



Victor Senior High School Course Descriptions

- ⇒ ART
- ⇒ BUSINESS
- ⇒ ENGLISH
- ⇒ HEALTH
- ⇒ MATH (Including COMPUTER SCIENCE)
- ⇒ MUSIC
- ⇒ PHYSICAL EDUCATION
- ⇒ SCIENCE
- ⇒ SOCIAL STUDIES
- ⇒ TECHNOLOGY
- ⇒ WORK BASED LEARNING
- ⇒ WORLD LANGUAGE

ART

Title: Studio Art

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisites: None

Course Description: Studio Art is a comprehensive foundation course providing broad experience with a wide variety of art media and processes. Units are grounded in working with composition and understanding the elements of art and principles of design. The course covers basic drawing with graphite and colored pencil, painting with watercolor and acrylic, printmaking, and ceramics. Studio Art is a prerequisite for most other art courses and counts toward the elective credit required for a Regents Diploma.

Title: Digital Studio Art

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: None

Course Description: Digital Studio Art offers students an alternative to traditional Studio Art as a required elective for a Regents Diploma. In this course, students will follow the same course sequence and curriculum as Studio Art but create works of art using the computer and an iPad as the main medium of choice. Programs that students will use include: Adobe Photoshop, Animate and Procreate.

Title: Drawing and Painting 1

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: Studio Art

Course Description: Drawing and Painting 1 is designed to grow and develop the basics of drawing from sketching to creating finished works of art. The elements of art and principles of design are explored through observational drawings created in a wide variety of black and white and color media. The emphasis of this course is to build skill competency while promoting individual growth and creativity. Mediums used include: graphite, charcoal, colored pencil, and acrylic paints.

Title: Drawing and Painting 2

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: Drawing and Painting 1

Course Description: Drawing and Painting 2 advances the knowledge and skills acquired in Drawing and Painting 1. The basic drawing skills that have been developed are used to solve more sophisticated art problems. Students explore self-expression and creative problem solving techniques. In this course students will further their artistic independence with continued guided exploration of both familiar and new media, concepts and techniques. Students will continue to build their portfolio of work and will be encouraged to develop their own creative styles.

Title: Art Portfolio/AP 2-D Art and Design

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite: Drawing and Painting 2

Course Description: This class is designed for those students interested in developing a portfolio of artwork for college credit. Assignments are designed to meet each individual student's portfolio goals while building upon the skills developed in Drawing & Painting 2. Portfolio quality work is created in figure drawing, observational studies and through the exploration of individual style. Students choosing the AP Studio Art option will submit a digital portfolio of work for college credit consisting of their top drawings and paintings over the past three years.

Title: Illustration

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite: Studio Art

Course Description: Illustration is a course that uses traditional media and techniques to convey a message or tell a story. Students will study examples of a visual narrative from traditional illustration to present-day examples. They will also learn and develop storytelling skills which is a vital aspect of illustration. Students will develop conceptual strategies, take risks, try new ideas and explore non-literal thinking, giving form to abstract ideas.

Title: Visual Journaling

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite: Studio Art

Course Description: Visual Journaling is a creative way for students to express and record their life experiences, artistic journeys, emotions and ideas in a sketchbook format. Visual journals can be an essential tool for self-reflection, creativity and art exploration. Students will explore image-making techniques such as collage, image transfers, typography, drawing and painting. This course will focus on the sketchbook as an art form, capturing everyday drawings or ideas.

Title: Photography

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: None

Course Description: This course is designed to build an understanding of how to create strong photographic compositions. Students will gain experience in the photographic process through the use of cameras, photo studio lights, and Adobe Photoshop, while they develop their own photographic style. Students will study the work of famous photographers, research careers in photography and analyze work in a reflective practice. Alternative photographic processes will be introduced. Students should supply their own camera, if possible. Some cameras are available to borrow and share.

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Title: Computer Generated Art

Duration: Full Year

HS Credit: 1.0

Open to grades: 11-12

Prerequisite: Studio Art or Digital Studio Art

Course Description: Computer Generated Art focuses on current technology being used by working professionals in various fields of commercial art. Areas of focus for this course are basic design, graphic design and illustration. Students will use industry-standard programs such as Adobe Illustrator and Adobe Fresco to solve real world problems using strategies applied by working commercial artists.

3-D Art Courses

Title: Sculpture 1

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite: Studio Art

Course Description: The objective of Sculpture 1 is to expose students to basic tools, processes, sketchbook development, and safety practices while exploring a variety of techniques used to create three-dimensional works of art. Students will have the opportunity to explore materials such as: wire, plaster, tape, cardboard, and paper as well as natural and found materials. Students will learn molding, construction, carving, assemblage, relief, additive and subtractive processes as they create realistic and abstract works of art.

Title: Sculpture 2

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite: Studio Art and Sculpture 1

Course Description: Sculpture 2 expands on the skills, tools, processes, sketchbook development, and safety practices from Sculpture 1. Students work with a variety of techniques to create three-dimensional works of art. Students will have the opportunity to explore materials such as: polymer clay, a variety of papers, and fabrics as well as natural and found materials. Students will learn modeling, mixed media construction, assemblage, additive and subtractive processes as they create realistic and abstract works of art.

Title: Ceramics 1

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: Studio Art

Course Description: Ceramics 1 is designed for students who have an interest in working with clay. The course gives students experiences in making functional as well as sculptural pieces, using a variety of techniques. Students will gain an initial understanding of the pinch, coil, and slab methods of construction. Various finishing techniques will be introduced, including glazing, underglaze decoration and sgraffito.

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Title: Ceramics 2

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: Studio Art and Ceramics 1

Course Description: In Ceramics 2 students will explore advanced construction techniques and design concepts. They will engage in independent creative problem solving and create work that is elevated and personal. Students will be given an introduction to wheel throwing, advanced coil and slab building techniques, and a variety of advanced glazing techniques.

Title: AP 3-D Art and Design

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite(s): Studio Art AND Ceramics 1 & 2 OR Sculpture 1 & 2

Assessment: AP 3-D Art Digital Portfolio Submission

Course Description: The AP 3-D Art and Design course challenges students with an inquiry-based approach to learning about and making forms and structures in art and design. Students are invited to conduct a personal, in-depth, sustained investigation of materials, processes, concepts, and ideas in three dimensional media. The course focuses on concepts and skills emphasized within college art and design 3-D foundation courses with the goal of guiding students toward becoming inquisitive, thoughtful artists and designers able to create, explore, and develop works as well as to articulate information about their work.

Title: Unified Art

Duration: Half and Full Year Options

HS Credit: .5 (half year) or 1.0 (full year)

College Credit: AP College Board (Exam score dependent)

Open to grades: 10-12

Prerequisite(s): None

Course Description: Unified Art is a course designed to promote an inclusive art making setting, regardless of ability level. Through a variety of engaging activities and art material explorations, students will learn the importance of collaboration, communication and inclusivity. In this course, students will participate in art making activities in a developmentally appropriate environment focused on inclusion. An emphasis will be placed on developing social skills, creating a foundation for artistic practice, understanding the rules of the art room, and building a positive and inclusive school culture.

BUSINESS

Title: Accounting - Gemini

Duration: Full Year

HS Credit: 1.0

Open to grades: 11-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

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Title: Introduction to Business - Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: Finger Lakes Community College Gemini (SUNY)

Open to grades: 10-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to provide an introduction to a variety of business factors. Key topics include ownership, careers, economic systems, competition, organizational structures, management, production, marketing, finance, and business ethics. Students will also learn about current trends and challenges in today's global environment.

Title: Computer Applications - Gemini

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to introduce and strengthen student skills in Microsoft Word, PowerPoint, and Excel. Key topics include typing skills and accuracy, keyboard shortcuts, data entry, basic formulas and functions, visual representations, file management, document formatting, creating professional presentations and presentation skills.

Title: Marketing

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to introduce the functions of marketing and the core concepts/strategies that drive marketing decisions. Key topics include the product packaging, positioning, branding, social media, related professional fields, and current trends in the field of marketing.

Title: Personal Investing

Duration: Half Year

HS Credit: 0.5

College Credit: Monroe Community College (SUNY)

Open to grades: 10-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to explore the investing process, understand the basic tools of investing, and give practical experience in establishing and monitoring a portfolio. Key topics include savings vs. investing, investment vehicles (emphasis on stock market), mutual funds, investing for retirement, and real estate investment opportunities. Throughout the course, students will engage in problem solving and decision making around investment strategies for immediate and long term gains.

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Title: Personal Money Management - Gemini

Duration: Half Year

HS Credit: 0.5

College Credit: Finger Lakes Community College Gemini (SUNY)

Open to grades: 10-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to explore the management of personal finances over the life cycle of a consumer. Key topics include establishing personal financial objectives, banking, budgeting, use of credit, property, liability, life insurance, major life purchases (housing, transportation, education), taxes, savings, investments, and retirement/estate planning. Throughout the course, students will learn about the traits of a responsible consumer and the importance of informed financial decision-making.

Title: Sports Entertainment and Recreational Management

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This course is designed to explore the components of sports management and the economic impact of sports. Throughout the course, students will explore the sports, entertainment, and recreation industries and how each uses management basics to promote athletes to target customers. Key topics include contracts, collective bargaining agreements, professional vs. amateur athletes, media, college recruiting, and NIL.

ENGLISH

Title: English 9

Duration: Full Year

HS Credit: 1.0

Open to grades: 9

Prerequisite: none

Assessment: Local Assessment

Course Description: This course is based on a variety of language arts experiences and is designed to broaden their scopes and sharpen their skills as listeners, speakers, readers, and writers. This course emphasizes critical and creative thinking, problem-solving, decision-making, and the production of quality work. Major works and projects in English 9 reflect an exploration of identity and the power of storytelling, typically including memoir writing, integrated short stories, *Romeo and Juliet*, and *Patron Saints of Nothing*. Additionally, the course includes a research project to further develop students' analytical and writing skills.

Title: English 9 Honors

Duration: Full Year

HS Credit: 1.0

Open to grades: 9

Prerequisite: none

Assessment: Local Assessment

Course Description: This course is based on providing the preparatory and necessary skills for AP Language and Composition 10, English 11, and AP English Literature and Composition. It is designed to focus on developing critical reading, writing, and literary analysis skills, allowing students to engage with challenging works of fiction and nonfiction, write in various genres, and refine their composition and research abilities.

Title: English 10

Duration: Full Year

HS Credit: 1.0

Open to grades:
10

Prerequisite: English 9

Assessment: Local Assessment

Course Description: This course is based on providing students with a variety of language arts experiences to broaden their scopes and sharpen their skills as listeners, speakers, readers, and writers. It is designed to emphasize critical thinking, problem-solving, decision-making, and the production of quality work, with major works and projects reflecting the theme of "Justice and Injustice in Society." The course typically includes a research or career project.

Title: AP Language and Composition - Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 10

Prerequisite(s): English 9

Assessment: AP Language and Composition Exam

Course Description: This course is based on the AP Course Framework and is designed as an introductory college-level course that focuses on non-fiction prose from various periods, disciplines, and rhetorical contexts. It emphasizes the reading and writing of expository, analytical, and argumentative essays, enhancing students' understanding of a writer's purpose, audience, and the ways in which language choices contribute to the effectiveness of their writing.

Title: English 11

Duration: Full Year

HS Credit: 1.0

Open to grades: 11

Prerequisite: English 10/AP Language and Composition

Assessment: Regents English, *required for Graduation*

Course Description: This course is based on providing students with a variety of language arts experiences to broaden their scopes and sharpen their skills as listeners, speakers, readers, and writers. It is designed to emphasize critical thinking, problem-solving, decision-making, and the production of quality work, with major

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works and projects reflecting the theme of discovering identity through a variety of American literature pieces.

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The course typically includes *The Great Gatsby*, *The Crucible*, and *The Things They Carried*, along with a thesis paper.

Title: English 11 Honors

Duration: Full Year

HS Credit: 1.0

Open to grades: 11

Prerequisite: English 10/AP Language and Composition

Assessment: Regents English, *required for Graduation*

Course Description:

This course is based on offering students a more extensive and rigorous 11th-grade English experience. It is designed to focus on American and world literature, introducing students to a wide range of literary works across different periods, genres, and styles. Through oral and written expression, students develop the ability to engage in close, detailed analysis of literature. The course includes oral assessments and preparation for the Regents exam.

Title: English 12R

Duration: Full Year

HS Credit: 1.0

Open to grades: 12

Prerequisite: English 11/English 11 Honors

Assessment: Local Assessment

Course Description: This course is based on offering students a variety of language arts experiences to broaden their scope and sharpen their skills as listeners, speakers, readers, and writers. It is designed to emphasize critical thinking, problem-solving, decision-making, and the production of quality work. As seniors, students reflect on who they are, where they are going, and where they have been. Major works and projects in English 12R typically include *Born a Crime* by Trevor Noah, *Hamlet* by William Shakespeare, daily independent reading, a senior scrapbook portfolio, a film studies unit, a documentary film project, and a short story unit.

Title: AP Literature and Composition

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 12

Prerequisite(s): English 11/English 11 Honors

Assessment: AP Literature and Composition Exam

Course Description: This course is based on the AP Course Framework and is designed as an introductory college-level course that focuses on the study of literature analysis; general content includes novels, poetry, and drama representative of classic and contemporary world literature. Composition study will focus on analysis and use of advanced rhetorical techniques in literary essays.

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Title: Creative Writer's Workshop

Duration: Half-Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: none

Assessment: Local Assessment

Course Description: This course is based on the writing process and is designed to guide students in completing creative works across various styles, including poetry, short stories, fiction, and personal narratives. As students develop their unique writing voices, they will also have opportunities to submit their work to local publishing events for potential publication. The course incorporates proofreading, peer editing, oral reading/sharing, and constructive criticism as integral parts of the writing process.

Title: Journalism I & II

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: English 11

Assessment: Local assessment

Course Description: This course is based on writing and producing stories for publication on our website and morning show, as well as completing journalism-related homework and class work. It is designed to provide students with hands-on experience in journalistic writing and reporting, requiring most interviews for news stories to be conducted outside of class. To facilitate this, it is recommended that students schedule advisories on both B and D days.

Title: Leadership - Gemini

Duration: Half Year

HS Credit: 0.5

Open to grades: 11 & 12

Prerequisite: None

Assessment: Local Assessment

Course Description: This course is designed to help students develop their own leadership styles, values, and beliefs. Students will work on enhancing communication and interpersonal skills while examining their personality traits. Through discussions, projects, and engaging challenges, students will strengthen their decision-making and problem-solving abilities. The Leadership course also focuses on building self-confidence and public speaking skills through various activities, with the added potential for students to earn college credit.

Title: Public Speaking - Gemini

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: None

Assessment: Local Assessment

Course Description: This course introduces speech making using a primarily experiential learning approach, highlighting the importance of public speaking and developing an understanding and practical application of oral communication skills. It includes a variety of activities designed to teach techniques in controlling speech

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anxiety, structuring and organizing information for presentation to a variety of audiences, and physical and vocal delivery skills.

HEALTH

Title: Health

Duration: Half-Year

H.S. Credit: 0.5

Open to grades:

10-12 Prerequisite:

None

The Health Education course is a mandatory subject in high school, designed in accordance with the New York State (NYS) Standards for Health Education. The curriculum encompasses a comprehensive range of topics, including: Decision Making, Mental Health, Stress Management, Social Health, Nutrition, Physical Fitness, Human Sexuality, Genetics and Development, Drug and Alcohol Prevention, Awareness of AIDS and Other Sexually Transmitted Diseases, and Ethical Values. This course aims to equip students with essential knowledge and skills to promote their overall well-being and make informed health-related decisions.

MATH

Title: Algebra I

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite(s): None

Assessment: Algebra Regents Exam, *required for Graduation*

Course Description: This course is based on the NYS Next Generation Math Standards and focuses on the study of linear, exponential, quadratic, and other functions. In addition, students translate between verbal descriptions and algebraic representations, solve equations using a variety of methods, and are introduced to statistics. A Ti-84+ graphing calculator is required for this course.

Title: Geometry

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite(s): Algebra I

Assessment: Geometry Regents Exam

Course Description: This course is based on the NYS Next Generation Math Standards and focuses on the study of coordinate geometry, transformations, constructions, congruence, similarity, proofs, trigonometry, 3-dimensional geometry, and circles. Throughout their study of geometry, students explore complex geometric situations and deepen their understanding and explanations of geometric relationships. A Ti-84+ graphing calculator and compass are required for this course.

Title: Applied Geometry

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite(s): Algebra I

Assessment: Local Assessment

Course Description: This course is based on the Next Generation Math Standards and provides foundational instruction in the areas of coordinate geometry, transformations, constructions, congruence, similarity, proofs, trigonometry, 3-dimensional geometry, and circles. A graphing calculator is required for this course.

Title: Geometry Honors

Duration: Full Year

HS Credit: 1.0

Open to grades: 9

Prerequisite(s): Algebra I (with teacher recommendation)

Assessment: Geometry Regents Exam

Course Description: This course is based on the Next Generation Math Standards and focuses on the study of coordinate geometry, transformations, constructions, congruence, similarity, proofs, Trigonometry, 3-dimensional geometry, and circles. Throughout the course, students explore complex geometric relationships and all topics are studied in greater depth, at a faster pace, and with challenging applications. A Ti-84+ graphing calculator and compass are required for this course.

Title: Algebra 2

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite(s): Geometry or Applied Geometry (with teacher recommendation)

Assessment: Algebra 2 Regents Exam

Course Description: This course is based on the Next Generation Math Standards and focuses on the study of functions, graph behavior, solving advanced equations, probability, statistics, sequences and series, logarithms, and trigonometry. A Ti-84+ graphing calculator is required for this course.

Title: Algebra 2 Honors

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-11

Prerequisite(s): Honors Geometry or Geometry (with teacher recommendation)

Assessment: Algebra 2 Regents Exam

Course Description: This course is based on the Next Generation Math Standards and focuses on the study of functions, graph behavior, solving advanced equations, probability, statistics, sequences and series, logarithms, and trigonometry. In comparison to Algebra 2, all topics are covered in greater depth, at a faster pace, and with more challenging extensions and/or applications. Additional topics from precalculus are introduced during this course and most assessments include non-calculator computation components. A Ti-84+ graphing calculator is required for this course.

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Title: College Algebra

Duration: Full Year

HS Credit: 1.0

Open to grades: 11-12

Prerequisite: Geometry or Applied Geometry

Assessment: Local Assessment

Course Description: This course is designed to explore the major functions introduced in a college level precalculus course. Key topics include learning about the following functions: linear, systems of linear equations, exponential, quadratic, polynomial, rational, logarithmic, and periodic.

Title: Precalculus - Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: Finger Lakes Community College Gemini (SUNY)

Open to grades: 12

Prerequisite: Algebra 2 or College Algebra (with teacher recommendation)

Assessment: FLCC Precalculus Final Exam

Course Description: This course continues the learning of functions from Algebra 2 and extends to exponential, logarithmic, polynomial, rational, and trigonometric functions. Students will learn about the operations of functions including transformations, compositions, decompositions, and inverses. This course explores the applications and determining reasonable solutions of these functions and also provides a bridge to the beginning groundwork of Calculus (rates of changes, extrema, and concavity). A Ti-84+ graphing calculator is required for this course.

Title: AP Precalculus

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11

Prerequisite: Algebra 2

Assessment: AP Precalculus Exam

Course Description: This course is based on the AP Course Framework and is designed to prepare students for AP Calculus AB. It focuses on the study and applications of polynomial, rational, exponential, logarithmic, trigonometric, and polar functions. This course emphasizes the underlying structure of mathematics and introduces students to the concepts of AP Calculus AB. A Ti-84+ graphing calculator is required for this course.

Title: AP Precalculus Honors

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 10-11

Prerequisite: Algebra 2 Honors

Assessment: AP Precalculus Exam

Course Description: This course is based on the AP Course Framework and is designed to prepare students

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for AP Calculus BC. It focuses on the study of polynomial, rational, exponential, logarithmic, trigonometric, and

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polar functions. In addition, this course provides instruction in parametrically defined functions, vectors, infinite series and derivatives to prepare students for the complex concepts of AP Calculus BC. A Ti-84+ graphing calculator is required for this course.

Title: AP Calculus AB

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite: AP Precalculus or AP Precalculus Honors

Assessment: AP Calculus AB Exam

Course Description: This course is based on the AP Course Framework and is designed as an introductory college level course that cultivates an understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally. It focuses on the study of limits and continuity, differentiation (properties, functions, applications), integration, accumulation of change, differential equations, and applications of integration. A graphing calculator is required for this course.

Title: AP Calculus BC

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite: AP Precalculus Honors

Assessment: AP Calculus BC Exam

Course Description: This course is based on the AP Course Framework and is designed as an introductory college level course that cultivates an understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally. It focuses on the study of limits and continuity, differentiation (properties, functions, applications), integration, accumulation of change, differential equations, and applications of integration, parametric equations, polar coordinates, vector-valued functions, and infinite sequences and series. A graphing calculator is required for this course.

Title: Statistics 1

Duration: Half-Year

HS Credit: 0.5

Open to grades: 11-12

Prerequisite: Geometry or College Algebra

Assessment: Local Assessment

Course Description: This course is designed to offer an in-depth understanding of inferential statistics. It focuses on the study of measures of variability, normal distribution, distribution comparisons, and introduction to hypothesis testing.

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Title: Statistics 2

Duration: Half-Year

HS Credit: 0.5

Open to grades: 11-12

Prerequisite: Statistics 1

Assessment: Local Assessment

Course Description: This course is designed to further explore the major topics of statistics and different types of hypothesis testing. Key topics include means, proportions, chi-square and using confidence intervals.

Title: AP Statistics

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite: Algebra 2

Assessment: AP Statistics Exam

Course Description: This course is based on the AP Course Framework and is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It focuses on the study of exploring one and two variable data, probability, random variables, probability distributions, proportions, means, and inference for quantitative and categorical data. A graphing calculator is required for this course.

Title: Computer Science I

Duration: Half Year

HS Credit: 0.5

Open to grades: 9* - 12

Prerequisite: Algebra Course and Algebra Regents Exam

Assessment Expectation: Local Assessment

Course Description: This course is designed to develop analytical computer skills and enhance problem solving ability through the study of Java programming. It focuses on the study of sequential code, methods, debugging, conditionals and iterations. Additionally, students will use Java to study primitive data types, operators with simple control structures:

Title: Computer Science II

Duration: Half Year

HS Credit: 0.5

Open to grades: 9 - 12

Prerequisite: Computer Science 1

Assessment Expectation: Local Assessment

Course Description: This course is designed to be a continuation of concepts introduced in Computer Science 1. Students will continue to develop their programming knowledge and will engage in the study of static methods, Arrays, and Two-Dimensional Arrays.

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Title: AP Computer Science A

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 10-12

Prerequisite: Computer Science 2

Assessment Expectation: AP Computer Science Exam

Course Description: This course is an introductory college-level computing course that builds on the concepts introduced in Computer Science 1 and 2. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. This course focuses on the study of writing classes, using inheritance, and developing programs.

Title: Data Structures and Algorithms (DSA)

Duration: Full Year

Open to grades: 11-12

Prerequisite: Computer Science 1 & 2, AP Computer Science

Assessment Expectation: Local Assessment

Course Description: This course is designed to further develop problem solving capabilities by expanding on data structure use and design. This course focuses on the study of arrays, array lists, tree and graph structures, nested data structures, objects, classes, inheritance, interfaces, object-oriented collection class libraries for abstract data types (e.g. stacks, queues, maps, and trees), and static vs. dynamic data types. In this course, students will also be introduced to VSCode, a modern integrated software development environment (IDE).

MUSIC

Title: Introduction to Piano and Music Theory

Duration: Half-Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite: None

Course Description: This course is open to experienced and non-experienced pianists alike. It offers students an introduction to music theory and piano technique and allows them to work at their own ability level. Students will periodically have the opportunity to perform for the class.

Title: Music Appreciation

Duration: Half-Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite: None

Course Description: This is an online, self-paced, course taught by a VCS music teacher. Students will be taught basics in songwriting, investigate their relationship with their musical mind and will explore a variety of music genres.

Title: Topics in Music History

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: None

Course Description: This course explores Western Music, cultural music and popular music of the past and present. Students will broaden their knowledge of various musical genres and styles as they study a wide range of musical topics from different time periods, cultures, composers and artists. Projects will be based on individual musical interests and musical background of the students. No performance requirement. Open to all ability levels.

Title: Music Theory

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: Prior experience in a music ensemble and/or Introduction to Piano and Music Theory.

Course Description: This course will develop a foundation in music theory and will further the study of music theory as students consider the study of music, post-high school. In this course, students will broaden their knowledge of various musical genres and styles through the use of ear training, music composition and in-depth analysis. Some in-class music performances are involved.

Title: Concert Choir

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: None

Course Description: Performing in concert choir offers students the opportunity to study music in an ensemble/team setting. Accomplishing musical goals in a cooperative learning environment is the focus of this class. Music of varying difficulty, time periods and genres is studied. Emphasis is placed on a cappella singing, languages, balances, blend and style. Participation in outside performing opportunities and solo festivals is open to all students. Participation in all ensemble concerts is a mandatory course requirement.

Title: Varsity Choir

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: Audition

Course Description: Performing in this auditioned choir provides students an opportunity to study advanced choral literature, while advancing their vocal skills. Auditions are held each December-January for the subsequent school year. Participation in outside performing opportunities and solo festivals is open to all students. Participation in all ensemble concerts is a mandatory course requirement.

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Title: Sinfonia Orchestra

Duration: Full-Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: Participation in Junior High Orchestra or equivalent private lesson instruction

Course Description: Performance literature for Sinfonia is designed to technically challenge students and expose them to a wide variety of compositional styles across the historical spectrum. Students will receive individual instruction on their primary instrument in weekly lessons, as well as instruction in music theory and critical analysis in rehearsals. Participation in outside performing opportunities and solo festivals is open to all students and is strongly encouraged. Participation in all ensemble concerts is a mandatory course requirement.

Title: Philharmonic Orchestra

Duration: Full-Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: Audition

Course Description: Performing in the Philharmonic is a unique experience that provides the student musician an opportunity to study advanced literature, while furthering their musical skills. Auditions are held in January for the subsequent school year. Participation in outside performing opportunities and solo festivals is open to all students and is strongly encouraged. Participation in all ensemble concerts is a mandatory course requirement.

Title: Symphonic Band

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite: Lessons & Band Experience

Course Description: Performing in a band enables a student to broaden their music knowledge, develop a skill on a musical instrument, and gain personal confidence and maturity in their capabilities through group and personal performance. As members of the Symphonic Band, students will receive a traditional concert band experience as well as the opportunity to participate in extracurricular ensembles and other small ensembles. Participation in outside performing opportunities and solo festivals is open to all students and is strongly encouraged. Participation in all ensemble concerts is a mandatory course requirement.

Title: Wind Ensemble

Duration: Full-Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite: Audition

Course Description: Performing in the Wind Ensemble is a unique experience that provides the student musician an opportunity to study advanced literature, while furthering their musical skills.. Auditions are held each January for the subsequent school year. Participation in outside performing opportunities and solo festivals is open to all students and is strongly encouraged. Participation in all ensemble concerts is a mandatory course requirement.

PHYSICAL EDUCATION

Title: Physical Education 9, 10, 11, 12

Duration: Full Year

Credit: 0.5

Open to grades: 9-12

Prerequisite: None

Course Description: The sequential physical education program includes a variety of activities with an emphasis on personal fitness designed to promote growth in skill, knowledge, and appreciation of an active, healthy lifestyle. An emphasis is placed on the instruction of skills and activities that reflect current trends in fitness and active lifestyles. Examples of these activities include rock climbing, kayaking, in-line skating, cross country skiing, archery, aerobic dance, and fitness/wellness. Physical Education is an annual, mandated course for all students.

Title: Intro to Coaching Leadership

Duration: Half Year

Credit: 0.5

Open to grades: 11-12

Prerequisite: None

This course will give students will an opportunity to learn the foundational skills that are necessary to become a certified coach and official. The course will provide students with an understanding of coaching leadership, principles and practices. Students will explore the role of coaches in fostering positive team dynamics, creating a supportive learning environment and handling difficult decisions effectively. This course will help students understand effective communication strategies, motivational techniques, philosophies of leadership and ethical issues in the coaching world and beyond.

Title: Unified Physical Education

Duration: Full Year

Credit: 0.5

Open to grades: 11-12

Prerequisite: By teacher recommendation only

Unified Physical Education is a course designed to promote an inclusive physical education setting, regardless of ability level. Through a variety of engaging activities, including team sports, individual fitness, lifetime activities, and outdoor education activities, students will learn the importance of collaboration, communication, and inclusivity. In this course, students will participate in physical activities in a developmentally appropriate environment focused on inclusion. An emphasis will be placed on developing social skills, creating a foundation for a healthy lifestyle, understanding the rules of various sports, and building a positive and inclusive school culture.

SCIENCE

Title: Regents Biology

Duration: Full Year

HS Credit: 1.0

Open to grades: 9-12

Prerequisite(s): None

Assessment Expectation: Biology Regents Exam

Course Description: This inquiry-based course is based on the New York State Science Learning Standards and focuses on the exploration of life science. Key topics include structure and function, inheritance and variation of traits, matter and energy in organisms/ecosystems, interdependent relationships in ecosystems, natural selection, and evolution. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements.

Title: Regents Earth and Space Science

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite(s): Biology

Assessment Expectation: Earth Science Regents Exam

Course Description: This inquiry-based course is based on the New York State Science Learning Standards and focuses on the exploration of Earth's processes. Key topics include space systems, history of the Earth, Earth's systems, weather and climate, and human sustainability. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements.

Title: Regents Chemistry

Duration: Full Year

HS Credit: 1.0

Open to grades: 10-12

Prerequisite(s): Biology and Earth and Space Science

Assessment Expectation: Chemistry Regents Exam

This course is based on the New York State Science Learning Standards and focuses on the theoretical and practical aspects of Chemistry. Key topics include matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases, redox and electrochemistry, nuclear chemistry and organic chemistry. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements.

Title: Regents Physics

Duration: Full Year

HS Credit: 1.0

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science, Algebra 2 (completion or concurrent)

Assessment Expectation: Physics Regents Exam

Course Description: This course is based on the New York State Science Learning Standards and focuses on the fundamental concepts of physics. Key topics include motion, energy, forces, electricity, magnetism, waves, light, sound and selected modern physics concepts. This course heavily applies Mathematical concepts to Science. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements.

Title: AP Chemistry

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 10-12

Prerequisite(s): Biology and Earth and Space Science

Assessment Expectation: Chemistry Regents Exam (if not previously taken) and AP Chemistry Exam

Course Description: This college-level course is based on the AP Course Framework and focuses on cultivating an understanding of chemistry through investigations and experiments. Key topics include atomic structure and properties, compound structure and properties, properties of substances and mixtures, chemical reactions, kinetics, thermochemistry, equilibrium, acids and bases, and thermodynamics and electrochemistry. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements for students who have not previously taken Regents Chemistry.

Title: AP Physics I

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science, Chemistry or AP Chemistry, Algebra II (completion or concurrent)

Assessment Expectation: Physics Regents Exam (if not previously taken) and AP Physics I Exam

Course Description: This algebra-based college-level course is based on the AP Course Framework and focuses on cultivating an understanding of physics through inquiry-based investigations. Key topics include kinematics, force and translational dynamics, linear momentum, work, energy, power, torque and rotational dynamics, energy and momentum of rotating systems, oscillations, and fluids. Independent study of two additional units will also prepare students for success on the Physics Regents Exam. This course includes additional instructional time in order to meet 1,200 minutes of hands-on laboratory experiences as a part of the NYS course requirements for students who have not previously taken Regents Physics.

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Title: AP Physics C

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science, Chemistry or AP Chemistry, Calculus (completion or concurrent)

Assessment Expectation: AP Physics Exam: Mechanics, and AP Physics Exam: Electricity and Magnetism

Course Description: This Calculus-based college-level course is based on the AP Course Framework for two courses and focuses on cultivating an understanding of physics through inquiry-based investigations. This course includes additional instructional time in order to complete specific hands-on laboratory experiences as a part of the AP course requirements.

Key topics for AP Physics C: Mechanics include kinematics, force and translational dynamics, work, energy, power, linear momentum, torque and rotational dynamics, energy and momentum of rotating systems, and oscillations.

Key topics for AP Physics C: Electricity and Magnetism include electric charges, fields, and Gauss's Law, electric potential, conductors and capacitors, electric circuits, magnetic fields and electromagnetism, and electromagnetic induction.

Title: AP Biology - Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent) and Finger Lakes Community College Gemini (SUNY)

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science, Chemistry, Algebra 2 (completion or concurrent)

Assessment Expectation: AP Biology Exam

Course Description: This college-level course is based on the AP Course Framework and focuses on cultivating an understanding of Biology through inquiry-based investigations. The course focuses on learning within the four areas of evolution, energy, information, and interactions. This course includes additional instructional time in order to complete specific hands-on laboratory experiences as a part of the AP course requirements.

Title: AP Environmental Science

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam score dependent)

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science, and Chemistry or AP Chemistry (completion or concurrent)

Assessment Expectation: AP Environmental Science Exam

Course Description: This college-level course is based on the AP Course Framework and focuses on cultivating an understanding of the interrelationships of the natural world through inquiry-based investigations and field work. Key topics include the living world: ecosystems, the living world: biodiversity, populations, earth systems and resources, land and water use, energy resources and consumption, atmospheric pollution,

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aquatic and terrestrial pollution, and global change. This course includes additional instructional time in order to complete specific hands-on laboratory experiences as a part of the AP course requirements.

Title: Chemistry Insights

Duration: Half Year

HS Credit: 0.5

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This hands-on course focuses on the fundamental and exploratory aspects of Chemistry. Key topics include the atom, The Periodic Table, matter, bonding, and chemical reactions.

Title: Introduction to Optics

Duration: Half Year

HS Credit: 0.5

College Credit: Monroe Community College (SUNY)

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This hands-on course explores the fundamental principles and applications of Optics. Key topics include the history of optics, the presence of optical phenomena in our everyday lives, basic optical manufacturing, geometrical optics, wave optics, metrology, fiber optics, photonics, human vision, and animal vision.

Title: Environmental Science

Duration: Full Year

HS Credit: 1.0

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This course is designed to examine human existence in its natural surroundings. Key topics include climate change, sustainability, the physical effects of air and water pollution on the world's ecosystems, population density, governmental policy, and local environmental concerns.

Title: Anatomy

Duration: Half Year

HS Credit: 0.5

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This course is designed to examine the structure of the human body and mechanisms for maintaining homeostasis within the body. Key topics include anatomical vocabulary, histology, the human skeleton, and exploration of the muscle/organ systems through dissection.

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Title: Forensics

Duration: Half Year

HS Credit: 0.5

Open to grades: 11-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This hands-on course is designed with an emphasis on in-person investigations and to introduce students to the role of Forensics in criminal investigations. Key topics include crime scene procedures, sketches, ballistics, fingerprinting, hair and fiber analysis, soil and trace evidence, medical evidence, DNA and blood analysis, and legal issues arising from the applications of this science.

Title: Medical Technology

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This hands-on course explores the application of biological concepts and principles to medical/health issues. Key topics include human disorders, emergency situation disaster plans, first aid and diagnostic procedures, health care issues, medical ethics, and medical careers.

Title: Microbiology

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): Biology, Earth and Space Science

Assessment Expectation: Local Assessment

Course Description: This hands-on course is designed to explore the impact of microorganisms on our environment. Key topics include foundations of microbiology, bacteria, microbial diseases, control of microorganisms, and a variety of techniques used to culture, stain and identify bacteria.

SOCIAL STUDIES

Title: Global History and Geography I

Duration: Full Year

HS Credit: 1.0

Open to grades: 9

Prerequisite(s): None

Assessment: Local Assessment

Course Description: This course is the first part of a two-year study of world history, covering key topics such as the Ancient World, Global Interactions, the Rise of Dynasties and Empires, Political Ideologies, and World Religions. The curriculum emphasizes chronological understanding and critical thinking skills that will be assessed on the Grade 10 exam.

Title: World History 9 Honors

Duration: Full Year

HS Credit: 1.0

Open to grades: 9

Prerequisite(s): Recommendation from 8th Grade Teacher

Assessment: Local Assessment

Course Description: This honors course is designed to approximate college-level coursework in world history, emphasizing extensive reading and writing. Students will develop analytical skills and factual knowledge to critically engage with various topics, problems, and materials in world history. This course prepares students for progression into AP World History 10 where they will have the potential to earn college credit.

Title: Global History and Geography II

Duration: Full Year

HS Credit: 1.0

Open to grades:

10

Prerequisite(s): Global History & Geography 1

Assessment: Regents Exam (Global History and Geography)

Course Description: This course is the second part of a two-year study of world history and geography, covering topics such as the Age of Revolutions, a half-century of crisis and achievement (1900-1945), the 20th century since 1945, global connections and interactions, and current issues. The curriculum emphasizes both human achievement and ongoing challenges, culminating in the New York State Regents Exam for Global History and Geography.

Title: AP World History: Modern

Duration: Full Year

HS Credit: 1.0

College Credit: AP College Board (Exam Score Dependent)

Open to grades: 10

Prerequisite(s): World History 9 Honors (teacher recommendation)

Assessment: AP Exam (World History), Regents Exam (Global History and Geography)

Course Description: This course provides an in-depth exploration of World History, developing students' analytical skills and knowledge to critically engage with historical topics and issues. Students will examine key themes and periods in global history through extensive reading, writing, and research.

Title: United States History and Government 11R

Duration: Full Year

HS Credit: 1.0

Open to grades: 11

Prerequisite(s): Global History & Geography I & II

Assessment: US History Regents Exam

Course Description: This course provides an in-depth examination of the constitutional foundations of the United States as a democratic republic. Key topics include the industrialization of the nation, foreign policy, the structure of government, and the formation and functions of political parties.

Title: AP United States History

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College) & AP College Board (Exam Score Dependent)

Open to grades: 11-12

Prerequisite(s): Global History & Geography I & II

Assessment: AP Exam (U.S. History), US History Regents Exam

Course Description: This course focuses on developing students' analytical skills and factual knowledge of American history, preparing them to critically engage with topics, problems, and materials from the field. Key historical periods and events are explored through research, reading, and discussions, with an emphasis on critical analysis of historical developments.

Title: Social Studies 12 R (Economics and Government)

Duration: Full Year

HS Credit: 1.0

Open to grades:

12

Prerequisite(s): Global History and Geography I and II, US History and Government

Assessment: Local Assessment

Course Description: This course consists of two semesters:

1. **Effective Participation in Government:**

This semester focuses on developing political skills related to identifying public issues and evaluating policy applications in real-world situations.

2. **Economics:**

This semester enables students to make informed economic decisions based on macro and microeconomic theories. Topics include the role of business, profits, labor, wages, public goods and services, money, inflation, unemployment, and income distribution. Students will explore the U.S. position in the world economy, alternative economic systems, and issues faced by developing nations, while also developing practical economic life skills through research projects and skills applications.

Title: AP Economics: Macro and Micro

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College) and AP College Board (Exam Score Dependent)

Open to grades: 12

Prerequisite(s): Global History and Geography I and II, US History and Government

Assessment: AP Exams (Macroeconomics and Microeconomics)

Course Description: This full-year course covers both Macroeconomics and Microeconomics, exploring the different aspects of our economy. Microeconomics focuses on decision-making by individuals and firms, while Macroeconomics examines broader national economic systems, including government policies, monetary systems, and international trade. The course emphasizes resource scarcity and decision-making at both individual and national levels. After taking this one course it is possible to receive a total of up to 9 college credits.

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Title: AP Government: United States Government & Politics and Comparative Government & Politics

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College) and AP College Board (Exam Score Dependent)

Open to grades: 12

Prerequisite(s): Global History and Geography I and II, US History and Government

Assessment: AP Exams (U.S. Government & Politics and Comparative Government & Politics)

Course Description: This course reflects two semesters, one focusing on American Government and the other on Comparative Government. In the U.S. Government portion, students explore the American political system, studying political rules, trends, and outcomes. The Comparative Government section challenges students to compare the political systems of the U.K., Russia, China, Nigeria, Mexico, and Iran, analyzing their interconnectedness and extending their understanding of global politics. After taking this one course it is possible to receive a total of up to 9 college credits.

Title: History of Rock and Roll

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): None

Assessment: Local Assessment

Course Description: This course explores the cultural roots of rock music, tracing its evolution from blues, soul, jazz, and folk to the present day. Students engage with social trends that shape and empower rock music while reflecting on its impact on various movements. The course emphasizes participation through discussions, music analysis, and presentations on songs or artists. Weekly readings on the social foundations of each era complement listening activities. Evaluation is based on attendance, participation, classroom discussions, and creative projects, culminating in a final project related to a Rochester area band.

Title: History of Sport

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): None

Assessment: Local Assessment

Course Description: This course examines the evolution of sport from ancient times to the modern era, emphasizing its cultural, political, and economic impacts. Students will explore how sports have both reinforced and challenged gender, race, class, and ethnic barriers in society.

Title: Law

Duration: Full Year

HS Credit: 1.0

Open to grades: 10 -12

Prerequisite(s): None

Assessment: Local Assessment

Course Description: This course introduces students to the English Common Law system, focusing on the nature and purposes of law. Topics covered include the origins of our laws, basic criminal law, tort law, and the

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court system. The course aims to equip students with knowledge to navigate legal issues encountered in

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everyday life, including contracts, juvenile justice, consumer rights, employment law, marital law, and the process of making a will.

Title: Psychology

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): Completion of or currently taking Biology

Assessment: Local Assessment

Course Description: This introductory course in psychology covers the fundamental functions of psychology, human development patterns, and abnormal behaviors. Students will also explore psychological testing and research methods, gaining insights into the scientific study of the mind and behavior.

Title: AP Psychology - Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College) and AP College Board

Open to grades: 10-12

Prerequisite(s): Living Environment

Assessment: AP Exam (Psychology)

Course Descriptions: This course introduces students to the systematic and scientific study of behavior and mental processes in humans and animals. Students will explore various psychological principles and theories across major subfields, including clinical (diagnosing & treating mental health), biological (the connection between brain function & behavior), social (how individuals are influenced by social environments), developmental (how people grow and change throughout life), cognitive (how we remember, perceive, and problem solve), learning (how behavior is learned), personality (how traits & factors shape personality), health (impact of psychological factors on physical health), and positive psychology (factors that contribute to fulfilling life). Additionally, students will explore the methods used by psychologists in both research and practice.

Title: Sociology

Duration: Half Year

HS Credit: 0.5

Open to grades: 10-12

Prerequisite(s): None

Assessment: Local Assessment

Course Description: This semester-long course introduces students to the various facets of society through the lens of sociology. Sociology is the study of people in groups, through observation, research and field testing. You will discover insights about yourself, your peer groups, your town and nearby city, and your country that you've likely never thought about before. Now, before we go any further, a warning: We will be leaning into the difficult and controversial topics that come with Sociology, not avoiding them. Within the course, we discuss Gender, Socialization, Systemic Racism, Economic Inequalities, Deviancy, Politics, Public Education, Social Media and Messaging.

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Title: World War I and World War II / Gemini

Duration: Half Year

HS Credit: 0.5

College Credit: HIS 261 through Gemini Program, FLCC

Open to grades: 11-12

Assessment: Local Assessment

Course Description: This elective course explores key topics related to World War I and World War II, including war theory, the causes, practices, and effects of both conflicts, the rise of fascist and communist states, and significant human achievements in the first half of the 20th century. Designed to prepare students for independent and in-depth work expected in college, this course emphasizes critical thinking and writing about historical events. Students will develop skills in formulating and supporting historical theses and interpreting modern historiography through both oral and written assignments. If students are pursuing Gemini credit, they will have to have taken AP English Language and Composition prior to taking this course.

Title: The Cold War / Gemini

Duration: Half Year

HS Credit: 0.5

College Credit: HIS 262 through Gemini Program, FLCC

Open to grades: 11-12

Assessment: Local Assessment

Course Description: This elective course examines the causes, conduct, and impact of the U.S.-Soviet struggle for global supremacy from 1945 to 1991. Topics include an in-depth study of the Korean War, Cuban Missile Crisis, and Vietnam War, as well as superpower competition in areas such as the Space Race and athletics. Students will explore human achievements in the latter half of the 20th century. This course prepares students for independent and in-depth work typical in college, focusing on critical thinking and writing about historical events. Students will develop skills in formulating and supporting historical theses and interpreting modern historiography through both oral and written assignments. If students are pursuing Gemini credit, they will have to have taken AP English Language and Composition prior to taking this course.

TECHNOLOGY

Title: Design and Drawing for Production (DDP)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 9-12

Prerequisite(s): Algebra 1 (completed or concurrent)

Assessment Expectation: PLTW Assessment

Course Description: This hands-on course is designed to explore engineering tools and apply a common approach to the solution of engineering problems. Students develop skills in technical representation and documentation especially through 3D computer modeling using a Computer Aided Design (CAD) application. Key topics include the design process, sketching, engineering documentation, measurement and statistical analysis, geometry, 3D solid modeling, and reverse engineering. This course also meets the graduation requirement for an Art credit.

Title: Principles of Engineering (POE)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 10-12

Prerequisite(s): Design & Drawing for Production and Geometry (completed or concurrent)

Assessment Expectation: PLTW Assessment

Course Description: This hands-on course is designed to explore a broad range of engineering disciplines, careers, and design and solve real-world engineering problems. Students are introduced to engineering concepts and are empowered to develop technical skills through the use of engineering tools such as 3-D modeling software, hands-on prototyping equipment, programming software, and robotics hardware to bring their solutions to life. Key topics include engineering fields, design processes, simple machines and gears, and applied physics (strength of materials, projectile motion, statics and thermodynamics).

Title: Digital Electronics (DE)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 11-12

Prerequisite(s): Algebra 1

Assessment Expectation: PLTW Assessment

Course Description: This hands-on course is designed to study electronic circuits and how they are used to process and control digital signals. Computer simulation software is used routinely to design and test digital circuitry. Key topics include analog and digital electricity, circuit design, circuit construction, and circuit testing, Arduinos for automation, control, and embedded systems.

Title: Civil Engineering and Architecture (CEA)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 11-12

Prerequisite(s): Algebra 1

Assessment Expectation: PLTW Assessment

Course Description: This hands on course is designed to introduce important aspects of building and site design and development. Students will develop skills in engineering calculations, technical representation and documentation of design solutions according to accepted technical standards, and use of current 3D architectural design and modeling software to represent and communicate solutions. Key topics include the roles of civil engineers and architects, project planning, site planning, building design, projection documentation, and project presentation

Title: Computer Integrated Manufacturing (CIMS)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 10-12

Prerequisite(s): Design & Drawing for Production and Algebra 1

Assessment Expectation: PLTW Assessment

Course Description: This hands-on course deepens the knowledge and skills of students within the context of efficiently creating the products all around us. Students build upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software and will learn and apply concepts related to integrating robotic systems. Key topics include 2-dimensional and 3-dimensional computer aided design (CAD), CNC equipment, computer aided manufacturing software (CAM), automation control, industrial robotics, 3-dimensional printing.

Title: Engineering Design and Development (EDD)

Duration: Full Year

HS Credit: 1.0

College Credit: Project Lead The Way - Rochester Institute of Technology

Open to grades: 12

Prerequisite(s): Design & Drawing for Production, Principles of Engineering, and one additional PLTW course

Assessment Expectation: Final Project

Course Description: This Capstone course integrates the knowledge and skills of previous PLTW coursework. It is an open-ended research experience in which students work in teams to research, design and fabricate solutions to open-ended engineering problems. Coursework includes presentation of progress reports, submitting a final written report, and defending their proposed solutions to a panel of reviewers at the end of the school year.

Title: Basic Woodworking

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): None

Assessment Expectation: Local Assessment

Course Description: This hands-on course introduces students to the foundational skills of designing and fabricating products made from wood. Key topics include safety instruction for hand tools and power machinery, reading design plans, product design and preparation, assembly techniques, finishing techniques, and identification / selection of materials.

Title: Advanced Woodworking

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): Basic Woodworking

Assessment Expectation: Local Assessment

Course Description: This hands-on course builds on the knowledge/skills from Basic Woodworking and

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focuses on a deeper emphasis on the design process and advanced woodworking techniques. Key topics

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include a deeper exposure to previously used tools and different careers/training opportunities related to this field.

Title: Construction Systems

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): Basic Woodworking

Assessment Expectation: Local Assessment

Course Description: This hands-on course focuses on the materials and processes used in constructing and designing residential structures. Students will gain direct experience as they work with materials and processes in the construction of a shed or other small structures. Key topics include estimating, surveying, framing, insulation, plumbing, electrical, drywall, flooring and trim.

Title: Manufacturing Systems

Duration: Half Year

HS Credit: 0.5

Open to grades: 9-12

Prerequisite(s): Advanced Woodworking

Assessment Expectation: Local Assessment

Course Description: This hands-on course focuses on production activities which are performed in a factory setting. Students will use a variety of tools and machines as they explore key topics, such as product design, building of jigs and fixtures, material processing, prototyping, and mass production. Students will have considerable exposure to a wide range of tools and machines.

WORK-BASED LEARNING

Work Study 1 / Work Study 2

Duration (weeks): Half Year

Credits: 0.5 Credits per semester

Open to grades: 11-12

Prerequisite: Students must have established employment to be eligible for this course/credit.

This course is a component of the Work-Based Learning program and provides students with valuable on-the-job training/experience and employability skills instruction. The following conditions must be met during the semester:

- Work a minimum of 150 hours (average of 8 hours/week)
- Meet with WBL Program Staff 3 times during semester (planning, check-in, reflection)
- Complete required coursework. Key topics include career guidance, career field trends, obtaining a job, professional behaviors in the workplace, advancing in a career, employability skills, job regulations and legislation.
- Submit all required paperwork

Internship 1 / Internship 2

Duration (weeks): Half Year (Fall, Spring, or Summer)

Credits: .5 per semester

Open to grades: 11-12

Prerequisite: Students must identify an area of interest to explore for a semester, complete interest paperwork, and work with the WBL Coordinator to establish placement location.

This course is a component of the Work-Based Learning Program and provides high school students with the opportunity to obtain unpaid, on-site career exploration experiences while also receiving instruction on employability skills and career interest research. The following conditions must be met during the semester:

- Attend internship placement(s)/job shadows for a minimum of 54 hours
- Meet with WBL Program Staff 3 times during semester (planning, check-in, reflection)
- Complete required coursework. Key topics include career guidance, obtaining a job, advancing in a career, employability skills, job regulations, and legislation.
- Submit all required paperwork (before, during, after).

WORLD LANGUAGE

Title: French 2 / Spanish 2

Duration: Full Year

HS Credit: 1.0

Open to Grades: 9-12

Prerequisite(s): French 1 / Spanish 1

Assessment: Skills-based Local Assessment (Listening, Speaking, Reading, Writing)

Course Description:

This course continues to develop communication skills and cultural understanding as students become more proficient in listening, reading, writing, and speaking in the target language. Students will engage in presentations and conversations, explore cultural passages and articles, and compose written texts as part of their study. Key topics include daily routines, travel, community, celebrations, childhood, food, and pastimes. Instruction is focused on increasing fluency and comprehension, with an emphasis on practical language use in various contexts.

Title: French 3 / Spanish 3

Duration: Full Year

HS Credit: 1.0

Open to Grades: 10-12

Prerequisite(s): French 2 / Spanish 2

Assessment: Skills-based equivalent to Checkpoint B Exam (Listening, Speaking, Reading, Writing)

Course Description:

This course builds upon the skills developed in Levels I and II, with a focus on enhancing proficiency in reading, writing, listening, and speaking in the target language. Students will read and discuss a short novel in the language and explore topics such as health and wellness, television and movies, travel and tourism, life in the city and country, ancient civilizations, the environment, professions, and food and dining. Instruction emphasizes language application in various contexts, and student-initiated speaking plays a key role in the learning and assessment process. Completion of this course fulfills a Regents with Advanced Designation course requirement for graduation.

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Title: French 4 Gemini / Spanish 4 Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College)

Open to grades: 11-12

Prerequisite(s): French 3 / Spanish 3

Assessment: Local Assessment

Course Description:

This course focuses on advancing communication and cultural understanding in the four key areas: listening, reading, writing, and speaking. Students engage with contemporary cultural materials, including articles and short stories in the target language. Topics such as Travel and Tourism, Celebrations and Traditions, Food and Dining, Gender Roles in Society, Environment, Media, and Cultural Diversity are explored. In Spanish, the course also includes an in-depth study of Spanish-speaking countries around the world.

Title: Spanish 5 Gemini / French 5 Gemini

Duration: Full Year

HS Credit: 1.0

College Credit: Available through the Gemini Program (Finger Lakes Community College)

Open to grades: 12

Prerequisite(s): Spanish 4

Gemini / French 4 Gemini

Assessment: Local Assessment

Course Description: This course continues from Spanish 4 Gemini, focusing on further development of communication and cultural understanding through listening, reading, writing, and speaking. Cultural exploration is enhanced through readings such as current cultural articles and authentic short stories, as well as listening to videos, audio recordings, and music. Writing assignments include essays, emails, and other informal pieces related to the cultural themes of the course. Topics may include Educational Systems, Immigration, and Travel and Leisure. Much of the course is conducted in the target language.

(END)