



## **Holland Patent District Counseling Philosophy**

The school counseling department at HPCSD empowers students to utilize their individual strengths to achieve personal excellence academically and socially, in a safe and nurturing environment with the ultimate goal of preparing students to be responsible, lifelong learners.

### **High School Counseling Staff**

Mrs. Elizabeth Pirnie, School Counselor

Last Names A – K

Grades 9 – 12

(315) 865-4102

[epirnie@hpschools.org](mailto:epirnie@hpschools.org)

Mrs. Ricki Kuchler, School Counselor

Last Names: L – Z

Grades 9 – 12

(315) 865-4102

[rkuchler@hpschools.org](mailto:rkuchler@hpschools.org)

# **Course Selection Guide**

## **Grades 9 - 12**

This Course Selection Guide has been prepared to help students plan for their futures. Planning a high school program is a major task that every student and parent must face. However, it is the responsibility of the school counselor to review all aspects of each student's record to assist in guiding that individual in the development of an appropriate program of study.

Planning next year's course of study is the primary task now at hand. Please use this Guide as an introduction to the courses Holland Patent High School will offer next year. A review of the course descriptions found on the following pages should be the beginning stage of each student's research. Department chairpersons and teachers should be consulted regarding the requirements and depth of study included within each potential course. All questions related to course selections should be referred to the school counseling office.

Please make full use of this Guide in planning a program and rest assured that all Holland Patent personnel are eager and willing to be of assistance. Please be advised that the school reserves the right to withdraw any course in which there is insufficient enrollment. As the Board of Regents and the State Education Department move forward with efforts to raise standards, changes in course offerings and descriptions may occur.

# Graduation Requirements

<b>Local/Regents Diploma Required Courses</b>		<b>Advanced Regents Diploma Required Courses</b>	
English	4	English	4
Social Studies	4	Social Studies	4
Math	3	Math	3
Science	3	Science	3
*World Language	1	World Language	3
Art/Music	1	Art/Music	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Sequence/Electives	As required	Sequence/Electives	As required
Minimum Number	22	Minimum Number	22

**Regents Diploma  
Required Exams  
(65 and above)**

English Language Arts Regents Exam  
 Algebra I Regents Exam  
 Regents Global Studies Exam  
 Regents U.S. History Exam  
 Regents Science Exam

**Advanced Regents Diploma  
Required Exams  
(65 and above)**

English Language Arts Regents Exam  
 All NYS Math Regents Exams offered  
 Regents Global Studies Exam  
 Regents U.S. History Exam  
 Two Regents Science Exams (1 Life, 1 Physical)  
 Foreign Language Checkpoint B Exam

[a] Students acquiring 5 units of credit in Art, Music, Business, Technology or Vocational Education plus the one unit LOTE (Language Other Than English) requirement may be exempt.

# ENGLISH

**Students are required to earn four credits of English to meet the NYS Graduation Requirement.**

**9-English 9R or English 9H**

**10-English 10R or English 10H**

**11-English 11R or AP Language and Composition**

**12- English 12R or MVCC English 101 and 102 or SUPA WRT 105/WRT 114**

**10-12: Elective- Journalism**

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## **English 9 – R, H - 1.0 Credit**

The freshman English course focuses on reading, writing, listening and speaking skills. This curriculum introduces the four major writing tasks required for success on the 11th grade English Language Arts exam.

### Literature and Reading

- Classic/contemporary novel
- Poetry
- Short stories
- Non-fiction
- Oral Presentation and Evaluation
- Mythology and Drama
- Emphasis on Critical Thinking
- Analysis and Application of Literary Devices and techniques
- Process writing and journaling
- Vocabulary and grammar skills

Final Assessment: Final Examination

Prerequisites: For English 9H, English 8H or teacher recommendation is required.

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## **English 10 – R, H - 1.0 Credit**

English 10 will expand on reading, writing, listening and speaking skills introduced in ninth grade and will also emphasize the skills of reading comprehension and literary analysis required for success on the New York State Comprehensive Exam in English Language Arts.

### Literature and Reading

- Read, analyze, and respond to fiction and non-fiction and poetry
- Vocabulary and grammar are reinforced
- Increased emphasis on analysis and interpretation through the use of literary devices and techniques.

- Writing Portfolio to include teacher and student-choice samples of the following types of writing products:
  - Personal narratives and other essays
  - Business letters of introduction and thank you
  - Listening and reading comprehension essays
  - Literary analysis essays, tasks 3 & 4
  - Extended research project; MLA citations

Final Assessment: Final Examination

Prerequisites:

- English 9R, 9H for admission to English 10R
  - English 9H or teacher recommendation for admission to English 10H
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### **English 11 – R - 1.0 Credit**

English 11 will emphasize skills required for success on the New York State Comprehensive Exam in English Language Arts. This exam, taken by all juniors, holds students responsible for work in grades 9, 10 and 11. To prepare, students will:

- Read a variety of mostly literary texts, including plays, novels, nonfiction and poetry
- Write various essays, including compositions, literary essays, persuasive issue-oriented papers
- Listening and writing for information and understanding
- Reading and writing for information and understanding
- Reading and writing for literacy response
- Reading and writing for critical analysis and evaluation

Final Assessment: Regents Examination

\* The Regents Comprehensive Examination in English (ELA) is a graduation requirement.

Prerequisites: English 10 R, H for admission to English 11R

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### **English 12 – R - 1.0 Credit**

Senior English is a full-year, heterogeneously grouped course in which reading, writing, listening and speaking skills are integrated to help students use language effectively and fully appreciate the oral and written expression of others.

- Reading and analyzing literature including fiction, non-fiction, drama, and poetry
- Required to write personal essay, pieces, poetry, letters, inquires and creative pieces
- Study verbal and non verbal language to present a variety of speech

Final Assessment: Portfolio of student products

Prerequisite: English 11R or senior status

Note: This ELA course fulfills the fourth unit of English for students enrolled in a career and technical education program. This has been approved through Oneida-Madison-Herkimer BOCES by the New York State Education Department.

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### **Advanced Placement Language and Composition - 1.0 Credit**

Emphasizing the interactions among a writer's purpose, audience expectation, and subject

- Expository, analytical, and argumentative rhetorical techniques studied
- Variety of literary works analyzed, synthesized and applied to compositions
- Researched argument papers with correct MLA format

Final assessment: NYS ELA 11 Regents Examination

\* The AP Examination is taken in May.

Prerequisites: Teacher recommendation and/or English 10H

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### **MVCC English 101 EN 101/MVCC English 102 EN 102 - 1.0 Credit**

This course focuses on :

- Self expression
- Organization and Development of ideas
- Subordination and coordination of sentences
- Practice of standard usage

Students develop skills in writing, revising, and editing paragraphs and short essays.

Final Assessment: MVCC Final Exam

Prerequisite: Appropriate score on placement test

### **6 MVCC Credits**

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### **Syracuse University Project Advance English 12 – WRT 105/WRT 114**

#### **WRT 105: Practices of Academic Writing - .5 Credit**

This course teaches students strategies of critical academic writing in various genres, including analysis, argument, and researched writing. The course challenges students to understand that effective communication requires people to be aware of the complex factors that shape every rhetorical context, including issues of power, history, difference, and community' and that writing as a process involves reflection and revision. This writing course is a site of active learning where students have responsibility for their own progress and for that of their peers. Students write formal papers for each major unit, in addition to various information writing

assignments and a culminating portfolio. This is a college course offered through Syracuse University, and students paying the (discounted) fee for SU credit will receive a Syracuse University Transcript.

### **3 Syracuse University Credits**

#### **WRT 114: Writing Culture: Intro to Creative Nonfiction - .5 Credit**

This course focuses on the genre of creative nonfiction. Students explore a variety of creative nonfiction such as memoir; biography; the personal essay; travel, science, and food writing; and “new journalism.” As its name suggests, creative nonfiction borrows elements from fiction and poetry (e.g. description, scene construction, dialogue, etc.) yet still aims to tell the truth. For a writer to “tell it slant,” however, is to acknowledge the ways in which one’s subjective viewpoint shapes what counts as “the truth” in telling a story about one’s own or another’s experiences. Students will have the opportunity to experiment with style, genre, and subject in a writing studio environment and to read varied examples of contemporary creative nonfiction. Students will craft and workshop their own creative nonfiction compositions. This is a college course offered through Syracuse University, and students paying the (discounted) fee for SU credit will receive a Syracuse University Transcript.

### **3 Syracuse University Credits**

Prerequisites- AP Language and Composition or teacher recommendation

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#### **Syracuse University Presentational Speaking – CRS 325- 1.0 Credit**

In today’s world, being able to use oral communication is essential to success in many careers and college courses. This course from Syracuse University Project Advance will help you to learn persuasive and informative speaking skills and use them in varying settings and situations in the future. The course has a focus on analysis, adaptation for settings and audience, strategic arrangement of information and the development of ideas, as well as verbal and nonverbal presentational skills. Students in both 11th and 12th grades can enroll in this course as an elective.

### **3 Syracuse University Credits**

#### **Journalism – 1.0 Credit**

Journalism is a full-year elective course. Students may take this in addition to their regular English class during their freshman through junior years, or they may choose this as their English credit for their senior year.

In today’s world, it is beneficial for students to learn how journalism works and what goes into creating a credible piece of writing for presentation to the readership. Students will learn and participate in:

- Understanding the history of American Journalism
- Understanding journalistic ethics and distinguishing responsible and irresponsible media
- Understanding how to write in a journalistic manner

- Understanding how to locate info from sources: database, interview, and investigation.
- Understanding how to revise and edit copy
- Understanding different forms journalistic writing
- Understanding layout
- Understanding design and using the computer
- Understanding types of advertisement for presentation

Prerequisite: Students must have completed their 9th grade English class.

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# SCIENCE

Description: A freshman entering Holland Patent High School after September 2016 must earn at least 3 credits in science to graduate. At least one science must be a life science and another must be a physical science.

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## **Living Environment - R - 1.0 Credit**

The course is designed to prepare students to explain, both accurately and with appropriate depth, the most important ideas about our living environment. The use of scientific inquiry is achieved within the laboratory program.

- Unity and diversity of life
- Ecology
- Human impact on ecosystems
- Genetics continuity
- Evolution
- Reproduction and development
- Homeostasis
- Scientific inquiry

Final Assessments: NYS Living Environment Regents Examination

Special Notes: \*The laboratory requirement for entry into a regents science examination is a minimum of 1200 minutes of hands-on lab work with satisfactory lab reports.

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## **Earth Science - R - 1.0 Credit**

This course is designed to give students an understanding of the Earth, the processes that shape the Earth and affect their everyday lives, and the solar system. Mathematical relationships and analytical thought are emphasized.

- Earth Models and Dimensions
- Deep Space
- The Solar System
- Earth in Space
- Energy and Earth Processes
- Insulation and the Earth's Atmosphere
- Meteorology
- The Water Cycle and Earth's Climates
- Weathering Erosion and Deposition
- Minerals and Rocks
- The Dynamic Crust and Earth's Interior
- Landscape Development
- Geologic History
- Astronomy

- Plate tectonic theory

Final Assessments: NYS Earth Science Regents Examination

Special Notes: \*The laboratory requirement for entry into a regents science examination is a minimum of 1200 minutes of hands-on lab work with satisfactory lab reports.

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### **Chemistry – R - 1.0 Credit**

This course is concerned with learning about and controlling chemical changes in matter and the accompanying changes in energy. It presents a modern view of Chemistry and is designed to prepare students for the Chemistry Regents examination.

- Atomic Concepts
- Chemical Bonding
- Kinetics and Equilibrium
- Acids, Bases and Salts
- Organic and nuclear chemistry
- Periodic table
- Moles and stoichiometry
- Physical Behavior of Matter
- Oxidation – reduction

Suggested Prerequisites: Integrated Algebra R

Final Assessments: NYS Chemistry Regents Examination

Special Notes: \*The laboratory requirement for entry into a regents science examination is a minimum of 1200 minutes of hands-on lab work with satisfactory lab reports.

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### **Physics – R - 1.0 Credit**

This course presents a modern view of physics with major emphasis on the fundamental concepts underlying this basic science.

- Mechanics
- Wave motion
- Electricity
- Magnetism
- Modern Physics
- Internal energy and heat
- Electromagnetic Energy

Final Assessment: NYS Physics Regents Examination

Suggested Prerequisites: Integrated Algebra R and Geometry R

Special Notes: \*The laboratory requirement for entry into a regents science examination is a minimum of 1200 minutes of hands-on lab work with satisfactory lab reports.

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### **Advanced Placement Biology - 1.0 Credit**

This course is designed to be the equivalent of a college introductory biology course. It provides students with the framework, scientific knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Topics covered include:

- Molecules and cells
- Heredity and evolution
- Organisms and populations

Final Assessment: Final Examination

\*The AP Examination is taken in May.

Suggested Prerequisites: Living Environment R and Chemistry R

Special Notes: This course has required laboratory experiences.

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### **Current Topics in Science - 1.0 Credit**

Students will be engaged in researching, discussing, and at times, presenting information on current science topics. Some of these topics will likely include the advancements in cold fusion, new viruses, global warming, space exploration and the limitations, medical breakthroughs, introduced species, genetic techniques, therapies, etc... Students will be given an opportunity to not only learn about topics, but to also discuss and maybe at times debate with each other.

Final Assessment: Final Examination or Summative Project

Suggested Prerequisites: 2 previous science credits

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### **Forensic Science - 1.0 Credit**

This course provides students with an introduction to forensic science and the various types of investigative techniques used in the field of forensic sciences. Students will learn how an investigator collects and analyzes evidence to use in the process of determining facts in an investigation.

Final Assessment: Final Examination or Summative Project

Suggested Prerequisites: 2 previous science credits

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### **Environmental Science - 1.0 Credit**

This course is a blend of a variety of science topics pulled from Earth Science, Chemistry, Physics and Biology. Topics covered include:

- Soils
- Water
- Fisheries
- Current Environmental Issues
- Wildlife
- Human Impact
- Forestry

Final Assessment: Final Examination

Suggested Prerequisites: 2 previous science credits

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### **Science 12 - 1.0 Credit**

This course is a physical or life, technical science that fulfills the third unit of science for students enrolled in a career and technical education program. This has been approved through Oneida-Madison-Herkimer BOCES by the New York State Education Department.

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### **Earth Science (Non-Regents)**

General Earth Science is a course that explains the interaction of different phenomena that occur on earth and in the universe. Basically, “It is real science that happens to real people.” Throughout the year, students will conduct activities to help build knowledge on topics such as: Intro to Earth Science, Mapping, Astronomy, Meteorology, Weathering and Erosion, Rocks and Minerals, Dynamic Earth, and Geologic History.

Counts as 1 full credit, 1 elective physical science

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### **SUPA Physics- SU College credit, 1 physical science elective credit**

This is the one-year introductory, non-calculus physics sequence. This algebra-based course includes a regularly scheduled lab and provides the necessary physics background for health professionals and others who need physics but are not required to take a calculus-based course. Students will learn about the physical world and how objects interact with one another. The course will deepen your understanding of physics and your scientific understanding of the universe. Students will be required to use critical thinking and problem solving skills in order to succeed.

**4 Syracuse University Credits**

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# SOCIAL STUDIES

**Students are required to earn four credits of Social Studies to meet the NYS Graduation Requirement.**

**9th Grade** Global History 9R or 9H

**10th Grade** Global History 10R or AP World History: Modern/MVCC HI 103 and HI 104

**11th Grade** US History 11R or AP US History/ MVCC American History I and II

**12th Grade** Government & Economics or MVCC Economics & AP Government

**Electives** MVCC Sociology and Psychology

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## **Global History & Geography 9 - R - 1.0 Credit**

Global History and Geography is the first of a two year sequence culminating in the Global History and Geography Regents Examination. A chronological approach to instruction is used.

Topics include:

- Political, economic, religious, social, and cultural aspects of Europe, Africa, Asia and Latin America from prehistory to the Age of Enlightenment.
- The First civilizations
- Classic Civilizations
- Political Power and Achievements
- Social and Cultural Growth and Conflict
- Ottoman and Ming Pre -1600
- Transformation of Western Europe and Russia
- Africa and the Americas Pre-1600
- Interactions and Disruptions
- Enduring issues - analyzing primary and secondary sources

Final Assessments: Final Examination

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## **Global History & Geography 9 – H - 1.0 Credit**

Similar to the Regent's level course, this course is designed to explore Global History and Geography in a chronological approach.

This course addresses Social Studies themes while practicing the skills and habits of mind in two categories: 1) those addressed by any rigorous history course, and 2) those addressed by a world history course. This class will introduce students to skills and topics that will be addressed in the AP World History:Modern class they will be enrolled in next year.

Topics include:

- Development of civilization
- Belief systems
- Classical civilizations
- Transregional trade networks

- Political powers and achievements
- Social and cultural growth and conflict
- Ottoman Empire and Ming Dynasty
- Africa and Americas (pre-1600)
- Transformation of Western Europe and Russia (1450-1750)
- Interactions and disruptions
- Enduring issues - analyzing primary and secondary sources

Final Assessment: Final Examination

Prerequisite- Middle School Teacher Recommendation

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**Global History & Geography 10 – R - 1.0 Credit**

This course is a continuation of Global History 9R

Topics include:

- The world in 1750
- Enlightenment, Revolution of Nationalism
- Causes and effects of the Industrial Revolution
- Imperialism
- Unresolved global conflict (1914–1945)
- Unresolved global conflict (1945-1991)
- Decolonization and Nationalism (1800-2000)
- Tensions between traditional cultures and modernization
- Globalization and changing global environment
- Human rights violations
- Enduring issues - analyzing primary and secondary sources

Final Assessments: NYS Global History & Geography Regents Examination

Prerequisite- Global 9R

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**Advanced Placement Modern World History/MVCC Hist of Western Civ. I & II - 1.0 Credit**

Similar to the Regent's course, this course is a continuation of Global History. However, the Advanced Placement course will proceed at a quicker pace and the depth of understanding, along with the expectations, are more rigorous. In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

This course addresses Social Studies themes while practicing the skills and habits of mind in two categories: 1) those addressed by any rigorous history course, and 2) those addressed by a world history course.

Topics include:

- Global tapestry
- Networks of exchange
- Land based empires
- Transoceanic interconnections
- Revolutions
- Consequences of Industrialization
- Global conflicts
- Cold War and Decolonization
- Globalization
- Enduring issues - analyzing primary and secondary sources

Final Assessment:

\* NYS Global History & Geography Regents Examination

\*MVCC approved midterm exam In January

\*The AP Examination is taken in May.

Prerequisite- Global 9H

## **6 MVCC Credits**

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### **U.S. History & Government 11 - R - 1.0 Credit**

This course examines the historic, political, social, economic and cultural development of the nation within the framework of the Declaration of Independence and the Constitution.

Topics include:

- Colonial Foundations
- Constitutional Foundations
- Expansion, Nationalism, and Sectionalism
- IPost Civil War (1865-1900)
- Industrialization and Urbanization (1870-1920)
- Rise of American Power (1890-1920)
- World War II (1935-1945)
- Cold War (1945-1990)
- Social and economic change/domestic issue
- The United States in a globalizing world

Final Assessments: NYS U.S. History & Government Regents Examination

Prerequisites: Global History 9 and 10

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## **Advanced Placement US History & Government/MVCC American History 1&2 - 1.0 Credit**

This college level course combines the U.S. History and Government course with study to prepare the student for the Advanced Placement Examination in American History. In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structure

Topics include:

- Analysis and discussion of current affairs
- Constitutional understandings and applications
- Exposure to precedent setting events
- Exploring primary documents
- Focus on continue to strengthen the habits of mind
- Analyze texts

Final Assessments:

\*U.S. History and Government Regents Examination

\*MVCC approved midterm in January

\*The AP Examination is taken in May

Special Notes:

- Documented research paper required

Prerequisites- Global 10 with teacher recommendation or AP World History

## **6 MVCC credits**

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### **MVCC Economics - .5 Credit**

A more intensive examination of the concepts studied in Economics 12. The goals of the course are:

- To develop an understanding of the role of economics in our society
- To increase student's appreciation for the significance of economic decisions both individually and collectively

Topics include:

- Economic Methods
- The U.S. Economic System
- Market Pricing
- The Consumer



- Business Firms and Market Structure
- Industry Performance
- Government and Business
- Labor and Income Distribution
- Money and Banking
- Economic Instability
- The Economy's Output
- Public Finance and Taxation
- International Trade and Finance
- Alternative Economic Systems

Final Assessments: Portfolio grade (based on 3 research papers or projects) - 50%

Final Examination – College approved examination

### **3 MVCC Credits**

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#### **Economics - .5 Credit**

Students learn to employ the basic economic concepts in decision making.

Topics include:

- Individual responsibility and the economy
- Individuals and businesses in the product and factor markets
- Impact of American Capitalism on global economy
- Tools of economic policy in global economy

Final Assessments: Final Examination

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#### **Government - .5 Credit**

This course covers the role of local, state and federal government in our lives and how Americans can influence the various levels of government to shape the nation in which we live.

Topics include:

- Foundations of American democracy
- Civil rights and civil liberties
- Rights, responsibilities and duties of citizenship
- Political and civic participation
- Public policy

Final Assessments: Final Examination

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### **Advanced Placement Government/MVCC Government - 1.0 Credit**

Advanced Placement US Government and Politics is a one year course. The purpose of the course is to have students understand and critically analyze key concepts in the structure of American Government and the American political process. AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

#### Course Objectives:

- Students will master a broad body of historical and political knowledge.
- Use historical data to support an argument or position.
- Interpret and apply data from original documents, including cartoons, graphs, letters, etc.
- Effectively use analytical skills of evaluation, cause and effect, compare and contrast, etc.
- Work effectively with others to produce products and solve problems.
- Learn and apply various study strategies to promote academic success.

#### Topics include:

- Foundations of American democracy
- Interactions among branches of government
- Civil rights and civil liberties
- American political ideologies and beliefs
- Political participation

\*Final Assessment: MVCC Final Examination

\*The AP Examination is taken in May.

Suggested Prerequisites: Teacher Recommendation and 85% cumulative average

### **3 MVCC credits**

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#### **MVCC Sociology - .5 Credit**

An introduction to sociology, the course affords a framework for students to recognize the relationships among many sociologic topics examined throughout the social studies program.

Themes include:

- Culture and Social Structure
- The Individual in Society
- Social Inequality
- Social Institutions
- The Changing Social World

Final Assessments: Final Examination

**3 MVCC Credits**

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**MVCC Psychology - .5 Credit**

This course is designed to familiarize students with the major divisions of psychology including:

- Physiology
- Learning
- Perception
- Motivation
- Emotion
- Personality
- Adjustment
- Abnormal Behavior

Attention is focused on the mastery of basic concepts and theories, along with supporting research and application.

Final Assessments: Final Examination

**3 MVCC Credits**

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# WORLD LANGUAGE

Regents/Local Diploma: One credit of foreign language is required to meet the NYS graduation requirement for the Regents and local diplomas. Regents Diploma with Advanced Designation: Three credits of foreign language and passing the Comprehensive Regents exam in the same language are required for the Regents Diploma with Advanced Designation.

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## **French & Spanish I (Middle School) - 1.0 Credit**

This course is an introduction to the language and culture of the foreign countries where the target language is spoken. This course is a continuation of French/Spanish 8 from the middle school

This course examines:

- Basic communicative skills through simulation of everyday language situations
- Basic elements of grammatical structure
- Basic writing and listening skills
- Acquisition of pronunciation and conversation skills in situational context
- Culture of target language introduced and enhanced with cultural realia

Final Assessments: Local Final Exam

Special Notes: Required for graduation unless the student has passed the Advanced Level 1 Course and Checkpoint Exam in the Middle School.

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## **French & Spanish II - 1.0 Credit**

This course is designed to expand on the first year of foreign language study and to increase student ability in the three types of communication areas (interpersonal, interpretive, and presentational) and in the following areas:

- Emphasis placed on conversation through vocabulary expansion
- Integration of more complex structures, such as the past tenses
- Listening and writing skills are also further developed
- Culture continues to be integrated and enhanced through cultural realia

Final Assessments: Local Final Exam

Prerequisite: Completion of Level I

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## **French & Spanish III - 1.0 Credit**

This course is designed to unify and expand on the first two years of foreign language study and

to increase student ability in the three types of communication areas (interpersonal, interpretive, and presentational) and in the following areas:

- Conversational emphasis placed on every day conversations and situations
- Comprehensive grammatical background further developed through the implementation of future and conditional tenses
- Focus on reading comprehension skills with focus on text in the target language
- Writing skills are fine tuned integrating the new grammatical tenses and satisfying the BOCES Regional Checkpoint requirements for a long essay response, and for a shorter, interpersonal response

Final Assessments: BOCES Checkpoint B Exam

Prerequisites: Completion of Level II

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### **MVCC French & Spanish 191/192 (Level 4) - 1 Credit**

This course is designed to expand on the first 3 years of foreign language study in the areas of culture and language for the foreign countries in which the target language is spoken.

Students are expected to:

- Develop speaking fluency through round table discussions and story recall
- Grammatical Tenses from Levels 1 - 3 are not only expanded on but added to in an advanced sense, with additions of irregulars and the Subjunctive Tense
- Writing skills are reinforced through thematic compositions which correspond with the literacy units and textual themes
- Authentic reading materials are used to build reading comprehension skills
- Further develop cultural awareness through written materials

Final Assessments: MVCC Final Examination

Prerequisites: Completion of Level III

### **6 MVCC Credits (MVCC FR 191/192, SP 191/192 )**

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### **MVCC French & Spanish 201/202 (Level 5) – 1 Credit**

This sequence continues the development of grammar, cultural understanding, reading, writing, and conversation skills, and is presented at an accelerated pace.

Students are expected to:

- Develop speaking fluency through daily discussions
- Projects developed to further cultural knowledge and presentations in the target language

- Writing skills are reinforced through lengthy compositions which correspond with the literacy units and current themes
- Authentic reading materials are used to build reading comprehension skills
- Further develop cultural awareness through written materials

Final Assessments: MVCC Final Examination

Prerequisites: Completion of Level 4 French or Spanish

### **6 MVCC Credits (MVCC FR 201/202, SP 201/202)**

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

ASL 1 is the first of a series of four sequential courses that will teach students introductory level vocabulary, basic grammar structure, Deaf history, and the cultural background needed to communicate with Deaf individuals. Instruction will include the language functions, asking for and giving information, making requests, giving directions, agreeing and disagreeing, expressing likes and dislikes as well as many other skills required to communicate on a novice level. ASL 1 offers students a variety of experiences that will develop their awareness of the world around them. Likewise, the multimedia exposure students experience in this class will help them better understand the Deaf culture. As the course is derived from the New York State Learning Standards for Languages Other than English, this course satisfies the criteria required by New York State to earn the Languages other than English (LOTE) course credit.\* The course is also aligned to the national proficiency guidelines published by the American Council on the Teaching of Foreign Languages (ACTFL).

Final Assessments: BOCES Checkpoint A Exam

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

ASL 2 is the second of a series of four sequential courses that will teach students introductory level vocabulary, grammar structure, Deaf history, and the cultural background needed to communicate with Deaf individuals. Instruction will include the language functions, asking for and giving information, making requests, giving directions, agreeing and disagreeing, expressing likes and dislikes, introducing classifiers and facial expressions as important components of ASL grammar, as well as many other skills required to communicate on a novice-high level. ASL 2 offers students a variety of experiences that will increase their awareness of the world around them. Likewise, the multimedia exposure students experience in this class will help them better understand the Deaf culture. This course is derived from the New York State Learning Standards for Languages Other than English. The course is also aligned to the national proficiency guidelines published by the American Council on the Teaching of Foreign Languages (ACTFL).

Final Assessments: Final Examination

Prerequisites: American Sign Language I

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### **American Sign Language III/ Herkimer College HU 100 - 1.0 Credit**

ASL 3 is the third of a series of four sequential courses that will teach students introductory level vocabulary, grammar structure, Deaf history, and the cultural background needed to communicate with Deaf individuals. Students will learn how to use various types of classifiers with complex grammar structures, learn to narrate compound situations that occur in everyday life, use advanced grammar structures and sentence types, and gain the confidence to interact in the Deaf community. ASL 3 is largely project based and centers around the interests and curiosities of students through a series of personalized projects. This course is derived from the New York State Learning Standards for Languages Other than English. The course is also aligned to the national proficiency guidelines published by the American Council on the Teaching of Foreign Languages (ACTFL).

Final Assessments: BOCES Checkpoint B Exam

Prerequisites: American Sign Language II

### **3 Herkimer College credits**

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### **American Sign Language IV/ Herkimer College HU 101 - 1.0 Credit**

ASL 4 is the final course in a series of four sequential courses that will teach students to develop advanced skills in American Sign Language. Through twelve units of study on topics such as Deaf Literature, Deaf refugees, Complex Classifiers, and Geographical signs, students will further develop previously learned skills as well as learn new skills in American Sign Language. Students will use presentational/expressive and receptive language skills to meet expectations. This course is derived from the New York State Learning Standards for Languages Other than English. The course is also aligned to the national proficiency guidelines published by the American Council on the Teaching of Foreign Languages (ACTFL).

Final Assessments: Final Examination

Prerequisites: American Sign Language III

### **3 Herkimer College credits**

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# MANDARIN CHINESE

Mandarin Chinese courses are offered via the Interactive Video Course program at Oneida-Herkimer-Madison BOCES. Our teachers are hosted in participating school districts and provide instruction both to local students as well as to students in other regions of New York State.

Mandarin Chinese is classified as a Category 4 language (difficult for native English speakers) due to the language's written characters and tonal pronunciation of words. As a result, OHM BOCES has created a non-traditional pacing to our Mandarin Chinese Course Sequence that includes an extra course to prepare for both the Checkpoint A and for our Checkpoint B examinations. This helps to ensure that each of our students develops appropriate levels of proficiency relevant to the World Languages standards of New York State. The course progression of our Mandarin Chinese Course Sequence is as follows:

- Level 1 is comprised of three courses (Checkpoint A exam)
- Level 2 is comprised of two courses
- Level 3 is comprised of one course (Checkpoint B exam)
- Level 4 is comprised of one course (AP exam optional)

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## **Mandarin Chinese Level 2A – 1.0 Credit**

This course is the first half of Level 2 Mandarin Chinese. The content is derived from the Checkpoint B World Languages standards of New York State. Students will spiral up knowledge and skills that they learned in previous courses, including topics such as school and family. They will continue to learn more new topics such as shopping and dining. Students will build upon vocabulary, grammar, and character writing. Students will be able to start and continue a short conversation with peers or native speakers. Likewise, students will begin to express themselves with some degree of fluency and fluidity in all four language skills of speaking, listening, writing, and reading. Lessons in the course have embedded Chinese culture throughout the course.

Final Assessments: Final Examination

Prerequisite: Chinese 1C

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## **Mandarin Chinese Level 2B – 1.0 Credit**

This course is the second half of Level 2 Mandarin Chinese. The content is derived from the Checkpoint B World Languages standards of New York State. Coming into the course, students



will have an advanced progression of skills, particularly in the writing and speaking of Mandarin Chinese. Students in Mandarin Chinese 2b will continue to build vocabulary, grammar, and character writing. Project based learning will be applied and learning will continue to go deeper based on the previous knowledge, such as on the topics of sports, health, and travel. Extended knowledge of the language will be demonstrated as students will be able to sustain lengthier conversations in the language as well as be able to write in Chinese with an element of fluidity and continuity. Lessons in the course have embedded Chinese culture throughout the course. Final Assessments: Final Examination

Prerequisite: Chinese 2A

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### **Mandarin Chinese Level 3/MVCC FL 111/112 – 1.0 Credit**

This course is designed to prepare students to meet the Checkpoint B World Languages standards of New York State. This focus of the course is on the advancement of the four primary skills of communication: speaking, listening, reading and writing. The course design helps students to increase proficiency levels so that they are capable of communicating with a native speaker in such areas as socializing, providing and obtaining information, expressing personal feelings or opinions, and getting others to adopt a course of action. Grammar and vocabulary are studied through a variety of activities that deal with these areas. Increased emphasis will be placed on the writing of Chinese characters to expand the student's ability to write and speak in Chinese, including an added emphasis on interpersonal communication. Lessons in the course have embedded Chinese culture throughout the course.

Final Assessments: BOCES Checkpoint B Exam

Prerequisite: Chinese Level 2B

### **6 MVCC Credits**

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### **Mandarin Chinese Level 4/MVCC 211/212/AP Mandarin Chinese – 1.0 Credit**

This course is the final course available in our Chinese language sequence and, as such, is our most-advanced course. Like Chinese Level 3, this course provides students the opportunity to earn dual credit. The course itself will continue to address the development of language proficiency on a variety of topics and in all three modes of communication: interpretive, interpersonal and presentational. The course is derived from the World Languages standards of New York State with the intention of developing students to the Checkpoint C Intermediate-Mid Performance Indicator. It is also aligned to the World Languages Standards and Proficiency Guidelines put forth by the American Council on the Teaching of Foreign Languages (ACTFL).

Students will continue to learn various aspects of contemporary Chinese society and Chinese culture and will deepen their understanding of these lessons through comparisons with their own culture.

Prerequisite: Chinese Level 3

Final Assessments: MVCC final exam and AP exam

**6 MVCC credits**

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# MATHEMATICS

Regents/Local Diploma: Students are required to earn three credits of Mathematics to meet the NYS Graduation Requirement. In addition, students must pass the Regents Examination benchmark in mathematics.

Regents Diploma with Advanced Designation: Students must also pass the Regents examinations in Geometry and Algebra 2.

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## **Algebra 1 - 1.0 Credit**

This full year course is designed to provide basic algebra skills.

Topics included in this course are:

- Translating verbal expressions and sentences
- Functions
- Rational numbers
- Solving equations and inequalities,
- Graphs and functions
- Linear equations and graphs
- Systems of equations and inequalities
- Exponents and exponential functions
- Polynomials

Final Assessments: Final Examination

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## **Algebra CC - 1.0 Credit**

This full year course is designed to provide a complete understanding of algebra.

Topics included in this course are:

- Linear Inequalities
- Systems of Linear Equations
- Operations on Polynomials
- Factoring Polynomials/ Simplifying radical Expressions
- Solving Quadratic Equations
- Quadratic Functions
- Exponential Functions
- Arithmetic and Geometric Sequences
- Extending Functions- Absolute Value Functions, Square Roots Functions, Cubic Functions, Cubed Root Functions, Piecewise Functions, Step Functions
- Statistics and Interpreting Data

Final Assessments: NYS Regents Examination in Algebra 1. Passing this exam is required for graduation.

Prerequisites: Completion of Algebra 1

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### **Algebra CC R - 1.0 Credit**

Algebra is the first commencement level mathematics course in the high school. The algebra course set forth here is not the algebra of 30 years ago. The focal point of this course is the algebra content strand of the common core curriculum. Algebra provides tools and ways of thinking that are necessary for solving problems in a wide variety of disciplines, such as science, business, social sciences, fine arts, and technology. This course will assist students in developing skills and processes to be applied using a variety of techniques to successfully solve problems in a variety of settings.

Topics included in this course are:

- Foundations of Algebra and Introduction to Equations
- Linear Functions and Inequalities
- Systems of Linear Equations
- Operations on Polynomials
- Factoring Polynomials/ Simplifying radical Expressions
- Solving Quadratic Equations
- Quadratic Functions
- Exponential Functions
- Arithmetic and Geometric Sequences
- Extending Functions- Absolute Value Functions, Square Roots Functions, Cubic Functions, Cubed Root Functions, Piecewise Functions, Step Functions
- Statistics and Interpreting Data

Final Assessments: NYS Regents Examination in Algebra 1. Passing this exam is required for graduation.

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### **Geometry - 1.0 Credit**

This full year course is designed for the student that has successfully completed Algebra 1.

Topics included in this course are:

- Geometry vocabulary
- Theorems
- 3-dimensional space
- Angle Relationships
- Properties of Parallel and Perpendicular lines
- Equations of Parallel and Perpendicular lines
- Characteristics of Polygons

- Measurement including Area of Polygons and Volume of Three-Dimensional Shapes
- Proportional Reasoning
- Similarity of Figures
- Circle Relationships
- Coordinate Geometry
- Transformations
- Right Triangle Trigonometry
- Pythagorean Theorem

Final Assessments: Final Examination

Prerequisites: Completion of Algebra CC or Algebra CC R

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### **Geometry R - 1.0 Credit**

Geometry is the second commencement level mathematics course in the high school. There is no other school mathematics course that offers students the opportunity to act as mathematicians. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences.

Topics included in this course are:

- Foundations of Geometry
- Constructions
- Geometric Reasoning
- Parallel and Perpendicular Lines
- Triangle Congruence
- Properties and Attributes of Triangles
- Polygons and Quadrilaterals
- Transformations using Rigid Motions
- Similarity and Dilations
- Right Triangles and Trigonometry
- Extending Perimeter, Circumference, and Area
- Solid Geometry
- Circles

Final Assessments: NYS Regents Examination in Geometry

Prerequisites: Completion of Algebra CC R

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### **Business Math - 1.0 Credit**

This full year course is designed as a third credit of math intended for students who have taken and passed Algebra and Geometry but do not feel quite ready for Algebra 2. This course will provide students with an opportunity to learn real world applications of mathematics that they will need to use in the future. Successful completion of this course should help to prepare students to take Algebra 2 or achieve an appropriate math placement test score to take MVCC Intermediate Algebra (MA115).

Topics included in this course are:

- Interest Rates
- Purchasing a Car
- Purchasing a Home - Mortgage
- Credit Cards
- Bank Accounts
- Investing
- Insurance
- Factoring Quadratics
- Solving Quadratics
- Systems of Equations
- Intro to Functions
- Radicals and Radical Equations
- Rational Equations

Final Assessments: Final Examination

Prerequisites: Completion of Geometry, Geometry R, or Algebra CC

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### **Algebra 2 R - 1.0 Credit**

Common Core Algebra 2 is the capstone course of the three units of credit required for a Regents diploma. This course is a continuation and extension of the two courses that preceded it. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. A major focus of this course is the use of developing algebraic techniques to facilitate rewriting mathematical expressions into multiple equivalent forms.

Topics included in this course are:

- Functions - Notation, Composition, Inverse, One-to-One
- Linear Functions - Average Rate of Change, Piecewise, Systems of Equations
- Exponentials - Equations, Real Life Situations, Growth and Decay
- Logarithms - Laws, Equations, Real Life Situations
- Sequences and Series - Arithmetic and Geometric
- Complex Numbers
- Quadratic Functions - Factoring (various forms), Inequalities, Equations, Completing the Square, Quadratic Formula, Graphing

- Radicals - Simplifying, Powers, Equations
- Transformations of Functions
- Polynomial Functions - Zeros, Long Division
- Rational Functions - Simplifying, Operations, Equations, Inequalities, Complex Fractions
- Trigonometry - Circular Functions, Graphing
- Statistics
- Probability

Final Assessments: NYS Regents Examination in Algebra 2

Prerequisites: Completion of Algebra CC R and Geometry R

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### **MVCC Elementary Statistics (MA 110) - .5 Credit**

This course introduces probability and statistics. Students will learn about different types of graphs, tables, relationships in different types of data, and inferential statistics.

Topics included in this course are:

- Sampling
- Graphical Summaries of Data
- Frequency Distribution
- Numerical Summaries of Data
- Measures of Central Tendency
- Summarizing Bivariate Data
- Correlation
- Probability
- Discrete Probability Distributions
- Normal Distribution
- Confidence Intervals
- Hypothesis Testing

Final Assessment: Final Exam

Prerequisite: Appropriate placement on MVCC Placement Test

### **3 MVCC Credit Hours**

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### **MVCC Intermediate Mathematics (MA 115) - .5 Credit**

This one semester course introduces intermediate algebra level knowledge and skills as well as applications.

Topics included in this course are:

- Real number system
- Equations and inequalities
- Graphs of linear equations and functions
- Systems of linear equations
- Exponents
- Polynomials and polynomial functions
- Factoring
- Rational expressions and functions
- Roots, radicals and root functions
- Solving quadratic equations

Final Assessments: Final Examination

Prerequisite: Appropriate placement on MVCC Placement Test

#### **4 MVCC Credit Hours**

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#### **MVCC College Algebra and Trigonometry (MA 125) - .5 Credit**

This one semester course prepares students for Pre-Calculus through the more advanced study of algebra and trigonometry.

Topics included in this course are:

- Linear and Quadratic equations
- Inequalities
- Rational expressions
- Trigonometric functions
- Graphs of linear, quadratic, piecewise and trigonometric functions
- Systems of equations
- Algebraic and trigonometric manipulations
- Problem solving

Final Assessments: Final Examination

Prerequisite: Appropriate placement on MVCC Placement Test or MVCC Intermediate Algebra (MA115)

#### **4 MVCC Credit Hours**

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#### **MVCC Pre-Calculus (MA 150) - 1 Credit**

This full year course prepares students for calculus through a study of the properties and graphs of polynomial, rational, trigonometric, inverse trigonometric, exponential and logarithmic functions. Emphasis is placed on the function concept and the appropriate use of the language of mathematics.



Topics included in this course are:

- Functions and Their Graphs
- Linear and Quadratic Functions
- Polynomial and Rational Functions
- Exponential and Logarithmic Functions
- Trigonometric Functions
- Analytical Trigonometry
- Conic Sections
- Systems of Equations and Inequalities

Final Assessments: Final Examination

Prerequisite: Appropriate placement on MVCC Placement Test or MVCC College Algebra and Trigonometry (MA125)

#### **4 MVCC Credit Hours**

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#### **Advanced Placement Calculus AB/ MVCC Calculus I (MA 151) - 1.0 Credit**

Advanced Placement Calculus is a one year course equivalent to the first of the series of college Calculus courses. Students will explore the concepts, methods, and applications of differential and integral calculus. Students will work to understand the theoretical basis and solve problems by applying their knowledge and skills.

Topics included in this course are:

- Limits and Continuity
- Differentiation
  - Definition
  - Fundamental Properties
  - Composite, Implicit, and Inverse Properties
  - Contextual Applications
  - Analytical Applications
- Integration and Accumulation of Change
- Differential Equations
- Applications of Integration

Final Assessments: Final Examination and AP Examination is Taken in May

Prerequisites: MVCC Pre-Calculus (MA150)

## **4 MVCC Credit Hours**

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### **Mathematics 12 - 1.0 Credit**

This course is an integrated, technical math course that fulfills the third unit of math for students enrolled in a career and technical education program. This has been approved through Oneida-Madison-Herkimer BOCES by the New York State Education Department as being above Algebra I.

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# Business Education

## **MVCC Computers and Society IS 101 – .5 Credit**

This MVCC course provides knowledge of relevant computer skills and a solid foundation in the terminology and concepts of computers. Experience is provided with a variety of microcomputer software applications, including word processing, electronic spreadsheets, graphics, file management, and integrated software. Concepts and terms focus on preparing for a technologically oriented society and using the computer as a tool for productivity, research and communication.

Final Assessments: Final Examination

## **3 Credit Hours MVCC**

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## **MVCC Personal Finance BM 108 – 1.0 Credit**

This full year course teaches the fundamentals of personal finance. Students learn how to create a financial plan, manage personal finances and reach personal financial goals. Topics include: establishment of financial objectives (home ownership, education, and retirement), budgeting and savings, the management of credit, personal income tax, investments, insurance, retirement and estate planning.

Final Assessment: Final Exam

## **3 Credit Hours MVCC**

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## **Introduction to Business BM100 – .5 Credits**

This course will provide a fundamental understanding of business management and analyze the relationships among social, political, economic, legal, and environmental forces in the development of a business or industry within the global economy. Students will complete individual, group, and project based assignments to develop their understanding of the course material. Topics will include an overview of the concepts and principles of the subfields of:

- Management
- Finance
- Marketing
- Law
- Ethics
- Human resources
- Internet research
- RPG Simulations

**Final Assessment: MVCC BM 100 Final Exam**

**Prerequisite: None**

**3 MVCC Credits**

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### **Keyboarding AA111 – .5 Credits**

This course will introduce students to proper keyboarding techniques, assist in building speed and accuracy in typing, and provide practice in formatting personal and business documents. Primary focus will be spent on developing student skills with Microsoft and Google line of products. Students will learn about the evolution of computer technology through human history, the various forms of computer hardware and software, and selecting a computer and device for optimal performance based on needs and wants of the user. Topics will include:

- Evolution of Computer Technology
- Computer Functions
- Touch Typing
- Improving Typing Speed
- Word Processing
- Spreadsheet Applications

### **Final Assessment: MVCC Keyboarding Final Exam**

**Prerequisite: None**

**3 MVCC Credits**

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### **Business Entrepreneurship BM150 – .5 Credits**

This course is designed to provide a basic understanding of entrepreneurship and the challenges of starting and operating a small business. Emphasis is placed on creating and successfully leading a business entity by developing a sustainable competitive advantage. Students will complete individual, group, and project based assignments that allow students to develop a legitimate business plan for their ideas. Topics of study will include:

- Functions of Management
- Forms of Business
- Developing Graphic Files
- Identifying and Leveraging Business Opportunities
- Capital formation
- Start-up issues
- The need for social responsibility and ethics
- Developing Network Relationships

### **Final Assessment: MVCC Business Final Exam**

**Prerequisite: None**

**3 MVCC Credits**

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### **Senior Seminar: .5 Credits**

This course will aid students in making and achieving personal, career, and college goals through class lessons, projects, and guest speakers. Senior Seminar will prepare students for the next chapters in life; starting from preparation and progression of the senior year, planning your first year after high school, and developing a five and ten year plan for success. Various paths will be analyzed, including the concepts of post-secondary education (college), a career path, or

becoming a member of the armed forces. Over the course of the year, students will learn skills related to:

- Self-Advocacy
- Mental and Personal Health
- Resume and Cover Letter Building
- Career and College Exploration
- Banking and Financial Literacy
- Life Skills
- Home Maintenance and Repair
- Diversity and Travel
- Community Service

**Final Assessment: Senior Seminar Portfolio**

**Prerequisite: None**

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# Technology Education

## **MVCC AutoCAD (MT 140) – .5 Credit**

This half year course provides the foundation and problem-solving skills necessary to develop and interpret engineering drawings using the computer-aided drafting software (AutoCAD). Topics include assembly and detail drawing composition; dimensioning and tolerancing; functional drafting techniques; and the development of 2D and 3D CAD generated drawings.

**Final Assessment: Final Exam**

**Prerequisite: None**

**3 Credit Hours MVCC**

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## **MVCC Advanced AutoCAD (MT 251) – .5 Credit**

This half year course presents advanced AutoCAD software and concepts. The basics of 3D techniques, presentation graphics, rendering, and solid modeling are stressed. It includes the creation of individual parts and multi-part assembly drawings.

**Final Assessment: Final Exam**

**Prerequisite: MVCC AutoCAD MT 140**

**3 Credit Hours MVCC**

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# Agriculture Education

## **Agriculture Business/Leadership - 1 Credit**

Capstone course for students in grades 11-12. Students should have taken at least two other credits in agriculture prior to taking this course. This course focuses on the core concepts of business including marketing, business management, employability skills, resume building, marketing, communication, loans, and the decision making process as they relate to agriculture.

FFA Competitions that align with Agriculture Business/Leadership:

- Employment Skills
- Prepared Public Speaking
- Extemporaneous Speaking
- Parliamentary Procedure
- Farm and Agribusiness Management
- Agricultural Communications
- Agricultural Sales
- Marketing Plan

Final Assessment: Presentation and competition at State FFA Convention in one of the following: Marketing Plan, Farm & Agribusiness Management, Agriculture Sales or Agricultural Communications.

## **SUNY Cobleskill Dual-Credit Course 3 Credits**

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### **Field Crop and Soil Science - 0.5 Credit**

Offered to students grades 9-12

This course provides students with the basic concepts of soil science, field crop production and agronomic principles. Students will be exposed to the basics of the agriculture industry in New York and across the nation including topics in FFA, Field Crop Production, Soil Health, Mechanics and Farm Equipment, Environmental Science, Precision Technology in Agriculture, and Leadership.

Final Exam: Written Exam and Field Trip Report (Field Trip Location TBD).

**Students may also participate in the following FFA Competitions related to the content: Agronomy, Nursery and Landscape, and Tractor Driving.**

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### **Animal Science - 1 Credit**

Offered to students grades 9-12

This course focuses on the basic principles of animal care, handling, welfare and health. Livestock animals including cows, horses, goats, pigs, chickens, and sheep will be the main focus, with a smaller focus on companion and small animals including dogs and cats. Topics will include animal health, clinical exams, anatomy and physiology of livestock animals, parasitology, new technologies, nutrition, reproduction and housing for each of these animals.

FFA Competitions that align with Animal Science Related Courses:

- Dairy Cattle Evaluation and Management
- Dairy Cattle Handlers
- Horse Evaluation
- Livestock Evaluation
- Veterinary Science
- Poultry Science
- Agriscience Fair Projects
- Meat Science and Technology

Final Assessment: Final Exam

**SUNY Cobleskill Dual-Credit Course 3 Credits**

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### **Plant Science - 1 Credit**

Offered to students grades 9-12

This course explores all areas of plant science as it relates to agriculture. Our main focus will be spent on current and relevant horticultural and agronomic practices. This includes plant genetics, plant nutrition, plant growth, soil science, field crops, new research and technology, and plant development in addition to floral design, landscaping, orchard management, turf grass management and greenhouse management. Floral design will be a critical component to this course.

FFA Competitions that align with Plant Science related courses:

- Floriculture
- Vegetable Crops and Horticulture (NY Only)
- Nursery and Landscape
- Agriscience Fair Projects
- Agronomy

Final Assessment: Final Exam or Participation on the Chapter's Floriculture Team at State FFA Convention.

**SUNY Cobleskill Dual-Credit Course 3 Credits**

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### **Dairy Science - 0.5 Credit**

Offered to students grades 9-12



Given that Dairy Production is far and away the greatest agriculture industry in NYS, all students involved in agriculture should have a basic understanding of dairy cattle production. This course provides students with the basic concepts of dairy management, field crop production, calf and replacement cow management, transition cows and potential health problems, nutrition of dairy cows, dairy cattle judging, and evaluations of farms through Case Studies.

Final Exam: Written Exam and Field Trip Report (Field Trip Location TBD).

**Students may also participate in the following FFA Competitions related to the content: Agronomy, Dairy Cattle Evaluation and Management, Dairy Cattle Handlers.**

# Art Education

## **Studio in Fine Arts - .5 Credit**

Students are introduced to and explore 2 dimensional media for half of the year and 3 dimensional media for the other half. Students develop skills using various tools and materials and develop appreciation for artwork of the past and present. This course offers a wide variety of experiences on a full year, every other day basis to accommodate students with diverse schedules.

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## **Studio in Digital Arts - .5 Credits**

Students are introduced to and explore photography, graphic design and 3D printing. Visual communication is emphasized as well as methods, strategies and techniques for creating original artwork. This course offers a wide variety of experiences on a full year, every other day basis to accommodate students with diverse schedules.

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## **Drawing/Painting I/II/III - 1 Credit**

Students are exposed to a wide range of drawing techniques using a multitude of drawing materials. Students produce works from observational study of figure, still-life, landscape and media sources. Drawing, watercolor, acrylic, oil and printmaking processes are introduced. Students also have the opportunity to explore personal directions within the mediums of their choice. Levels II and III are geared toward students pursuing art at the college level. These students are introduced to advanced techniques and materials; they must be capable of working independently and are responsible for focusing on portfolio development and college admission in the art area. Level II and III students must be recommended/approved by the instructor.

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## **MVCC (FA 101) General Drawing - .5 Credit**

This level II and III course introduces the tools, media, and theory used in drawing for visual communication. Coursework includes both the study of fundamentals of perspective and the theory of light and shade, as well as survey a graphic representation. Classroom work consists of drawings that show line, value, tone, form, texture, space, and proportion.

## **3 MVCC credits with MVCC FA 105**

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## **MVCC (FA 105) Foundation Design - .5 Credit**

This level II and III course introduces the visual elements and principles of design. Emphasis is placed on compositional concepts and the mastery of a visual language. Course projects explore a variety of media, processes, and techniques to provide a broad view of visual problem solving.

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### **3 MVCC credits with MVCC FA 101**

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#### **Sculpture/Pottery I/II/III - 1 Credit**

Students have the opportunity to explore the medium of clay through multiple techniques. Students receive an introduction to pinch, slab, throwing and coiling techniques. Surface exploration like glaze, underglaze and slip is also addressed. Students are introduced to additive and subtractive sculpture with clay, wood and rock. Students explore the functional and sculptural aspect of form. Levels II and III are geared toward students pursuing art at the college level. These students expand techniques, explore self-directed problems and produce a series for a college portfolio presentation; they must be capable of working independently and are responsible for focusing on portfolio development and college admission in the art area. Level II and III students must be recommended/approved by the instructor.

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#### **Photography I/II/III - 1 Credit**

Students are exposed to photography as fine art as well as a medium intended to communicate and persuade. The emphasis is on acquiring necessary skills, understanding the technical and compositional aspects of photography and creatively using the camera and related software. Students are responsible for understanding the basic operations and functions of digital cameras. Traditional black and white film developing, darkroom techniques and SLR camera operation are introduced at level II. Level II and III students build on the body of knowledge acquired at level I, expand techniques, explore self-directed problems, and create a variety of photographic presentations to build a diverse portfolio. Levels II and III are geared toward students pursuing art at the college level. Students must be capable of working independently and must be recommended/approved by the instructor.

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#### **Graphics I/II/III - 1 Credit**

Students are introduced to art intended to communicate information and influence the consumer. The focus is on studying and using typography and layout and design concepts applicable to creating 2D and 3D designs. Students create illustrations, animations, photo manipulations and commercial artworks. Technical proficiency in the use of graphics software, knowledge of methodology of graphic design and demonstration of problem solving skills are emphasized. Students also gain real-life experience working with clients in the community. Level II and III students build on the body of knowledge acquired at level I, concentrate on expanding their technical skills and creativity, and developing a professional level portfolio. Levels II and III are geared toward students pursuing art at the college level; these students focus on portfolio development and college admission in the art area. Level II and III students must be recommended/approved by the instructor.

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### **MVCC (GD 145) Digital Applications - 1 Credit**

A level II/III course focusing on contemporary text manipulation, digital imaging, and digital illustration software. Students produce projects demonstrating their knowledge of both the software and the interfaces between page layout, raster graphics, and vector graphics. Technical proficiency in the use of graphics software, knowledge of methodology of graphic design and demonstration of problem solving skills are emphasized.

**3 MVCC credits**

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### **Design Media Exploration - 1 Credit**

A level III crossover course that blends fine and digital arts. The course is coordinated and co-taught by high school instructors. Students are responsible for having previously taken at least one digital and one fine art class. By combining technology and creative art, students grow by expanding the possibilities of media and material. Careers in multimedia such as installation art, design, video and special effects are explored.

### **MVCC FA 100 Creativity in Art- 1 Credit**

This level III course introduces students to the fundamentals principles of creativity with an emphasis on understanding historically significant art styles. Students explore various types of visual expression and apply creative problem-solving to both two-dimensional and three-dimensional projects in a variety of media. Students are introduced to the masters, practices, and careers of painting, sculpture, graphic arts, graphic design, animation, film, digital media, illustration, and photography.

**3 MVCC credits**

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# Physical Education

**P.E. is required for each year of attendance in school, 1/2 unit is awarded for successful participation in the course. Grade 9 includes required instruction in swimming. Grade 11 and 12 include some selection of a variety of activities.**

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## **Health - .5 Credit**

Health is a required course for all students in order to graduate. It is strongly recommended that students take Health prior to their junior year. The focus on the class is to evaluate, develop and implement strategies for a healthier life. Projects are designed to encourage students to evaluate their healthy and unhealthy behaviors and make changes that will last a lifetime. Topics covered include wellness, stress management, nutrition, drugs, diseases, human sexuality, first aid and safety.

Final Assessments: Final Examination

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## **Physical Education - .5 Credit**

Course emphasis is on cardiovascular fitness through participation in lifetime, team and individual sports involvement. Team strategies and individual skills are taught with the successful completion of an aquatics experience required. Many options are available to students on an elective basis.

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## **Lifeguarding - .5 Credit**

Course content is directly taken from the American Red Cross Lifeguarding Curriculum. Participation will require the purchase of textbooks and manuals which become the property of the student. Successful completion will result in receiving an American Red Cross Lifeguarding certificate.

Prerequisite: Successful completion of swim stroke development course, pass a swimming pretest evaluating breast stroke, elementary backstroke, sidestroke and front crawl.

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# Music Education

The Holland Patent Music Department is committed to developing musical excellence in all students through a variety of musical activities. All students will be given every opportunity to develop their musical skills and talents through a 9-12 performance arts program as a participant in orchestra, band, and choral ensembles. The Holland Patent Music Department believes that every child is capable and will achieve musical success.

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## **Chamber Orchestra - .5 Credit**

Chamber Orchestra is open to all string students in grades 9-12. The orchestra performs a variety of music including classical, popular, and contemporary pieces. Requirements include attendance at all performances and lessons. Grading is based on participation and performance in orchestra rehearsals, concerts, lessons, and playing assessments. The orchestra is a level 3 ensemble and performs at the Veterans Day, Winter, and Spring concerts, and is evaluated at NYSSMA Majors.

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## **Wind Ensemble - .5 Credit**

Wind Ensemble is open to all band students in grades 9-12. Performance repertoire includes classical, popular, and contemporary pieces. Requirements include attendance at all concerts and weekly lessons. Grading is based on participation and performance at concerts, rehearsals, and a playing assessment. The level 4 ensemble performs at the Veterans Day, Winter, and Spring concerts, and are evaluated yearly at NYSSMA Majors.

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## **High School Mixed Chorus - .5 Credit**

The High School Mixed Chorus is open to all students from grades 9-12. Students are given the opportunity to study and perform a variety of repertoire including classical, patriotic, jazz, a cappella, gospel, and contemporary pieces as well as songs in different languages. Requirements include attendance at all performances and lessons. Grading is based on participation and performance in rehearsals, concerts, lessons, and playing assessments. Chorus members perform at the Veterans Day, Winter, Spring, and Young People's concerts. They also attend NYSSMA Majors for a rating and evaluation.

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## **High School Select Chorus - .5 Credit**

The High School Select Chorus is open to students in grades 9-12. Select Chorus is an additional opportunity for students to perform in a smaller setting. Students are given the opportunity to study and perform a variety of repertoire including classical, patriotic, jazz, a cappella, gospel, and contemporary pieces as well as songs in different languages. Requirements include attendance at all performances and lessons. Grading is based on participation and performance in rehearsals, concerts, lessons, and playing assessments. Chorus members perform at the Veterans Day, Winter, and Spring, and Young People's concerts.

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### **AP Music Theory/MVCC Music Appreciation HU 183 - 1 Credit**

AP Music Theory is a course designed to develop each student's comprehensive musicianship. To achieve this goal, various exercises, including listening, performance, writing, and analysis, will develop each student's aural, written, and analytical musical skills. A wide variety of tonal music repertoire, from Baroque to modern day music, will be used to reinforce topics. It is intended that the knowledge gained from this course will be practically applied in the interpretive decisions students make as a performer, the critical choices they make as listeners, and the informed opinions they share with others. Students are eligible to receive 3 college credits through MVCC's HU 186 Music Appreciation class and an additional 3-6 based on their AP Music Theory exam score.

### **3 MVCC Credits**

\*The AP exam is taken in May

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### **Guitar 101 - .5 Credit**

Guitar 101 is an elective course offered by the Music Department that is available to all students regardless of their music education background and experiences. Students will learn the basics of playing the guitar throughout the course. This includes, but is not limited to, learning the anatomy of the instrument, proper classical playing posture, music notation in the form of standard notation and tablature, chords and melodies, finger picking and alternate/flatpicking. A wide variety of music will be studied to teach and reinforce the technical aspects of guitar playing, including classical, folk, and contemporary selections.

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### **Guitar II - .5 Credit**

Guitar II is an elective course offered by the Music Department that is available to all students who have completed Guitar 101. Students will expand upon the knowledge and skills learned in Guitar 101 to perform more complicated musical passages, higher-level techniques, and more. Students in Guitar II are expected to perform in 1-2 musical events throughout the school year for a performance grade (typically Hallway Caroling and Cabaret).

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