate in the Morning Update broadcast in front of or behind the camera. You also will create film projects ranging from advertisements to documentaries. Get ready to interview, write, edit, and produce.		Full Year - 5 Credits	9,10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1,A3,A4,S1,S2,C1,C2,C3
English	Introduction to Media and Communications	0822	Ever wondered what it's like to work on a TV show? Broadcast on the radio? Advertise products? Report for a newspaper? This course lets you to do all of these things and more. We will introduce you to various forms of media like print journalism, broadcast journalism and social media. We will use the TV studio and the radio station as laboratories. If you think you might want to work in sports casting, advertising, radio or TV news, in front of or behind the camera, this course is for you.		Semester - 2.5 Credits	9, 10	CP	Media & Communication, Visual & Performing Arts	Not Running 21-22	A1,A3,A4,S1,S2,C1,C2,C3
English	Media Communications I	0823	In this class, you will write many articles for the Chieftain Chronicle school newspaper and cover Masco sports for the Tri-Town Transcript. You will plan and participate in the Morning Update broadcast in front of or behind the camera. You also will create and edit film projects ranging from advertisements to documentaries. Get ready to interview, write, edit, and produce.		Full Year - 5 Credits	9,10,11,12	H	Media & Communication, Visual & Performing Arts	All years	A1,A3,A4,S1,S2,C1,C2,C3
English	Media Communications II	0831	Students will apply their reporting skills as they take a lead role in managing, editing and covering news for the Chieftain Chronicle and sports for the Tri --- Town Transcript. Leadership roles will also be taken in production of the Morning Update broadcast, including writing and directing the show. Students will study film technique and other media literacy related topics. Media Communications I is a prerequisite. This course may be taken more than once.		Full Year - 5 Credits	11,12	H	Media & Communication, Visual & Performing Arts	All years	A1,A3,A4,S1,S2,C1,C2,C3
English	American Studies: Voices of Protest and Progress (CP)	2312	This interdisciplinary English & American History class will examine the question, What does it mean to be an American? Students explore American themes in literature, history, art, music and philosophy. Students will demonstrate their understanding through critical thinking, source analysis, historical research, technology integrated projects and civil discourse. The course is a team taught, double period class, which fulfills course requirements in junior year English & American History II.	Successful completion of English 10 is a prerequisite for admission to the eleventh grade program.	Full Year - 10 Credits	11	CP	CCC	All years	A1, A2, A3, S1, S2, C2

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English	American Studies: Voices of Protest and Progress (H)	2332	This interdisciplinary English & American History class will examine the question, What does it mean to be an American? Students explore American themes in literature, history, art, music and philosophy. Students will demonstrate their understanding through critical thinking, source analysis, historical research, technology integrated projects and civil discourse. The course is a team taught, double period class, which fulfills course requirements in junior year English & American History II.	Successful completion of English 10 is a prerequisite for admission to the eleventh grade program. Teacher recommendation required.	Full Year - 10 Credits	11	H	CCC	All years	A1, A2, A3, S1, S2, C2
Math	Applying Algebra to Intro Physics - Math (CP)	1122	Math focuses on solving linear equations & equations involving square & square root expressions, graphing, investigating equations of lines and applying properties of integer exponents to strengthen mathematical concepts utilized in introductory physics.	Recommendation of eighth grade math.	Full Year - 5 Credits	9	CP		All years	A1, A2, A3, S1, S2
Math	Geometry (CP)	1124	Topics include: --- Understanding points, lines & planes as building blocks of geometry --- Constructing and measuring segments & angles --- Reasoning & proof Investigating geometric shapes & the relationships within/between them --- Understanding the relationship among transformations, congruence & similarity --- Investigating perimeter, area, surface area and volume --- Probability. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	Successful completion of Algebra 1 and teacher recommendation. This course may also be taken as a Pass ,Äi Fail course with semester 1 completed during the summer going from grade 8 to grade 9 and semester 2 completed during the summer going from grade 9 to grade 10. Please e-mail the math department chair if interested in this option.	Full Year - 5 Credits	10	CP		All years	A1, A2, A3, A4, S1, S2
Math	Algebra I (CP)	1126	Topics include: --- Solving linear, absolute value, exponential, quadratic & radical (as time permits) equations and linear inequalities --- Investigating properties of polynomials and exponents --- Investigating linear, exponential, quadratic functions --- Solving linear and quadratic systems --- Data analysis. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	Successful completion of Introduction to Algebra and teacher recommendation.	Full Year - 5 Credits	9	CP		All years	A1, A2, A3, A4, S1, S2
Math	Geometry (H)	1131	Topics include: --- Understanding points, lines & planes as building blocks of geometry --- Constructing and measuring segments & angles --- Reasoning & proof --- Investigating geometric shapes & the relationships within/between them --- Understanding the relationship among transformations, congruence & similarity --- Investigating perimeter, area, surface area and volume --- Probability. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least A minus each trimester in Introduction to Algebra or a grade of at least C each trimester in Algebra 1H and teacher recommendation	Full Year - 5 Credits	9, 10	H		All years	A1, A2, A3, A4, S1, S2

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Math	Algebra I (H)	1133	Topics include: --- Solving linear, absolute value, exponential, quadratic & radical equations and linear inequalities --- Investigating properties of polynomials and exponents --- Investigating linear, exponential, quadratic functions --- Solving linear and quadratic systems --- Data Analysis Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least A minus each trimester in Introduction to Algebra and teacher recommendation	Full Year - 5 Credits	9	H		All years	A1, A2, A3, A4, S1, S2
Math	Algebra II (H)	1233	Topics include: --- Creating and solving equations including polynomial, rational, exponential & logarithmic --- Creating and solving polynomial & rational inequalities --- Building, analyzing & interpreting functions including polynomial, rational, exponential, logarithmic & trigonometric --- Using data to make inferences & justify conclusions --- Using probability to make decisions. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least C each trimester/semester in Algebra I H and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	10	H		All years	A1, A2, A3, A4, S1, S2
Math	Algebra II (CP)	1322	This course offers a traditional approach to algebra 2 that is best suited for students interested in a math-science career. It focuses on an in-depth study of polynomial, exponential, logarithmic and rational functions and an introduction to trigonometric functions. Applying these concepts to mathematical and real world problems occurs throughout the course.	Successful completion of a full year algebra 1 course and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	10, 11	CP		All years	A1, A2, A3, A4, S1, S2
Math	Algebra II with Personal Finance Focus (CP)	1325	This course investigates the concepts of a traditional algebra 2 course through the lens of personal finance. Throughout the course students will investigate a range of functions algebraically and graphically. Real world applications included ones related to banking, credit, investing, employment and budgeting will anchor algebra 2 skills and concepts.	Successful completion of a full year algebra 1 course and teacher recommendation. A graphing calculator is required for this course.	Full year ,À 5 Credits	10, 11	CP		All years	A1, A2, A3, A4, S1, S2
Math	Precalculus (H)	1331	Topics include: --- An extensive, in --- depth study of polynomial, rational, exponential, logarithmic and trigonometric functions and their graphs --- The polar coordinate system and the relationship between polar and rectangular coordinates --- Solving systems of linear and non --- linear equations --- Conic sections. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least C each semester and on each semester exam in Algebra 2H and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	11	H	STEAM	All years	A1, A2, A3, A4, S1, S2

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Math	Mathematical Decision Making (CP)	1411	Students will --- Use real world formulas to estimate large crowds, determine weighted averages & investigate various voting methods --- Use regression (linear, quadratic, exponential) to find the best function rule to describe a data set -- Linear programming --- Budget building & personal finance including gross vs net pay, calculating state & federal income taxes and other standard deductions. Throughout the course applying these concepts to mathematical and real world problems is emphasized	Successful completion of an algebra 2 course and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	12	CP	Business, Global, STEAM	All years	A1, A2, A3, S1, S2
Math	Precalculus (CP)	1422	Topics include: --- An extensive, in --- depth study of trigonometric and circular functions including proving trigonometric identities and solving trigonometric equations --- An introduction to the polar coordinate system and the relationship between polar and rectangular coordinates --- An introduction to conic sections. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	Successful completion of Algebra II and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	11, 12	CP	STEAM	All years	A1, A2, A3, A4, S1, S2
Math	Calculus BC (AP)	1441	In addition to the topics above, students will consider various methods for determining convergence and divergence of a series. These include Maclaurin series for common functions, general Taylor series representations, radius and interval of convergence, and operations on power series. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least B each semester and on each semester exam in Pre-Calculus H and teacher recommendation. Students must have a graphing calculator for this course. This course is approximately equivalent to a 2-semester calculus course in college	Full Year - 7.5 Credits	12	AP	STEAM	All years	A1, A2, A3, A4, S1, S2
Math	Calculus AB (AP)	1451	This course is structured around three big ideas: limits, derivatives and integrals. Understanding the concept of limit allows students to identify continuous functions and apply the techniques of calculus to these functions. Students learn to reason with definitions and theorems and communicate their understanding of key concepts numerically, algebraically and graphically. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	A grade of at least C each semester and on each semester exam in Pre-Calculus H and teacher. A graphing calculator is required for this course. recommendation Students must have a graphing calculator for this course. This course is approximately equivalent to a 1 semester calculus course in college	Full Year - 5 Credits	12	AP	STEAM	All years	A1, A2, A3, A4, S1, S2
Math	Statistics (AP_H)	1461	This course is equivalent to a one - semester, non -calculus college course. Students are introduced to the major concepts of tools for collecting, analyzing and interpreting data. Four key themes are considered: --- Exploring data --- Sampling & experimentation --- Anticipating patterns --- Statistical inference. Throughout the course applying these concepts to mathematical and real world problems is emphasized.	Successful completion of Pre-Calculus and teacher recommendation. Students must have a graphing calculator for this course. Seniors who remain in this course during internship are prepared to take the AP statistics exam in May	Full Year - 5 Credits	12	AP/H	CCC, Global, STEAM	All years	A1, A2, A3, A4, S1, S2

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Math	Making Connections in Math	1521	Topics include a review of: --- Proportional reasoning --- Applying arithmetic operations to rational numbers & algebraic expressions --- Using properties of operations to generate equivalent expressions --- Solving equations & inequalities in one variable --- Working with linear functions presented in tabular, graphic or algebraic form --- Basic statistics & probability concepts --- Successful test taking strategies	The course is graded Pass, Æi Fail. Although credit in this course counts toward fulfilling general graduation requirements it does not satisfy the graduation requirement in math.	Semester - 2.5 Credits	10	CP		All years	A1, A2, A3, S1, S2
Math	Introductory Statistics (CP)	1523	Topics include: --- Collecting, analyzing and interpreting numerical data in one and two variables--- Representing data in a variety of graph types including: circle, bar line plot & histogram --- Presenting data to an audience and fielding questions from the audience. Throughout the course applying these concepts to mathematical and real world problems is emphasized.Students will also investigate conditional probability and rules of probability so they can use probability to make decisions.	Successful completion of an algebra 2 course and teacher recommendation. A graphing calculator is required for this course.	Full Year - 5 Credits	11, 12	CP	Business, CCC, Global, STEAM	All years	A1, A2, A3, A4, S1, S2
Math	Intro Calculus w Applications (CP)	1524	The course incorporates topics from pre-calculus and allows students to refine their algebra skills and techniques and extend their knowledge of analytic geometry. Students will develop an understanding of the processes of differentiation and integration. Students will investigate limits and continuity from an intuitive perspective. Students will work with real world applications to model the use of calculus to solve problems from business, economics, management, science and social sciences.	Successful completion of a full year pre-calculus course and recommendation of current math teacher. A graphing calculator is required for this course.	Full Year - 5 Credits	12	CP	STEAM	All years	A1, A2, A3, A4, S1, S2
Music	Acting I	2961	Students are instructed in the fundamentals of theatre with a focus on acting. Students will explore and practice vocal technique, movement, dramaturgy, playmaking, theatrical genres, improvisation, mime, scene analysis, audition technique, and more. The course will culminate in a public performance/demonstration.		Semester - 2.5 Credits	9,10,11,12	CP	Media & Communication, Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Musical Theatre	2962	In this performance-based course, students will learn the history, theory, and practice fundamental concepts and techniques of different genres of theatre, including Musical Theatre, Advanced Acting & Directing, and Improv Theatre. Students will build skills in creativity, confidence, public speaking, translating an artistic vision to the stage, healthy risk-taking, vocal expression, movement, and more.		Half Year - 2.5 Credits	9,10,11,12	CP	Visual & Performing Arts	All Years	A1,A3,S1,S2,S3,C1,C2,C3

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Music	Concert Band (CP)	8121	Concert Band rehearses every day for a full year. During the school year the Concert Band performs at concerts, parades, and various school assemblies. Attendance at all performances is mandatory. Grades are based on attendance and participation. Extra Credit can be earned by performing quarterly playing tests.	All students interested in enrolling in Concert Band are required to demonstrate for the Dept. Head an ability to read musical notation prior to enrollment.	Full Year - 5 Credits	9,10,11,12	CP	Global, Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Concert Band (H)	8123	Concert Band Honors meets concurrently with Concert Band CP. Enrollment is open only to students who receive Dept Head recommendation. Attendance at all performances is mandatory. Grades are based on attendance, participation, quarterly playing tests, and quarterly writing assignments. Students enrolled in Concert Band Honors are strongly encouraged to take private music lessons on their band instrument with a qualified instructor.	Students must be recommended by the band director for Honors Credit	Full Year - 5 Credits	10,11,12	H	Global, Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Music Theory I	8301	Students enrolled in Music Theory I will learn about scales and notes, and diatonic harmony.		Quarter Course - 1.25 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Music Theory II	8302	Students enrolled in Music Theory II will continue to explore and use the information and techniques introduced in Music Theory I. Students will learn about part writing and correct voice leading. Singing is also a major part of this course and students are expected to sight sing using the solfege syllables. It is recommended that students enrolled in Music Theory II should have a strong ability to work independently. Music Theory I is a mandatory prerequisite for enrollment.		Quarter Course - 1.25 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Music Theory III	8303	Students enrolled in Music Theory III will continue to explore and use the information and techniques introduced in Music Theory I and II. Students enrolled in Music Theory III must demonstrate a strong ability to work independently and will be required to provide peer support and tutoring to students enrolled in Music Theory I and II. Grades are based on attendance, participation and the final project.	Music Theory I and II are mandatory prerequisite for enrollment in Music Theory III.	Quarter Course - 1.25 Credits	9,10,11,12	H	Visual & Performing Arts	Not running	A1, A3, S1, S2, S3, C1, C2, C3

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Music	Singers (CP)	8401	Singers is the major vocal group in the Senior High School. The literature selected will enable students to sing a wide variety of music. All students who enjoy singing are invited to join this group. No audition is required. Grading is based on class performance and attendance at all chorus concerts.		Semester - 2.5 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Singers (H)	8402	Singers Honors is a select vocal ensemble that meets concurrently with Singers and as peer mentors with Eighth Grade Chorus. Students must pass an audition to enroll in Singers H. Students are also required to attend two after school rehearsals. Students enrolled in Singers H perform as members of Singers as well as a smaller independent vocal ensemble. Grading is based on class participation, attendance at all concerts and rehearsals, and other criteria as developed by the conductor.		Semester - 2.5 Credits	9,10,11,12	H	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Chamber Choir (H)	8421	Chorale is a select vocal ensemble. Members must pass an audition to prove their ability to sing independently and Department Head approval is required. Auditions are held in the spring. Literature is primarily a cappella, chamber, vocal music with an emphasis on quartet and quintet independent singing. Freshman students enrolled in Chorale will take Music Theory for the first semester in the place of Singers. Grading is based on class performance and attendance at all performances.		Full Year - 5 Credits	9,10,11,12	H	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Chorale (H)	8431	Chorale is a select vocal ensemble. Members must pass an audition to prove their ability to sing independently and Department Head approval is required. Auditions are held in the spring. Literature is primarily a cappella, chamber, vocal music with an emphasis on quartet and quintet independent singing. Freshman students enrolled in Chorale will take Music Theory for the first semester in the place of Singers. Grading is based on class performance and attendance at all performances.		Full Year - 5 Credits	9,10,11,12	H	Global, Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Ladies' Chorale (H)	8441	Chorale is a select vocal ensemble. Members must pass an audition to prove their ability to sing independently and Department Head approval is required. Auditions are held in the spring. Literature is primarily a cappella, chamber, vocal music with an emphasis on quartet and quintet independent singing. Freshman students enrolled in Chorale will take Music Theory for the first semester in the place of Singers. Grading is based on class performance and attendance at all performances.		Full Year - 5 Credits	9,10,11,12	H	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3

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Music	Wind Ensemble	8521	The Northeast Massachusetts Youth Orchestras (NMYO) offer a Wind Ensemble experience for young musicians in the area. The Wind Ensemble rehearses at Masco on Mondays after school. Students interested in auditioning should refer to the NMYO website at nmyo.org. Experience playing a wind or brass instrument is required. An audition is required for enrollment.	Previous playing experience on woodwind, brass or percussion instrument is required. An audition is required. Auditions are scheduled through NMYO at nmyo.org.	Full Year - 5 Credits	9, 10, 11, 12		Visual & Performing Arts	All Years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Public Speaking	8524	Students will practice presentation skills through prepared speeches on various topics that interest them (Speech to Persuade, Speech to Inform, Speech to Entertain). Emphasis will be placed on vocal quality and clarity, body language, professionalism, writing skills, and effective speech structure. Students will build confidence through daily practice and be able to apply skills learned to future classes, job interviews, college applications, and more.		Half Year - 2.5 Credits	9,10,11,12	CP	Visual & Performing Arts	All Years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Orchestra	8526	The Northeast Massachusetts Youth Orchestras (NMYO) offer an orchestral experience to young musicians in the area. The Orchestra rehearses at Masco on Mondays after school. Students interested in auditioning should refer to the NMYO website at www.nmyo.org. Experience playing a string or wind instrument is required. An audition is required for enrollment.	Previous playing experience on string, woodwind, brass or percussion instrument is required. An audition is required. Auditions are scheduled through NMYO at www.nmyo.org.	Full Year - 5 Credits	9, 10, 11, 12		Visual & Performing Arts	All Years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Jazz Choir (CP)	8621	This voice ensemble performs jazz, Broadway, and rock. Emphasis is on small group singing, solo independence and choreography. Rehearsals are scheduled on Wednesday evenings from 3:00 to 5:00 p.m. Concert Band or Singers is a co-requisite for this class.	Wednesday, 3:00-5:00 p.m. Full Year	Semester - 2.5 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Music	Jazz I (H)	8631	Jazz I performs a variety of musical styles including Jazz, Swing, Latin, and Rock. The instruments used in Jazz I include all the woodwind and brass instruments from the concert band as well as percussion, string/electric bass, piano and guitar. Rehearsals are scheduled one evening a week. Attendance at all performances and is mandatory. Grades are based on attendance and participation. Department Head approval is required.	Wednesday 6:00-8:00 p.m - Full Year	Semester - 2.5 Credits	9,10,11,12	H	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3



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Music	Music Lesson	8901	This is an independent study program designed to recognize those students who are motivated to advance their musical skills and knowledge by taking private music lessons. Individual instruction will include the study in method books (scales, etudes, etc.) and solos to develop musical and technical skills. Private lessons are taught on a weekly basis after the regular school day. For additional information, including fees and application, contact the Music Office.		Quarter Course - 1.25 Credits	9,10,11,12	CP	Visual & Performing Arts	All years	A1, A3, S1, S2, S3, C1, C2, C3
Science, Technology, & Engineering	Prometheus Unleashed: Science and Society	2013	This co-taught course takes an interdisciplinary approach, combining scientific and historical content. Students learn about scientific discoveries and historical events in isolation, which inhibits understanding of cause/effect relationships between natural and social sciences. This course provides students with a holistic, approach to understanding the world around them while challenging them to think critically across disciplines. Topics may include the atom bomb, chocolate, and black plague.		Semester - 2.5 Credits	11,12	CP	CCC, Global, STEAM	21-22	A1,A3,A4,S1,S2,C1,C2
Science, Technology, & Engineering	Prometheus Unleashed: Science and Society	2014	This co-taught course takes an interdisciplinary approach, combining scientific and historical content. Students learn about scientific discoveries and historical events in isolation, which inhibits understanding of cause/effect relationships between natural and social sciences. This course provides students with a holistic, approach to understanding the world around them while challenging them to think critically across disciplines. Topics may include the atom bomb, chocolate, and black plague.		Semester - 2.5 Credits	11,12	H	Global, STEAM	21-22, 23-24	A1,A3,A4,S1,S2,C1,C2
Science, Technology, & Engineering	Forensic Science	3021	Forensic science is an interdisciplinary science that includes: biology, anatomy/physiology, chemistry and physics content. 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 may include fingerprinting, handwriting analysis, ballistics, blood typing, hair/fiber examination and DNA analysis. Case studies and current events will be explored.	Successful completion of a full year of Biology. This course counts towards the lab science requirement for graduation.	Semester - 2.5 Credits	11,12	CP	STEAM	All years	A1, A3, A4, S1, S2, C2
Science, Technology, & Engineering	Science 9 (CP-2)	3111	This course prepares students for the Introductory Physics MCAS Exam and is aligned with the Massachusetts content standards. Topics include motion and forces, conservation of energy and momentum, waves, electromagnetism, electromagnetic radiation, and heat transfer. In this course students develop conceptual understanding of physics topics by while incorporating science skills and practices.	Recommendation of eighth grade science teacher.	Full Year - 5 Credits	9	CP2		All Years	A1,A2,A3,S1,S2

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Science, Technology, & Engineering	Science 9 (CP)	3121	Science 9 is an introductory physics course focusing on kinematics, momentum, waves, electromagnetism, and heat. Students use scientific inquiry skills by designing and conducting scientific investigations that require students to ask questions, make observations, formulate hypotheses, and analyze data. Students will communicate results of laboratory experiments in classroom discussions and lab reports. This course prepares students for the introductory physics MCAS exam.	This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	9	CP		All years	A1, A2, A3, S1, S2
Science, Technology, & Engineering	Biology (CP-2)	3211	This course is a survey of biology with emphasis on understanding biological issues that are necessary for informed citizenship as well as those that relate to personal well being. The units of study in this course align with the four content areas of the Massachusetts State Framework for Biology: molecules to organisms, ecosystems, heredity and biological evolution. This course prepares eligible students for the Biology MCAS exam.	This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10,11	CP2		All years	A1, A3, S1, S2, C1
Science, Technology, & Engineering	Biology (CP)	3221	The units of study in this course align with the four content areas of the Massachusetts State Framework for Biology: molecules to organisms, ecosystems, heredity and biological evolution. Students will apply the eight science and engineering practices in a variety of content related laboratory exercises. These experiences will enable students to assess and understand the living world and their place in it. This course prepares eligible students for the Biology MCAS exam.	This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10	CP		All years	A1, A3, S1, S2, C1
Science, Technology, & Engineering	Chemistry (H)	3231	This is a rigorous course for high achieving science students with strong analytical and mathematical skills. The course moves at a faster pace and provides more advanced treatment of the topics taught in Chemistry CP. Students must also demonstrate mastery of prerequisite math skills through a diagnostic assessment.	Must have completed Honors Algebra II or be concurrently enrolled in Honors Algebra II. Minimum of B- in Biology H or minimum of an A- in Biology CP. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10,11	H	STEAM (after 2 years of science)	All years	A1, A2, A3, A4, S1, S2
Science, Technology, & Engineering	Conceptual Chemistry (CP)	3315	Conceptual chemistry focuses on basic chemistry concepts. Students explore concepts through laboratory experiences and collaborative problem solving. Students should be able to work independently and in group settings. There is less emphasis on the mathematical aspects of chemistry, as compared to a traditional chemistry course, but basic algebraic skills are necessary. Conceptual chemistry is appropriate for college bound students who are not planning to major in science or engineering.	This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10,11,12	CP	STEAM (after 2 years of science)	All years	A1, A2, A3, S1, S2, C1, C2

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Science, Technology, & Engineering	Chemistry (CP)	3321	Students explore chemistry concepts through laboratory experiences and achieve conceptual mastery through class discussions and collaborative problem solving. Students with strong algebra skills are more successful in CP Chemistry.	Minimum requirements are: Grades of C or higher in Algebra I. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10,11,12	CP	STEAM	All years	A1, A2, A3, S1, S2
Science, Technology, & Engineering	Biology (H)	3331	This course includes a survey of the diversity, complexity and interconnectedness of life by exploring major topics in biology. These topics are: molecules to organisms, ecosystems, heredity and biological evolution. Success in this course requires a strong, independent work ethic as well as advanced reading and writing skills. Honors biology emphasizes investigative, inquiry based laboratory experiences and prepares students for the Biology MCAS Exam.	Students must have maintained a minimum of an A- in current science course. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	9	H		All years	A1, A2, A3, A4, S1, S2
Science, Technology, & Engineering	Physics (CP)	3421	This course applies science and engineering practices in laboratory experiments and demonstrations to guide student understanding of the physical laws fundamental to all sciences. Course topics include motion in one and two directions, projectile motion, momentum, work and energy, and introductory wave theory, light, and sound. Students planning to major in engineering in college should consider taking Physics H.	This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	12	CP	STEAM	All years	A1, A2, A3, S1, S2
Science, Technology, & Engineering	Biotechnology (CP)	3423	Biotechnology explores technologies at the molecular and cellular level. In this course, students will explore the techniques used in biotechnology and its implications through laboratories, readings and discussions. The course examines applications of biotech that have contributed to industrial processes, agriculture, forensics and medicine as well as its role in managing environmental wastes and pollution. Students will examine potential careers and emerging applications in biotechnology.	A minimum grade of B- in Biology and Chemistry. This course is also offered for Honors credit. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	CP	Global, STEAM	All years	A1, A3, A4, S1, S2, C1, C2
Science, Technology, & Engineering	Physics (H)	3431	This course provides a systematic introduction to the five principles of physics: mechanics, waves, electricity, magnetism, and light. Students solve problems quantitatively using a non-calculus based college text and related laboratory activities. This course is more intensive and analytical than Physics CP. Students are expected to be highly motivated and self starters. Students may enroll in Physics H or AP, but not both.	A minimum grade of C+ in Precalculus H and C+ in Chemistry H or A- in Chemistry CP. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	12	H	STEAM	All years	A1, A2, A3, S1, S2

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Science, Technology, & Engineering	Biotechnology (H)	3432	Biotechnology explores technologies at the molecular and cellular level. In this course, students will explore the techniques used in biotechnology and its implications through laboratories, readings and discussions. The course examines applications of biotech that have contributed to industrial processes, agriculture, forensics and medicine as well as its role in managing environmental wastes and pollution. Students will examine potential careers and emerging applications in biotechnology.	A minimum grade of A- in Biology and Chemistry. This course counts towards the lab science requirement for graduation. This course is also offered for CP credit.	Full Year - 5 Credits	11,12	H	Global, STEAM	All years	A1, A3, A4, S1, S2, C1, C2
Science, Technology, & Engineering	AP Chemistry	3441	This is an advanced, second year course for students considering a college major in science or engineering. AP Chemistry provides a thorough treatment of the chemistry topics as outlined in the College Board approved AP Chemistry syllabus. Students enrolled in AP Chemistry are expected to prepare for and take the AP Chemistry and SAT II Chemistry exams.	Minimum grade of B in Chemistry H or a A in Chemistry CP and minimum grade of B+ in Honors Algebra II with concurrent enrollment in Honors Pre-calculus. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	AP	STEAM	All years	A1, A2, A3, S1, S2
Science, Technology, & Engineering	AP Physics	3461	This course provides thorough coverage of mechanics and an introduction to wave theory using a calculus based college physics text. Coursework employs advanced mathematics, including calculus, where appropriate. This course will prepare students to take the AP Physics C Exam in Mechanics.	Students should have completed, or be enrolled in Calculus. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	12	AP	STEAM	All years	A1, A2, A3, S1, S2
Science, Technology, & Engineering	Human Anatomy & Physiology (H)	3523	This is a rigorous biology course for students seeking challenging, engaging experiences as they learn about the precise structures and functions of the human body. Students will learn the fundamental concepts of human anatomy, the inner workings of human physiology, and their relationships to homeostasis. Major topics include an orientation to the human body, tissues and form and function of the body systems. Participation in dissections is required.	Minimum grade of B- in Biology H and Chemistry H or A- in Biology CP and Chemistry CP. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	H	STEAM, Visual & Performing Arts	All years	A1, A3, A4, S1, S2
Science, Technology, & Engineering	Sustainability and Food Ed	3525	This interdisciplinary, project-based science course engages students in questions of how food helps us make meaning of the world and mediates our place in the environment. Students will complete a capstone project that addresses a sustainability issue in the school or greater community. While implementing solutions, students will engage in project management skills and may collaborate with community partners to bring about positive change. Course helps prepare students to be global citizens.	Minimum grade of B- in Biology. This course counts towards the lab science requirement for graduation.	Full year -5.0 credits	11, 12	CP	STEAM, Global, CCC	All years	A1, A3, A4, S1, S2, C1, C2

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Science, Technology, & Engineering	AP Biology	3541	This is a rigorous college level biology course intended for students interested in majoring in the biological sciences. Students will explore the four major themes of biology as prescribed by the College Board: evolution, energy, information transfer, and ecology. Inquiry based investigations will require students to remain in class until 3:00 pm, periodically. Students are REQUIRED to contact the instructor for their summer assignment and are expected to take the AP Biology exam.	Minimum grade of A- in both Biology CP and Chemistry CP or B in both Biology H and Chemistry H. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	AP	STEAM	All years	A1, A2, A3, A4, S1, S2
Science, Technology, & Engineering	Environmental Science (H)	3611	Environmental Science examines humanities relationship to the natural world. This course will increase student knowledge of today's environmental challenges while cultivating scientific thinking skills. The following will be studied: pollution, natural resources, energy (sources/consumption), land/water use, population/ecosystem dynamics, biogeochemical cycles, earth systems and global changes. Course is taught concurrently with AP Environmental Science. Students may elect to take the AP exam.	Minimum grade of A- in Biology CP or B- in Biology H. Chemistry is recommended but not required. Students who have not completed a chemistry course should meet with the department head. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	10,11,12	H	Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C2
Science, Technology, & Engineering	Environmental Science (CP)	3621	Environmental Science examines humanities relationship to the natural world. This course will increase student knowledge of today's environmental challenges while cultivating scientific thinking skills. The following will be studied: pollution, natural resources, energy (sources/consumption), land/water use, population/ecosystem dynamics, biogeochemical cycles, earth systems and global changes. Students examine alternative solutions for preventing or resolving environmental issues.	Successful completion of a full year Biology course. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	CP	Global, STEAM	All years	A1, A3, A4, S1, S2, C1, C3
Science, Technology, & Engineering	AP Environmental Science	3631	Prepares students for the AP Exam in Environmental Science and follows a syllabus approved by the College Board. This course will increase student knowledge of today's environmental challenges while cultivating scientific skills. The following will be studied: pollution, natural resources, energy (sources/consumption), land/water use, population/ecosystem dynamics, biogeochemical cycles, earth systems & global changes. Students are expected to take the AP Environmental Science exam.	Minimum grade of A- in Biology H and Chemistry CP or B- in Biology H and Chemistry H. This course counts towards the lab science requirement for graduation.	Full Year - 5 Credits	11,12	AP	Global, STEAM	All years	A1, A2, A3, A4, S1, S2, C2
Science, Technology, & Engineering	STEAMworks: Science of the 21st Century (CP)	3712	This lab based course will allow you to explore real world problems, by creating, applying and communicating solutions that have real life applications. Sample topics may include: climate change, alternative energy, green technologies, meteorology, machines in our lives, marine science and zoology. Are you interested in STEAM courses or careers? If so, then this semester course is for you.	Consider pairing two semesters of this course to satisfy a full year of lab science.	Semester-2.5 credits		10, 11, 12	STEAM	All Years	A1, A3, A4, S1, S2, C1, C2

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Science, Technology, & Engineering	STEAMworks: Science of the 21st Century (H)	3713	This lab based course will allow you to explore real world problems, by creating, applying and communicating solutions that have real life applications. Sample topics may include: climate change, alternative energy, green technologies, meteorology, machines in our lives, marine science and zoology. Are you interested in STEAM courses or careers? If so, then this semester course is for you.	Consider pairing two semesters of this course to satisfy a full year of lab science.	Semester-2.5 credits	10, 11, 12	H	STEAM	All Years	A1, A3, A4, S1, S2, C1, C2
Science, Technology, & Engineering	Computer-Aided Modeling	6521	This course introduces fundamental concepts, principles, and practices of 2D and 3D design, digital modeling, assemblies, rendering, and rapid prototyping. Students will also learn about 3D printing and 3D animation. Software platforms include Onshape, SolidWorks and Blender.		Semester - 2.5 Credits	9,10,11,12	CP	Computer Science, STEAM	All years	A1, A2, A3, A4, S1, C1
Science, Technology, & Engineering	Pre-Engineering	6931	In this course, students investigate many areas of the engineering world through hands-on projects and activities. Students will be challenged to design solutions to real engineering problems. They will learn about design and construction practices as well as tools and materials needed to solve engineering problems. Major portions of the course will involve working on class projects to learn about the demands and opportunities in the fields of technology and engineering.	This course counts towards the lab science requirement for graduation.	Semester - 2.5 Credits	10,11,12	CP	STEAM	All years	A1, A2, A3, A4, S1, C1
Science, Technology, & Engineering	Engineering	6941	This semester elective is a project based course intended to teach students the fundamentals of different types of engineering. Students will learn engineering skills through applications of mechanical, civil, aeronautical and electrical engineering. Success in this course is directly related to students having a strong work ethic.	This course counts towards the lab science requirement for graduation.	Semester - 2.5 Credits	11,12	H	Computer Science, STEAM	All years	A1, A2, A3, A4, S1, C1
Science, Technology, & Engineering, Math	Mission Mars: An Introduction to STEAM	3122	Have you ever thought about the challenges humans will face when traveling or colonizing the red planet? If so, this project based learning experience was designed for you. In this course you will design, test and evaluate models with real life applications that integrate science, technology, engineering, art and mathematics. We will also explore various careers associated with this mission. We are going to Mars, are you in?	Credit earned in this course does not count toward the 15 credit graduation requirement in math or science	Semester - 2.5 Credits	9, 10	CP	STEAM	All years	A1, A2, A3, A4, S1, S2

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Soc. Stud.	Gender Studies	2010	Students will explore the role that gender plays in society and our everyday lives. We will analyze and discuss gender as an historical, contextual, and intersectional concept that lies at the crossroads of race, class, sexuality, citizenship, age, size, and ability. We will additionally situate gender within contemporary U.S. society, a cross-cultural and transnational landscape where identities are relational, institutional, and continually shifting social constructs.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C1, C2
Soc. Stud.	Prometheus Unleashed: Science and Society	2013	This co-taught course takes an interdisciplinary approach, combining scientific and historical content. Currently, students learn about scientific discoveries and historical events in isolation, which inhibits their understanding of cause/effect relationships in natural science and social science. This course connects the two.	Topics may include: history of modern computers and technology, The Black Death, Naturalism, the eugenics movement and the science and history of chocolate.	Semester - 2.5 Credits	11,12	CP	CCC, Global, STEAM	21-22	A1,A3,A4,S1,S2,C1,C2
Soc. Stud.	Prometheus Unleashed: Science and Society	2014	This co-taught course takes an interdisciplinary approach, combining scientific and historical content. Currently, students learn about scientific discoveries and historical events in isolation, which inhibits their understanding of cause/effect relationships in natural science and social science. This course connects the two.	Topics may include: history of modern computers and technology, The Black Death, Naturalism, the eugenics movement and the science and history of chocolate.	Semester - 2.5 Credits	11,12	H	CCC, Global, STEAM	21-22	A1,A3,A4,S1,S2,C1,C2
Soc. Stud.	Gender Studies	2015	Students will explore the role that gender plays in society and our everyday lives. We will analyze and discuss gender as an historical, contextual, and intersectional concept that lies at the crossroads of race, class, sexuality, citizenship, age, size, and ability. We will additionally situate gender within contemporary U.S. society, a cross-cultural and transnational landscape where identities are relational, institutional, and continually shifting social constructs.		Semester - 2.5 Credits	10,11,12	H	CCC	All years	A1, A3, A4, S1, S2, C1, C2
Soc. Stud.	World History (1450-1919)	2120	In World History, students will thematically explore major world developments and cultures from the Renaissance to World War One. A goal of this course will be the use of various problem-solving and critical-thinking strategies to solve historical problems. Students will be required to assume the active role as a participant in history engaged individually and cooperatively in active learning. Emphasis will be placed on multiculturalism, current events, and the world's relevance to our lives.		Full Year - 5 Credits	9	CP		All years	A1, A3, A4, S1, S2, C2

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Soc. Stud.	World History (1450-1919)	2130	In World History, students will thematically explore major world developments and cultures from the Renaissance to World War One. A goal of this course will be the use of various problem-solving and critical-thinking strategies to solve historical problems. Students will be required to assume the active role as a participant in history engaged individually and cooperatively in active learning. Emphasis will be placed on multiculturalism, current events, and the world's relevance to our lives.		Full Year - 5 Credits	9	H		All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	United States History (1800-1919)	2220	This course builds upon the foundations of American democracy, presenting students with a sequential development of the settlement, growth, and expansion of the territory now known as the United States from the Early National period (1800) through the early twentieth century. Students will explore fundamental concepts of American government, such as republicanism, federalism, separation of powers, and checks and balances, which endure despite political, economic, and social challenges.	Major topics of study include the rise of the two-party system, westward expansion, the Civil War, Reconstruction, industrialization, immigration, and the Progressive Era.	Full Year - 5 Credits	10	CP		All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Digital Society	2228	Students today are living in an age of constant digital connectivity. Digital technology has completely transformed our societal norms and given us new lenses through which we see ourselves and the world. In this course, students will trace the history and development of digital technology, evaluate the rules for conduct and communication in the 21st century, and explore the psychological and sociological implications of our new digital culture.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global, Media & Communication	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	United States History (1800-1919)	2230	This course builds upon the foundations of American democracy, presenting students with a sequential development of the settlement, growth, and expansion of the territory now known as the United States from the Early National period (1800) through the early twentieth century. Students will explore fundamental concepts of American government, such as republicanism, federalism, separation of powers, and checks and balances, which endure despite political, economic, and social challenges.	Major topics of study include the rise of the two-party system, westward expansion, the Civil War, Reconstruction, industrialization, immigration, and the Progressive Era.	Full Year - 5 Credits	10	H		All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Digital Society	2237	Students today are living in an age of constant digital connectivity. Digital technology has completely transformed our societal norms and given us new lenses through which we see ourselves and the world. In this course, students will trace the history and development of digital technology, evaluate the rules for conduct and communication in the 21st century, and explore the psychological and sociological implications of our new digital culture.		Semester - 2.5 Credits	10,11,12	H	CCC, Global, Media & Communication	All years	A1, A3, A4, S1, S2, C2



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Soc. Stud.	American Studies: Voices of Protest and Progress (CP)	2312	This interdisciplinary English & American History class will examine the question, What does it mean to be an American? Students explore American themes in literature, history, art, music and philosophy. Students will demonstrate their understanding through critical thinking, source analysis, historical research, technology integrated projects and civil discourse. The course is a team taught, double period class, which fulfills course requirements in junior year English & American History II.		Full Year - 10 Credits	11	CP	CCC	All years	A1, A2, A3, S1, S2, C2
Soc. Stud.	Modern United States and World History (1919- present)	2320	This course will be a thematic exploration of major world developments beginning in the 1920s and leading up to 9/11. Students will explore the political, economic and social issues through the use of various problem-solving and critical-thinking strategies and apply them to historical problems. This course will develop a foundation for students to become active, responsible participants in our diverse and interdependent world.		Full Year - 5 Credits	11	CP		All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Modern United States and World History (1919- present)	2330	This course will be a thematic exploration of major world developments beginning in the 1920s and leading up to 9/11. Students will explore the political, economic and social issues through the use of various problem-solving and critical-thinking strategies and apply them to historical problems. This course will develop a foundation for students to become active, responsible participants in our diverse and interdependent world.		Full Year - 5 Credits	11	H		All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	American Studies: Voices of Protest and Progress (H)	2332	This interdisciplinary English & American History class will examine the question, What does it mean to be an American? Students explore American themes in literature, history, art, music and philosophy. Students will demonstrate their understanding through critical thinking, source analysis, historical research, technology integrated projects and civil discourse. The course is a team taught, double period class, which fulfills course requirements in junior year English & American History II.	Requires Teacher Recommendation	Full Year - 10 Credits	11	H	CCC	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	AP United States History	2441	This college --- level course involves a chronological, in --- depth study of American History from 1492 to the present. The course requires solid essay writing skills, note taking, numerous readings, critical thinking tasks, independent research, and classroom discussion. The program is designed to challenge the student academically and to facilitate transition from the secondary school to college. The expectations and grading will reflect the rigor of an A.P. program.		Full Year - 5 Credits	11,12	AP	CCC	All years	A1, A3, A4, S1, S2, C2

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Soc. Stud.	AP European History	2443	This college --- level course requires students to possess solid essay writing, document analysis, critical thinking, and discussion skills. The student must be a responsible student willing to undertake independent research. The program will assist students in the transition to college. In addition to providing a basic exposure to the factual narrative, the goals are to develop an understanding of some of the principal themes in modern European History (1450 to present).		Full Year - 5 Credits	10,11,12	AP	CCC, Global	22-23	A1, A3, A4, S1, S2, C2
Soc. Stud.	Economics: How America Works	2502	This course will focus on how the U.S. economy works and the challenges Americans face as we compete in a global economy. Students will become familiar with basic economic principles, including supply and demand, the workings of the stock market, economic cycles, and foreign trade. Students will read current periodicals, use computer models, and track the economy in order to engage in current debates on economic policy.		Semester - 2.5 Credits	11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Economics: How America Works	2503	This course will focus on how the U.S. economy works and the challenges Americans face as we compete in a global economy. Students will become familiar with basic economic principles, including supply and demand, the workings of the stock market, economic cycles, and foreign trade. Students will read current periodicals, use computer models, and track the economy in order to engage in current debates on economic policy.		Semester - 2.5 Credits	11,12	H	CCC, Computer Science, Global,	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Perspectives in US History I	2510	This course examines the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras, exploring the basic concepts of American democracy and government, such as popular sovereignty, federalism, separation of powers, and individual rights. Students learn about westward expansion, the establishment of political parties, and the growth of sectional conflict. The class is tailored for students with language based learning disabilities.		Full Year - 5 Credits	10	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Perspectives in World History	2511	This course focuses on world historical issues from 1800 to the present. Students will actively analyze the events that have shaped our present world, such as world war, depression, totalitarianism, decolonization, and economic interdependence. This is a co-taught class with a Special Education teacher and a Social Studies content based teacher; it is modified extensively to meet the needs of individual students. The class is tailored for students with language based learning disabilities.		Full Year - 5 Credits	9	CP		All years	

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Soc. Stud.	Perspectives in US History II	2512	This course examines the emergence of America as an industrial, economic, and world political power and the influence of that growth on American culture. Significant emphasis will be placed on America in the post World War era. This is a co-taught class with a Special Education teacher and a Social Studies content based teacher; it is modified extensively to meet the needs of individual students. The class is tailored for students with language based learning disabilities.		Full Year - 5 Credits	11	CP	Visual & Performing Arts	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	The 1960s	2541	This course examines the political, social, and cultural climate of the 1960s. Using music, video, literature, and documents, students will examine topics such as the Presidency and the assassination of JFK, the fight for civil rights for minority groups, the Vietnam Conflict, the counterculture, and the Watergate scandal. Key figures in art, literature, politics, music, athletics, and radical movements of the time and their influence in shaping American society will also be explored.		Semester - 2.5 Credits	11,12	H	CCC	All years	A1, A3, A4, S1, C2
Soc. Stud.	The 1960s	2542	This course examines the political, social, and cultural climate of the 1960s. Using music, video, literature, and documents, students will examine topics such as the Presidency and the assassination of JFK, the fight for civil rights for minority groups, the Vietnam Conflict, the counterculture, and the Watergate scandal. Key figures in art, literature, politics, music, athletics, and radical movements of the time and their influence in shaping American society will also be explored.		Semester - 2.5 Credits	11,12	CP	CCC	All years	A1, A3, A4, S1, C2
Soc. Stud.	AP United States Government and Politics	2543	This college --- level course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence --- based arguments.		Full Year - 5 Credits	12	AP	CCC, Global, Media & Communications	All years	A1, A2, A4, S1, S2, C2
Soc. Stud.	Introduction to Psychology	2661	Introduction to Psychology will survey the field of psychology. Its purpose is to introduce students to the study of psychology and allow students to see how psychology can be applied to their own behavior to help them understand why they do what they do. The course will provide for this understanding through worksheets, class discussions, experiments and simulations, videos and student research. The topic of human sexuality and its influence on one's personality is also explored.		Semester - 2.5 Credits	11,12	CP	CCC	All years	A1, A3, A4, S1, S2, C2

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Soc. Stud.	Experiencing Psychology	2662	The field of Psychology helps us to better understand who we are. Using the tools of modern psychology, students will explore the world of thought, personality, identity, learning and adjustment. The class will be primarily experience -- based in order to introduce students to the concepts of psychology which can be explored in more depth in later years in the Introduction to Psychology and AP Psychology courses.		Semester - 2.5 Credits	9,10	CP	CCC	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Introduction to Sociology	2721	This course will explore the behavioral science of sociology. Students will study group behavior and group dynamics and examine how the individual mutually affects and is affected by the social environment. The course will examine the sociological research process, major sociological principles and theorists. In addition, emphasis will be placed on applying these principles to understanding everyday situations using readings, case studies, class discussion, simulation, and experimentation.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Introduction to Sociology	2723	This course will explore the behavioral science of sociology. Students will study group behavior and group dynamics and examine how the individual mutually affects and is affected by the social environment. The course will examine the sociological research process, major sociological principles and theorists. In addition, emphasis will be placed on applying these principles to understanding everyday situations using readings, case studies, class discussion, simulation, and experimentation.		Semester - 2.5 Credits	10,11,12	H	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Introduction to Geography	2731	As an introduction to geography, this course is designed to help students develop a critical awareness of the dynamic world in which we live. Students will explore major historical and current problems affected by human interaction with the earth's surface, gaining skills in problem solving and an expanded knowledge of the field of geography. A major emphasis in the course will be an experiential approach to a series of issues presented for student analysis.		Semester - 2.5 Credits	9 & 10	H	CCC,Global	21-22	A1, A3, A4, S1, S2, C2
Soc. Stud.	AP Human Geography	2741	This course will deal with the major themes of geography as described by the National Geographic Association. Students will be exposed to issues of place, political, social and economic geography. They will also be introduced to modern technology-based tools used by the geographer. A major emphasis in the course will be in solving current and historical problems affected by human interaction with the earth's surface.		Full Year - 5 Credits	11,12	AP	CCC, Global	All years	A1, A3, A4, S1, S2, C2

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Soc. Stud.	Introduction to Geography	2751	As an introduction to geography, this course is designed to help students develop a critical awareness of the dynamic world in which we live. Students will explore major historical and current problems affected by human interaction with the earth's surface, gaining skills in problem solving and an expanded knowledge of the field of geography. A major emphasis in the course will be an experiential approach to a series of issues presented for student analysis.		Semester - 2.5 Credits	9 & 10	CP	CCC, Global	21-22	A1, A3, A4, S1, S2, C2
Soc. Stud.	World Religions	2811	This discussion-based course introduces the academic discipline of religious studies and places a special emphasis on philosophical perspectives of reality, indigenous worldviews, and five major world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam. Taking full advantage of off-campus field trips, guest speakers, and experiential activities, we will explore the dynamic nature of religion and the variety of philosophical and cultural expressions within each of these traditions.		Semester - 2.5 Credits	10,11,12	H	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	World Religions	2821	This discussion-based course introduces the academic discipline of religious studies and places a special emphasis on philosophical perspectives of reality, indigenous worldviews, and five major world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam. Taking full advantage of off-campus field trips, guest speakers, and experiential activities, we will explore the dynamic nature of religion and the variety of philosophical and cultural expressions within each of these traditions.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	AP Psychology	2841	A.P. Psychology is a college --- level course. It is much more theoretical and scientific than Introduction to Psychology and makes more demands on the student for independent study. This course may be taken in addition to Introduction to Psychology or may be taken on its own. This course has a rigorous academic curriculum. It is highly recommended that students wishing to major in Behavioral or Social Sciences take the Statistics Honors course offered by the Math Department.		Full Year - 5 Credits	11,12	AP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Ancient Civilizations	2861	This course focuses on the history of humankind from its earliest beginnings in Africa, to the development of the Mediterranean world, and ending with the collapse of the Roman Empire in the west. If time allows the course examines early culture of Asia focusing primarily on the development China. The course places emphasis on the political, social and economic development of cultures, as well as the hallmarks of civilization, such as religion, music, art and literature.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global	21-22	A1, A3, A4, S1, S2, C2

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Soc. Stud.	Ancient Civilizations	2871	This course focuses on the history of humankind from its earliest beginnings in Africa, to the development of the Mediterranean world, and ending with the collapse of the Roman Empire in the west. If time allows the course examines early culture of Asia focusing primarily on the development China. The course places emphasis on the political, social and economic development of cultures, as well as the hallmarks of civilization, such as religion, music, art and literature.		Semester - 2.5 Credits	10,11,12	H	CCC, Global	21-22	A1, A3, A4, S1, S2, C2
Soc. Stud.	World Studies/International Relations	2881	This course will include an introduction to the key concepts of international relations. A case study approach will be used to analyze current international problems around the world, with an emphasis on current events. The course will involve research work, extensive reading, paper writing, presentations, and debate. Students who have met success in college --- prep level Social Studies courses are encouraged to select this course as a solid foundation for college work.		Full Year - 5 Credits	11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	World Studies/International Relations	2891	This course will include an introduction to the key concepts of international relations. A case study approach will be used to analyze current international problems around the world, with an emphasis on current events. The course will involve research work, extensive reading, paper writing, presentations, and debate. Students who have met success in college --- prep level Social Studies courses are encouraged to select this course as a solid foundation for college work.		Full Year - 5 Credits	11,12	H	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Stories of World War II	2895	Stories of World War II will explore this period of history in greater detail than World or American History survey courses. This class will utilize personal accounts for teaching about the World War II era. Utilizing primary source material drawn from the memoirs and diaries of participants, students will explore World War II through various perspectives and identify how the conflict shaped society and global politics in the postwar world.		Semester - 2.5 Credits	10,11,12	CP	CCC, Global	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Stories of World War II	2896	Stories of World War II will explore this period of history in greater detail than World or American History survey courses. This class will utilize personal accounts for teaching about the World War II era. Utilizing primary source material drawn from the memoirs and diaries of participants, students will explore World War II through various perspectives and identify how the conflict shaped society and global politics in the postwar world.		Semester - 2.5 Credits	10,11,12	H	CCC, Global	All years	A1, A3, A4, S1, S2, C2

Soc. Stud.	Early Childhood Education	6321	This program provides students with the opportunity to learn the basic concepts regarding child development, to learn to be reflective about interactions with children, to gain a sense of how a child experiences the world, and to acquire skills needed for child care responsibilities in a day care program. Students also have the opportunity to learn about career opportunities in the field of Early Education.		Full Year - 5 Credits	10,11,12	CP	CCC	All years	A1, A3, A4, S1, S2, C2
Soc. Stud.	Advanced Placement Art History	7601	AP Art History provides an introductory college level course regardless of whether one has had previous experience in studio art or art history. Students will examine major forms of artistic expression, look at works of art critically, with intelligence and sensitivity, and will then be asked to articulate what they have seen or experienced in those works. The course structure meets the guidelines established by The College Board.		Full Year - 5 Credits	10,11,12	AP	CCC, Global, Visual & Performing Arts	21-22	A1, A3, A4, S1, S2, C1, C2
Social Studies	Biopsychology: The Science of Psychological Disorders	2131	Biopsychology is a co-taught interdisciplinary laboratory science course that explores the complex relationships between biology and psychology. It explains the roles of biological, anatomical, and physiological factors of the human nervous system on neurological and psychological processes. Students will examine the contributions of recent scientific advancements in an effort to understand the origins underlying certain developmental disorders and common psychological issues.		Semester - 2.5 Credits	10,11,12	H	CCC, STEAM	21-22, 23-24	A1, A3, A4, S1, S2, C1, C2
Wellness	Comprehensive Health	2923	Comprehensive Health and Wellness Issues is a one-semester course that provides an overview of issues relating to personal health and wellness. Topics include Disease (Disease Model, Cancer, HIV/AIDS, STDs, Depression, Eating Disorders), Substance Abuse (Alcohol, Addiction, Illicit and Other Abused Drugs, Steroids), Sexuality (Reproductive Anatomy/Function/Dysfunction, Sexual Abuse, Sexual Orientation, Pregnancy & Childbirth, Parenting, Conception and Contraception,	Postponing Sexual Activity) and Wellness (Stress Reduction, Mental Health, Sleep, Nutrition). Students will learn refusal skills, terminology related to health issues, methods of investigating health issues and resources via the internet, and the cause and effect nature of decision making on long and short-term physical and emotional health. Students will be challenged to understand their personal responsibility as independent decision-makers relating to health issues.	Semester - 2.5 Credits	10,11,12	CP		All years	A1, A3, A4, C1, S1
Wellness	Emergency Medical Responder	2924	Emergency Medical Responder is an elective for students interested in learning advanced first aid skills. This course is well-suited for students wishing to pursue employment as lifeguards or in the ski patrol or for those considering careers in law enforcement, medicine, firefighting, or other occupations where advanced layperson medical care may be required. The course provides an overview of human anatomy, personal safety in emergency situations, legal considerations, and the care of sick and	injured patients. Students learn medical terminology, assessment of sick and injured people, and teamwork techniques when dealing with emergency scenes. Upon successful completion of the course, tests, and skill stations, students earn a BLS Healthcare Provider CPR card. Topics include bleeding, shock, wounds, fractures, seizures, scene safety and control, drug overdose, childbirth, sudden illness, poisoning, burns, airway management, infection control.	Semester - 2.5 Credits	9, 10, 11, 12	CP	STEAM	All years	A1, A3, C3, S1

Wellness	EMT-B (H)	2972	Are you considering a career in medicine, law enforcement, firefighting, or any other profession that may require you to manage a health emergency? This course will prepare you to take both State and National exams to become a certified EMT, enabling you to work in hospitals, college EMS services and ambulances where you will assess and care for patients who have become suddenly ill or injured. Topics include scene and patient assessment, airway management, CPR, trauma care, and much more.	For those seeking certification (an option- many students take the class for personal satisfaction without seeking certification), students must attend 95% of classes and maintain an 70% or higher semester average to be eligible. It is recommended that students purchase their own textbook/workbook (~\$200). EMT candidates must be 18 years old to take the State Practical exam, but may take the National Written Exam whenever they successfully	Full Year - 5 Credits	11, 12	H	STEAM	All Years	
Wellness	Introduction To Medicine (H)	2993	How do we know what to believe about medicine and health when so many false claims are publicly presented? What rights should terminally ill patients have regarding their own death and dying? Should patients be forced to get treatment if they are "different"- psychologically or physically- if they don't want it? How do medical professionals care for patients, and how often (and why) do serious mistakes get made?	Through dozens of cases studies, Intro to Medicine examines these and many more fascinating questions about how our physical and mental health issues are perceived and handled by our healthcare system. Nightly readings lead to lively discussions and debates as we examine how our own values and beliefs interact with the science of the human body to form a system that addresses human health- and the financial, political, social influences that affect that system.	Semester - 2.5 Credits		H	STEAM	All years	
Wellness	Freshman Seminar	9101	The Freshman Seminar course will introduce students to a number of life --- long activities that encourage students to remain physically active. Students will engage in a fun, safe, and challenging environment while participating in adventure --- based activities, fitness --- based activities, and individual and team sports.		Semester - 2 Credits	9	CP		All years	A1, C1, S1
Wellness	Fundamental Fitness	9107	Do you want to be stronger, healthier, build self --- esteem, and see your hard work pay off? Fundamental Fitness is the class for you! This course will expose you to a variety of functional exercises that will help you to build muscle and learn how to reach your fitness goals. You will have the opportunity to track and increase your overall fitness throughout the quarter.		Quarter - 1 Credit	9, 10, 11, 12	CP		All years	C1, S1
Wellness	Yoga: Level I	9108	Yoga I introduces students to stress relieving techniques. Students will learn to perform different asanas as well as a variety of meditation practices. This course will attempt to create some balance in your life while improving your strength and flexibility.		Quarter - 1 Credit	9, 10, 11, 12	CP		All years	C1, S1, S2



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Wellness	Team Sports	9109	The Team Sports course will offer students a variety of ways to become physically fit while participating in team oriented sports. The course will help students develop appropriate movement patterns in order to increase speed, coordination, stamina, endurance, agility and accuracy. Students will be assigned team roles (i.e. coach, captain, equipment manager, etc.) that must be performed in order to help their individual teams succeed.		Quarter - 1 Credit	9, 10, 11, 12	CP		All years	C1, S1, S2
Wellness	Advanced Fitness	9110	Advance Fitness, introduces a safe but competitive edge to the strength and conditioning program. Students will focus on tracking and increasing their overall fitness using varied and functional exercises performed at greater intensity. Students will be assessed on the ten physical components of fitness as well as other more commonly used tools. They will then create SMART goals in order to increase overall fitness. Prerequisites: Fundamental Fitness	Depending on the season and equipment availability, students will learn and actively participate in flag football, soccer, basketball, rugby, floor hockey, speedball, ultimate Frisbee, badminton, and tennis. Successful Completion of Fundamental Fitness is required.	Quarter - 1 Credit	10, 11, 12	CP		All years	C1, S1, S2
Wellness	Yoga: Level II	9111	Yoga II is a quarter course that builds on the stress relieving techniques learned in Yoga I. This course introduces challenging core strengthening exercises while continuing to focus on increasing flexibility.	Successful Completion of Yoga I.	Quarter - 1 Credit	9, 10, 11, 12	CP		All years	C1, S1, S2
Wellness	MascoFIT	9112	MascoFIT is a semester-long class that meets once a cycle during homeroom. Students will participate in fitness activities and challenges that will enhance their overall wellness. Students reflect on their experiences and log their progress online.	This course does not count toward the 2 "in school" PE credits required for graduation. However, it will count toward the 2 credits that can be earned via participation in outside activities.	Quarter - 1 Credit	11, 12	CP		20-21 and beyond	C1, S1, S2
Wellness	Project Adventure	9203	The Project Adventure course will offer a challenging rope course with a series of individual and group physical skills. These challenges and skills will require a combination of teamwork and individual commitment. Project Adventure increases a student's sense of self --- confidence, teamwork, cooperation, and decision --- making skills. This course meets every day for a semester.		Semester - 2 Credits	9, 10, 11, 12	CP		All years	C1, S1, S2

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World Language	French I (CP)	4101	The following courses are for those students who want or need to begin the study of a first or second foreign language in high school. These courses are the equivalent of the Grade 7/8 program. Students acquire practical vocabulary and begin to master the essentials of grammar and structure. They develop basic listening, reading, writing and speaking skills, while exploring the geography, history and culture of countries where the language is spoken. Novice High is the proficiency goal.		Full Year - 5 Credits	9	CP	Global	As Needed	A1, C1, C2, C3, S1, S2
World Language	French II (CP)	4111	In these courses, students acquire practical vocabulary and begin to master the essentials of grammar and structure as they develop basic listening, reading, writing and speaking skills. They explore the geography, history and culture of countries where the language is spoken. Intermediate Low is the proficiency goal.		Full Year - 5 Credits	9	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Global Perspectives Spanish I (CP)	4112	This course introduces students to the basic vocabulary and structure of the Spanish language. Content is presented within cultural contexts. English may be used to clarify instruction. Students are encouraged to speak Spanish as they learn basic conversation. Study skills, work habits, and class participation are stressed and weighed appropriately in the grading of the course. This course is modified to meet the needs of individual students. Novice High proficiency level is the goal.	Teacher recommendation required	Full Year - 5 Credits	9	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Global Perspectives Spanish II (CP)	4113	This course continues the progress begun in Global Perspectives Spanish I. Students continue to expand their proficiency and explore the cultures of the Spanish-speaking world through authentic resources. They hear and speak Spanish more frequently as it becomes the language of the classroom. This course is modified to meet the needs of individual students. Novice High is the proficiency goal.	Teacher recommendation required	Full Year - 5 Credits	10	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Global Perspectives Spanish III (CP)	4114	Students further increase their vocabulary & writing skills; develop reading comprehension and cultural understanding. This course is modified to meet the needs of individual students. Intermediate Low is the proficiency goal.	Teacher recommendation is required. This course may be offered in combination with Global Perspectives Spanish IV.	Full Year - 5 Credits	11	CP	Global	All years	A1, C1, C2, C3, S1, S2

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World Language	Global Perspectives Spanish IV (CP)	4115	Students continue to increase their language proficiency and understanding of cultures in the Spanish-speaking world. This course is modified to meet the needs of individual students. Intermediate Mid is the proficiency goal.	Teacher recommendation is required. This course may be offered in combination with Global Perspectives Spanish III.	Full Year - 5 Credits	12	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	French III (CP)	4121	In these courses, students further develop their communicative skills. Cultural exploration continues through readings, videos and authentic sources. Intermediate Mid is the proficiency goal.		Full Year - 5 Credits	10	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	French IV (CP)	4131	This course continues the development of communicative and interpretive proficiency in reading, writing, listening and speaking. Important grammatical topics are reviewed in detail and some advanced concepts are introduced. Course themes focus on using the language in real-world and contemporary situations. Student understanding of Francophone cultures develops through cultural and literary readings, films, and authentic language resources. Intermediate High is the proficiency goal.		Full Year - 5 Credits	11	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	French V (CP)	4141	This course provides students with opportunities to read, write, and speak in the target language at an advanced level. Students explore topics in the language through thematic units and projects. Classic and modern films are used to illustrate the social, intellectual, and historical influence of the language upon the global society. Advanced Low is the proficiency goal.		Full Year - 5 Credits	12	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	French II (H)	4151	In Honors II courses the pace is accelerated and more class time is devoted to discussion in the target language. Acquisition of vocabulary and accurate use of grammar are stressed. An emphasis is placed on oral expression through conversation, discussing films, current events, and thematic cultural topics. Intermediate Low is the proficiency goal.		Full Year - 5 Credits	9	H	Global	All years	A1, C1, C2, C3, S1, S2

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World Language	French III (H)	4161	In these courses, students complete their study of the fundamental grammar of the language, particularly verb and tense usage. The pace is brisk and intense. Outside reading, classroom reports and compositions require students to use the language. Conversation is emphasized and cultural exploration continues. Intermediate Mid is the proficiency goal.		Full Year - 5 Credits	10	H	Global	All years	A1, A4, C1, C2, C3, S1, S2
World Language	French IV (H)	4171	This course is conducted as a precursor to Advanced Placement and is designed for students with a strong command of the language and an interest in French. Course themes focus on contemporary issues, and there is an in-depth study of advanced grammatical concepts. Students expand their French vocabulary and understanding of Francophone cultures through literature, current events, film and authentic resources. Intermediate High is the proficiency goal.		Full Year - 5 Credits	11	H	Global	All years	A1, A4, C1, C2, C3, S1, S2
World Language	French V (AP)	4181	This course is based on the Advanced Placement Program as outlined by the College Entrance Examination Board and prepares students for the Language Advanced Placement Examination. The course is a college level language course. Students are expected to take the AP Exam in May. Students are expected to do graded summer work prior to enrolling in this course. The grade will be reflected as an exam or a project grade in the first quarter. Advanced Low is the proficiency goal.		Full Year - 5 Credits	12	H	Global	All years	A1, A4, C1, C2, C3, S1, S2
World Language	Spanish I (CP)	4301	The following courses are for those students who want or need to begin the study of a first or second world language in high school. These courses are the equivalent of the Grade 7/8 program. Students acquire practical vocabulary and begin to master the essentials of grammar and structure. They develop basic listening, reading, writing and speaking skills, while exploring the geography, history and culture of countries where the language is spoken. Novice High is the proficiency goal.		Full Year - 5 Credits	9	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Spanish II (CP)	4311	In these courses, students acquire practical vocabulary and begin to master the essentials of grammar and structure as they develop basic listening, reading, writing and speaking skills. They explore the geography, history and culture of countries where the language is spoken. Intermediate Low is the proficiency goal.		Full Year - 5 Credits	9	CP	Global	All years	A1, C1, C2, C3, S1, S2

World Language	Spanish III (CP)	4321	In these courses, students complete their study of the basic elements of grammar and structure and continue to develop a rich, practical vocabulary. They further develop their communicative skills as the target language becomes the language of instruction and classroom discussion. Cultural exploration continues through authentic sources. Intermediate Mid is the proficiency goal.		Full Year - 5 Credits	10	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Spanish IV (CP)	4331	This course continues the development of communicative and interpretive proficiency in reading, writing, listening, and speaking. Course themes focus on using the language in the real world and contemporary situations. Cultural understanding develops through the use of literature, film, and other authentic resources. Intermediate High is the proficiency goal.		Full Year - 5 Credits	11	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Spanish V (CP)	4341	These courses provide students with opportunities to read, write and speak in the target language at an advanced level. Students explore topics in the language through thematic units and projects. Classic and modern films are used to illustrate the social, intellectual, and historical influence of the language upon the global society. Advanced Low is the proficiency goal.		Full Year - 5 Credits	12	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Spanish II (H)	4351	In Honors II courses students develop communicative skills in a cultural context. Language skills and cultural knowledge are enhanced by the use of authentic resources. Evaluations involve classwork, projects, and performances. Intermediate Low is the proficiency goal.		Full Year - 5 Credits	9	H	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Spanish III (H)	4361	In these courses, students complete their study of the fundamental grammar of the language, particularly verb and tense usage. The pace is brisk and intense. Conversation is emphasized and cultural exploration continues. Intermediate Mid is the proficiency goal.		Full Year - 5 Credits	10	H	Global	All years	A1, A4, C1, C2, C3, S1, S2

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World Language	Spanish IV (H)	4371	These courses constitute the first phase of Advanced Placement. They consist of a survey of excerpts from the literature of the language being studied, a thorough review of grammar, and an in-depth study of vocabulary. Increased emphasis is placed on grammar so that accuracy of usage improves. Outside readings, reports and projects further develop students' skills. Intermediate High is the proficiency goal.		Full Year - 5 Credits	11	H	Global	All years	A1, A4, C1, C2, C3, S1, S2
World Language	Spanish V (AP)	4381	This course is based on the Advanced Placement Program as outlined by the College Entrance Examination Board and prepares students for the Language Advanced Placement Examination. The course is a college level language course. Students are expected to take the AP Exam in May. Students are expected to do graded summer work prior to enrolling in this course. The grade will be reflected as an exam or a project grade in the first quarter. Advanced Low is the proficiency goal.		Full Year - 5 Credits	12	H	Global	All years	A1, A4, C1, C2, C3, S1, S2
World Language	Spanish V (H)	4391	This is an option for students who want an honors level course focused on conversation and comprehension. It is designed to further develop, strengthen and refine students' skills. Advanced Low is the proficiency goal.		Full Year - 5 Credits	12	H	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese V (H)	4431	At Chinese V, students continue to expand vocabulary and build up proficiency in all four language skills. Students will continue to acquire clear and natural pronunciation and intonations as well as additional characters. At the end of this course, students can fluently and spontaneously express themselves on a wide range of topics using complex sentences and in cohesive discourse.	Students can also effectively present and support opinions. Students will also explore modern China and compare it to the US society.	Full Year - 5 Credits	12	H	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese Lang & Culture (H)	4471	In this course, students will become acquainted with elements of Chinese history, civilization, geography, facts of everyday life. The focus will be on listening and speaking Chinese as an introduction to the language. It would be an elective offering and not factor into a sequence of study of Chinese. If enrollment is low the course may be combined with Chinese I Honors.		Full Year - 5 Credits	9,10,11,12	H	Global	All years	A1, C1, C2, C3, S1, S2

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World Language	Chinese II (CP)	4520	At Chinese II CP, students will become further familiar with the Mandarin phonetic system and the tones as well as expanding vocabulary and mastering more complex sentences. By the end of this course, students can understand and communicate with others on familiar topics in greater details and appropriately express attitudes and emotions. Students will also understand traditional Chinese holidays, school life and the basic value systems of Chinese culture.	Handwriting Chinese characters is not required at the CP level. All other components are comparable to the Honors level.	Full Year - 5 Credits	9,10,11,12	CP	Global	All Years	A1, C1, C2, C3, S1, S2
World Language	Chinese III (CP)	4521	At Chinese III CP, students will continue to build vocabulary and expressions related to daily life and familiar social interactions. Students can use more complex grammatical structures to communicate on familiar topics in conversations. Students will understand the history of Chinese language, culture and arts and their contributions to other cultures	At CP level, handwriting Chinese characters is not required. All other components are comparable with the Honors level.	Full Year - 5 Credits	10,11,12	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese IV (CP)	4522	Students will master sounds of Pinyin and produce correct, natural tones and intonations in everyday conversation. Students understand conventions of character construction and the patterns of Chinese words through thematic units. Students can communicate with others on familiar topics with clarity and coherence as well as narrate personal experiences, express viewpoints, and give simple reasons and explanations.	At CP level, handwriting of Chinese characters is not required but all other components are comparable to Honors level.	Full-Year - 5 credits	12	CP	Global	All Years	A1, C1, C2, C3, S1, S2
World Language	Chinese V (CP)	4523	Chinese V CP, students continue to expand vocabulary and build up proficiency in listening and speaking. At the end of this course, students can fluently and spontaneously express themselves on a wide range of familiar topics using complex sentences and they can start and sustain more substantial conversations.	At CP level, handwriting Chinese characters is not required. All other components are comparable to Honors level.	Full Year - 5 Credits	12	CP	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese I (H)	4621	At Chinese I, students will learn the basics of the language and its culture. Students will master the Mandarin phonetic system and the basic components of characters. Students will know and master the basic sentence patterns and word order. By the end of this course students can understand and conduct simple conversations in exchanging basic personal information, greetings, giving simple instructions and commands.	If enrollment is low this course may be combined with Chinese Language and Culture.	Full Year - 5 Credits	9,10,11,12	H	Global	As Needed	A1, C1, C2, C3, S1, S2

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World Language	Chinese II (H)	4631	At Chinese II, students will continue to develop accuracy and proficiency in Chinese phonetics and characters as well as learn more complex sentence structures. By the end of this course, students can understand and communicate with others on familiar topics in greater details and appropriately express attitudes and emotions. Students will also learn about traditional Chinese holidays, school life, and the basic value systems in Chinese culture.		Full Year - 5 Credits	9,10,11,12	H	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese III (H)	4641	At Chinese III, students will continue expand words and phrases related to daily life and social interactions. Students can use more complex grammatical structures and sentence patterns to communicate on familiar topics in conversations. Students can also compose brief passages. Students will understand the history of Chinese language, culture and arts and their contributions to other cultures. Student will also learn about the Chinese social structure.		Full Year - 5 Credits	10,11,12	H	Global	All years	A1, C1, C2, C3, S1, S2
World Language	Chinese IV (H)	4651	At Chinese IV (H), students will master sounds of Pinyin and produce correct, natural tones and intonations in everyday conversation. Students understand conventions of character construction and the patterns of Chinese words through thematic units. Students can communicate with others on familiar topics with clarity and coherence as well as narrate personal experiences, express viewpoints, and give simple reasons and explanations.	Students will learn more about social etiquettes and customs and explore ancient China.	Full Year - 5 Credits	11,12	H	Global	All years	A1, C1, C2, C3, S1, S2