

Hoosic Valley Central School District

Program Planning Guide 2017-2018



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INTRODUCTION

The Hoosic Valley Central School District hereby advises students, parents, employees and the general public that it offers employment and education opportunities, including vocational education opportunities, without regard to sex, race, color, national origin or handicap. Inquiries regarding this nondiscrimination policy may be directed to the Section 504 coordinator.

This Program Planning Guide is prepared to acquaint you with the course offerings, description, and prerequisites of subjects taught at Hoosic Valley Junior-Senior High School. Your guidance counselor is anxious to assist you so that you understand how to select your courses to meet your particular career/college goals.

You are asked to proceed as follows in selecting your courses:

- Review the Program Planning Guide with particular attention to graduation requirements.
- Be sure to visit your guidance counselor to help with your decisions.
- Study the course offerings. After you consider the courses you have already taken, circle the courses you wish to take on the Course Selection Sheet. A graduation requirement checklist is provided.
- Meet with your current teachers to learn more about the particular subject you have selected and obtain their endorsement on your selection sheet.
- Discuss your program with your parents, obtain their signature, sign the form yourself and return it to your guidance counselor.

PAY PARTICULAR ATTENTION TO DEADLINES.

PROGRAM CHOICE

In choosing your courses be sure that you will qualify for graduation. To qualify for a diploma you must earn a certain amount of credits, complete specific courses and pass certain regents exams. A credit is earned by successfully passing a course which meets for 40-weeks. Half credits and quarter credits are awarded for courses meeting for proportionate amounts of time. The basic requirements are summarized on page 7.

Availability of all elective offerings is subject to enrollment.

SCHEDULING

Planning your program should follow certain guidelines. Some of these should be the result of your own ideas about yourself and your future. Others are the result of school policies and practices. These latter guidelines are:

- A. Each student must be scheduled for at least 5 credits including physical education. In grades 11 and 12 a student may schedule as few as four subjects if such students have permission for early release for employment and providing all graduation requirements are met.
- B. Each senior must be scheduled for one credit in English, one credit in Social Studies, and a PE class each semester. **CAREFULLY CHECK YOUR SCHEDULE.**
- C. Doubling up in a core subject area, such as taking two math courses the same year, is generally not allowed. Students with extremely unusual circumstances should see their guidance counselor as soon possible.
- D. Students enrolling in Hudson Valley Community College or Syracuse University (SUPA) courses must also register with the college for college credit. Any student who is not registered for college credit on the last date for allowed tuition payment will be dropped from the course and placed in a study hall.

HOMEROOMS

High school students will be assigned to sophomore, junior and senior homerooms on the basis of the number of credits earned:

Sophomore	5 Credits
Junior	11 Credits
Senior	16 Credits

Candidates for graduation will be assigned to senior homerooms if successful completion of their schedules would permit them to earn enough credit to graduate.

GUIDANCE SERVICES

The objectives of the Guidance Program are to assist students with the setting of educational and career goals that aid students in becoming responsible adults. The Guidance Department has developed a number of strategies to meet these objectives:

1. Academic Planning
 - a. Conduct an annual review of each student's educational progress and career plans
 - b. Assist students in making decisions regarding course and sequence selection
 - c. For students who are at risk for course failure, the guidance staff works in conjunction with classroom teachers in making recommendations for improving study skills and classroom performance
2. Career & Life Planning
 - a. Discuss and track career/post-graduate plans
 - b. Complete online Interest Inventory
3. Individual Counseling
 - a. Assist students in making college and career plans
 - b. Assist students with any personal problems or issues that may interfere with their ability to learn.
4. Academic Advising and Support
 - a. Conduct individual and group conferences with parents, students and teachers
 - b. Assist students in the areas of personal growth and development
 - c. Make referrals to other pupil personnel members, community, state or federal agencies
 - d. Help teachers enhance the learning opportunities for students
5. Administrative
 - a. Assist Administration with the master schedule
 - b. Maintain the computerized grade reporting system
 - c. Print and distribute report cards

- d. Participate in committees beyond the scope of the guidance office
- e. Lend assistance to the administration and faculty in the day-to-day operation of the school

Ms. Becky Kellerhouse, Counselor

Ms. Kristin Guba, Counselor

Mrs. Jill Anderson, Guidance Secretary

PROGRAM PLANNING GUIDE

COURSE AND TESTING REQUIREMENTS

Advanced Regents Diploma

Course Requirements

Students must earn the following course credits in order to graduate with an Advanced Regents Diploma:

● English	4
● Social Studies	4
● Math	3
● Science (1 Life, 1 physical, 1 either)	3
● Language Other Than English (LOTE)	3
● Fine Arts	1
● Health	0.5
● Physical Education	2 (.5/year)
● Electives	<u>1.5</u>

TOTAL CREDITS 22

Testing Requirements

9*-With a score of 65 or better

1-ELA
3-Math
2-Science (1 Life, 1 Physical)
1-Global History and Geography
1-US History and Government
1-Locally Developed LOTE

* An honors designation is applicable to the diploma for students who earn a computed average score of 90 on all of the Regents exams.

Regents Diploma

Course Requirements

Students must earn the following course credits in order to graduate with a Regents Diploma:

● English	4
● Social Studies	4
● Math	3
● Science (1 Life, 1 physical, 1 either)	3
● Language Other Than English (LOTE)	1
● Fine Arts	1
● Health	0.5
● Physical Education	2 (.5/year)
● Electives	<u>3.5</u>

TOTAL CREDITS 22

Testing Requirements

5*-With a score of 65 or better

1-ELA
1-Math
1-Science
1-Global History and Geography
1-US History and Government

* An honors designation is applicable to the diploma for students who earn a computed average score of 90 on all of the Regents exams.

An integrated course in Mathematics/Science/Technology may be used as the third required unit of credit in Mathematics or Science

FREQUENTLY ASKED QUESTIONS

Is it possible to get a Regents or Advanced Regents diploma and go to VOTEC?

Yes

If I have passed a Regents Exam, may I retake the Regents to improve my grade?

Yes. If you score higher on the exam the higher grade will appear on your transcript.

Are there minimum numbers of classes that a student must be enrolled in?

Each student should be taking at least 5 classes including physical education.

What about 5th year senior status?

A 5th year student is a student who has completed 4 years of high school and needs only certain classes to graduate. This student is allowed to attend school only when he/she has these classes.

What are the Languages Other Than English (LOTE) requirements?

Advanced Regents Diploma: A student needs to take 3 units of the same LOTE and pass the local LOTE exam.

Regents & Local Diploma: 1 unit of LOTE.

Does a student need to take art or music to graduate?

Yes, the requirement may be met in any one of the following ways:

- **Studio Art**
- **Band**
- **Chorus**
- **Any other full music credit**
- **Design & Drawing for Production**

Who is eligible to go to a Vocational Education program?

Students at Hoosic Valley are afforded the opportunity to pursue studies at the area technical center. Most programs are two years. Beginning in the junior year, students spend half a day enrolled in academic classes at Hoosic Valley Junior-Senior High School and half a day at the QUESTAR III BOCES - Career & Tech Center studying a trade. Students must be on track for graduation to be eligible for the program.

What career courses are offered at the QUESTAR III BOCES - Career & Tech Center?

See QUESTAR III BOCES - Career & Tech (page 8).

How do students learn about the career programs at the QUESTAR III BOCES - Career & Tech Center?

Any 10th grade student who wants to visit the centers is given the opportunity to do so during a sophomore visitation day. The guidance counselors will work with the students to make sure that a vocational program will meet their graduation requirements and career expectations.

Does a student at the QUESTAR III BOCES - Career & Tech Center have any home school responsibilities?

Yes, students enrolled in a vocational education program must attend classes in the home school and be working toward completing their graduation requirements. Failure to attend and pass core academic classes at the home school will result in the student being placed on probation. If attendance and grades do not improve the student will be removed from the vocation program.

How do students sign up for course requests?

Scheduling material is explained and distributed by the guidance counselors early in the fall and spring semesters. Request sheets are taken home and signed by a parent or guardian and returned to the student's homeroom.

May a class be eliminated due to lack of enrollment?

Yes, if a particular course has a low enrollment, it may be taken off the master schedule, even if it is the only section of that course offered.

How do students make changes to their schedules?

Schedules are sent home the last week in August. Students may request changes using the course change request form from guidance, which requires both a parent and an instructor signature.

GRADING PROCEDURES

When are report cards issued?

Report cards are issued every six weeks or six times a year, (see school district calendar for specific dates).

What about doubling up on the course for next year?

Doubling of courses will not be allowed in most subject areas.

ACADEMIC HONORS

What are the school's standards to make the honor roll?

Honor Roll is calculated for all students.

Honor Roll: 85%-89.9%

High Honor Roll: 90%-100%

How are high achieving seniors recognized?

Hoosic Valley recognizes both a Valedictorian and a Salutatorian.

QUESTAR III CAREER AND TECHNICAL EDUCATION CENTER

If you are planning to enter a career and technical education program, you will need to successfully complete the following courses and regents exams in Global History, math, and science during your 9th and 10th grade year:

- 2 units of English
- 2 units of Social Studies
- 2 units of Math
- 2 units of Science
- 1 unit of LOTE
- 1 unit of Art/Music
- 1 unit of Physical Education (0.5 credits per year)
- 0.5 unit of Health (preferred)

In the last two years of high school, a student may opt to enhance his or her high school experience with a career and technical education program at Questar III. Some students may be able to complete various integrated courses at Questar III. These courses can be used to fulfill graduation requirements.

See your school counselor for a full list of integrated credits and how your choice of program meets with current graduation requirements. Below is a list of current Questar III programs.

- Academy for Information Technology (AIT)
- Automotive Technologies
- Aviation
- Aviation Maintenance Technology
- Construction Technologies
- Cosmetology
- Criminal Justice
- Culinary Arts
- Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R)
- Mechanical Technology
- Welding/Metal Fabrication
- Career Studies

These programs are available for students with disabilities:

- Automotive Services
- Building Trades
- Introduction to Employment
- Introduction to Food Services

For High School Seniors Only:

- Careers In Health Care
- Certified Nurse Assistant (CNA)
- Green Technology and Renewable Energy
- Theater Institute at Sage (TIS) (one semester program only)

NEW VISIONS

These programs are designed for college-bound seniors who are in the top 20% of their class. New Visions programs are offered to challenge and enlighten highly motivated seniors who have decided on their future career field.

Questar III programs

- Science, Technology, Engineering and Math (STEM), located at Rensselaer Polytechnic Institute
- Scientific Research and World Health, located at SUNY Albany's East Campus in East Greenbush
- Visual and Performing Arts, located at the Arts Center of the Capital Region in Troy

The Questar III Course Catalog can be viewed at www.questar.org (this includes the Questar New Visions programs). All students are encouraged to speak with parents, teachers, and school counselors if he or she is interested in supplementing his or her high school career with a career or technical program.

ENGLISH DEPARTMENT

100 English 7

Course Description:

Course features short story and poetry reading. Also modern novels such as Freak the Mighty by Rodman Philbrick is read, among others. Coursework also includes essay and creative writing as well as a research project and oral projects. ELA State Test tasks are the focus of the midterm and final exam. *Final Exam: School*

Class Meeting: 5 days/week/1 year

110 English 8

Course Description:

English Language Arts 8 covers a variety of topics that are encompassed within the Common Core Learning Standards for ELA. Units include a narrative writing Memoir Unit, an interdisciplinary unit in conjunction with Social Studies on the Holocaust Research Writing, S.E. Hinton's classic novel, The Outsiders, as well as crucial reading skills and strategies that will aid comprehension in all of the content areas. The common thread that weaves throughout the year is independent reading, which is individually chosen and geared at each student's own pace and comfort level. ELA 8 challenges each student to read more than in previous years, expanding and building a reading repertoire.

Class Meeting: 5 days/week/1 year

Final Exam: School

122 English 9R

Credits: 1

Course Description:

English 9 is a genre survey course. The class features short stories, poetry, science fiction, an introduction to Shakespeare via The Tragedy of Romeo and Juliet, and a novel unit based on the classic To Kill a Mockingbird by Harper Lee. Coursework also includes non-fiction article responses, journals, a brief MLA research report, study of literary terms and devices, compositions, vocabulary, grammar, spelling, quizzes and unit tests. Common Core based tasks are the focus of the mid-year and final examinations. *Final Exam: School*

Class Meeting: 5 days/week/1 year

128 English 9H

Credits: 1

Prerequisite: English 8 and Teacher Recommendation

Class Meeting: 5 days/week/1 year

Course Description:

English 9 Honors is a genre survey course. The class features short stories, poetry, science fiction, an introduction to Shakespeare via The Tragedy of Romeo and Juliet, a novel unit based on the classic To Kill a Mockingbird by Harper Lee, and a memoir study of Night by Eli Wiesel. Course work includes formal essays, creative writing, non-fiction article responses, journals, an MLA research report, study of literary terms and devices, compositions, vocabulary, grammar, spelling, quizzes, oral presentations, and unit tests. Common core based tasks are the focus of the mid-year and final examinations. **English 9 Honors students must maintain a minimum average of 85% for each of the 6**

marking periods, the mid term examination, and the final examination in order to remain in the Honors Program.

Final Exam: School

132 English 10R

Credits: 1

Prerequisite: English 9

Class Meeting: 5 days/week/1 year

Course Description:

This course, aligned with Common Core Standards, is a survey of genres and a study of the elements of traditional literature—short story, modern and Shakespearean drama, poetry, legend, novel. Students also study non-fiction—memoir, biography, essay, speech writing. An example is a thematic unit on Imperialism that incorporates the novella The Pearl by John Steinbeck with essays on Imperialism and memoirs of those who experienced it. Students will study persuasive techniques and learn to incorporate those techniques in their writing. Students will complete a unit on Greek Drama reading the play Antigone by Sophocles and a unit on Elizabethan Drama reading Macbeth. A school midterm and final exam modeled after the Common Core Regents exam is given. *Final Exam: School*

135 English 10H

Credits: 1

Prerequisite: Teacher recommendation

Class Meeting: 5 days/week/1 year

Course Description:

This course, aligned with Common Core Standards, is a survey of genres and a study of the elements of traditional literature—short story, modern and Shakespearean drama, poetry, epic, legend, novel. Students also study non-fiction—memoir, biography, essay, speech writing. Students will study persuasive techniques and learn to incorporate those techniques in their writing. The English 10 Honors curriculum includes British Literature, as well as American. Major works studied include Beowulf, Canterbury Tales, and Macbeth. A school midterm and final exam modeled after the Common Core Regents exam, is given. **English 10 Honors Students must maintain a minimum average of 85% for each of the 6 Marking Periods, the Mid-Term examination, and the Final examination in order to remain in the Honors Program.** *Final Exam: School*

142 English 11R

Credits: 1

Prerequisite: English 10

Class Meeting: 5 days/week/1 year

Course Description:

This is a mandatory ELA class based on NYS Common Core learning standards. Students will read fiction, nonfiction, essays, speeches, poetry, etc. Students will write to analyze, inform, describe, narrate, and persuade. There are two research projects during the second semester. A journal is kept for weekly creative writing. SAT vocabulary is covered as part of the course. *Final exam: Comprehensive Regents/Common Core (Graduation requirement for all students)*

145 English 11AP Language and Composition

Credits: 1

Prerequisite: English 10 and Teacher recommendation Class Meeting: 5 days/week/1 year

Course Description:

This class includes the same standards as the English 11 Common Core Regents course. In addition, this course is designed for students to appreciate the use of language and rhetorical strategies. There is an additional reading assignment per week compared to the English 11 course and mandatory discussion. There are also several writing assignments that are above and beyond the English 11 course. Student not only read and study rhetorical strategies, they are expected to write using rhetoric as well. *Final Exam: AP test and NYS Regents*

155 English 12AP

Credits: 1

Prerequisite: English 11

Class Meeting: 5 days/week/1 year

Course Description:

This course provides a college level experience in English and American literature and composition, as well as an opportunity to earn college credit via a qualifying score on the Advanced Placement test in literature and composition. *Final Exam: AP test*

152 English 12 Mythology and Mystery

Credits: 0.5

Prerequisite: English 11

Class Meeting: 5 days/week/1 semester

Course Description:

Mythology—This class is the study of primarily Greek and Roman mythology. Edith Hamilton’s Mythology serves as the primary text for the class. Additional text, resources, resources and films will serve to supplement the course. Mythology class will cover the creation myths, legends, the Twelve Olympians, the great heroes before and during the Trojan War, *The Iliad*, *The Odyssey*, and *Oedipus*. *Final Exam: Project*

Mystery—This class is the study of the mystery and detective genres. The class will focus primarily on the works of Edgar Allan Poe, Agatha Christie, and Sir Arthur Conan Doyle. Plays, short stories, and film will form the basis for the content of the course. *Final Exam: Project*

154 English 12 Film and Public Speaking

Credits: 0.5

Prerequisite: English 11

Class Meeting: 5 days/week/1 semester

Course Description:

Film-This course is an in-depth study of film terminology and technique. Students will identify, compare, and contrast film genres. The class will view both classic and contemporary feature length films and excerpts. *Final Exam: Film Review*

Public Speaking-This course is an introduction to the fundamentals of Public Speaking.

Students will learn and utilize proper Public Speaking terminology. The class will include impromptu,

extemporaneous, and manuscript style speeches. Students will prepare and present impromptu, informative, and persuasive speeches. *The class culminates in a 15-20 minute demonstration speech as a Final Exam.*

151 Research Writing and College Study Skills

Credits: 0.5

Course Description:

Class Meeting: 5 days/week/1 semester

This course is designed to prepare students for college-level reading and writing assignments. There are weekly readings, discussions and journal writing. There are 4-5 diverse research papers done throughout the semester. Students use MLA and APA documentation and complete their own primary research as well. There is a final project. *Final Exam: School*

153 Creative Writing

Credits: 0.5

Course Description:

Class Meeting: 5 days/week/1 semester

This course is designed for students to learn and improve on creative writing skills in a variety of genres. Students compile work throughout the semester and create a portfolio. Description, figurative language, dialogue, narration, and poetry are a few of the writing styles that are practiced in the course.

Final Exam: School

SUPA 0010 College Learning Strategies

Credits: 0.5 (3 college credits)

Course Description:

Class Meetings: 5 days/week/1 semester

This course is taught by Hoosic Valley faculty, but students can receive 3 college credits from Syracuse University. The tuition is paid by the students registered for the course. This course is the study and application of strategic approaches to learning. Strategies are presented and practiced in order for you to maximize your learning in the context of lectures, readings, recitations, and independent learning situations. The course content is based on the application of strategies to the learning requirements of the courses you are enrolled in concurrently throughout the school. Class sessions are a series of lectures, discussions, and one-on-one conferences. You are required to participate in classes in conferences and apply the strategies in your other classes.

Instructor

Final Exam: By

604 Communications

Credit: 1

Course Description:

Class Meetings: 5 days/week/1 year

This course is offered to students in grade 12. This is a comprehensive course studying the importance of effective communication skills using the five modes of communication – reading, writing, speaking, listening, and nonverbal. This course fulfills the 12th grade English requirement. Microsoft Word is used for many assignments relating to social, business, and educational situations. The use of technology is also introduced and incorporated into the communication process. *Final*

SOCIAL STUDIES DEPARTMENT

200 Social Studies Grade 7

Course Description:

Class Meeting: 5 days/week/1 year

Students will examine the United States and New York State from the beginning with the settlement of North America by Native Americans through the causes of the Civil War. The course will focus on emphasizing the skills of chronological reasoning and causation, and will integrate skills and content from geography, politics, and culture into the study of history. *Final Exam: School*

210 Social Studies Grade 8

Course Description:

Class Meeting: 5 days/week/1 year

Students will examine the United States and New York State from the Causes of the Civil War to America in the 21st century. The course will focus on emphasizing the skills of chronological reasoning and causation, and will integrate skills and content from geography, politics, economy, and culture into the study of history. *Final Exam: School*

Global History and Geography is a two-year social studies sequence, given in the 9th and 10th grade, which incorporates a thematic and chronological approach to the study of past and present civilizations.

World History Themes

Power and Authority
Religious & Ethical Systems
Revolution
Economics
Interaction with Environment
Cultural Interaction
Science & Technology Justice
Nationalism

Geography Themes

Location
Human/Environmental Interaction
Region
Place
Movement

222 Global History 9R

Credit: 1

Prerequisite: None

Class Meeting: 5 days/week/1 year

Course Description:

This course presents an introduction to the major themes in the study of Global History and Geography, indicated above. The course pursues a topical and chronological approach to world history beginning with the Origins of Societies and Civilizations (4,000 B.C.-A.D. 500) and continuing

through to the First Global Age (1450-1770). *Final Exam: School*

221 Global History & Geography 9H

Credit: 1

Prerequisite: Teacher Recommendation and a 90% average Class Meeting: 5 days/week/1 year

Course Description:

Incorporates the same themes and approaches at a deeper level of study. *Final Exam: School*

232 Global History 10R

Credit: 1

Prerequisite: Global 9

Class Meeting: 5 days/week/1 year

Course Description:

This course maintains continues with the topical and chronological approach that the 9th grade social studies program employs. The course continues the exploration of the major themes in history beginning with The World in 1750 and includes an extensive study of the Age of Revolutions (1750-1914). The course ends with a look into the development of nations in the 21st Century.

Final Exam: Regents (Graduation Requirement) The exam, a requirement for all students, tests content knowledge and student's ability to apply that content through responses to objective multiple-choice questions, a thematic essay, and a document-based question.

231 Global History 10H

Credit: 1

Prerequisite: Global 9H

Class Meeting: 5 days/week/1 year

Course Description:

The purpose of this course is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. *Final exam: AP exam & Regents*

SUPA0220 History I - 11th Grade

SUPA0221 History II - 11th Grade

Credit: 1 (Syracuse Credit: 6)

Prerequisite: Permission of Instructor/Teacher Recommendation)

Course Description:

Class Meeting: 5 days/week/1year

This course is taught by Hoosic Valley faculty, but students can receive 6 credits through Syracuse University. The American History sequence is a full-year course comprised of History 101: American History to 1865, and History 102: The United States Since 1865

242 US History & Government 11R

Credit: 1

Prerequisite: Achievement in Global 9 & 10

Class Meeting: 5 days/week/1 year

Course Description:

This course will emphasize basic constitutional issues and the application of those principles to both historical and contemporary life. The course covers U.S. History from Colonial America to the present.

Final Exam: Regents (Graduation Requirement)

251 Economics

Credit: .5

Prerequisite: Achievement in US History

Class Meeting: 5 days/week/1 semester

Course Description:

This course will provide economic concepts, facts, descriptive materials and theories through which students can make thoughtful analysis of economic issues and problems. *Final Exam*

SUPA0203 Introductions to Macroeconomics

Credit: ½ (Syracuse Credit 3)

Course Description:

Class Meeting: 5 days/week/1 year

This course is taught by Hoosic Valley faculty, but students can receive 3 college credits from Syracuse University. The tuition is paid by the students registered for the course. Economic Ideas and Issues is an introduction to mainstream economic thought. The goals of this course are to introduce students to the ideas that form the foundation of modern Western (neoclassical) economic thought, to examine the basic framework (the model) that economists have built on this foundation, and to show how this model is applied to current issues facing individuals and society. The course begins with a presentation of the scientific method, which is then used to analyze the question: How do individuals and societies make choices when they are faced with scarcity? Beginning with the individual in the simplest of situations, a one-person society, the course moves step by step to develop a model of a complex society based on division of labor and exchange through markets. The process takes students from the microeconomic to the macroeconomic level, emphasizing the connection between these two perspectives. Students examine the benefits, as well as the problems, inherent in a market-oriented economy. The course prepares students to analyze and understand the ongoing economic policy debate between interventionists and non-interventionists. *Final Exam: by instructor*

253 Government

Credit: 0.5

Prerequisite: Achievement in U. S. History

Class Meeting: 5 days/week/1 semester

Course Description:

The purpose of this course is to assist and encourage the development of potential civic-minded individuals who will be capable of effectively performing their "civic duty": a fundamental precept of democracy and a right guaranteed by the 14th amendment of the Constitution. *Final Exam: School*

273 Government – Honors

Credit: 0.5

Prerequisite: Permission of the Instructor

Class Meeting: 5 days/week/1 semester

Course Description:

This is a college level, introductory course that gives students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the institutions, groups, beliefs, and ideas that constitute U.S. politics. Major topics include: Constitutional Underpinnings of the US Govt.; Political Beliefs and Behaviors; Political parties, Interest Groups and Mass Media; Institutions of National Government; Public Policy; Civil Rights and Civil Liberties.

Final Exam: School

MATHEMATICS DEPARTMENT

300 Math 7

Course Description:

Class Meeting: 5 days/week/1 year

Math 7 builds on the foundations from 6th grade. The heart of the course deals with fractions, ratios and proportions. Students work on skills without a calculator like operations with integers and fractions (rational numbers). Ratios and Proportions are often applied to real life money problems and scaling. An algebraic process (solving for x) is used for many word problems, equations and inequalities. Some probability and statistics is also reviewed. *Final Exam: School*

301 Math 7/8 Accelerated

Course Description:

Class Meeting: 5 days/week/1 year

This class studies the same topics as math 7 with the addition of some 8th grade topics, such as graphing linear equations, slope, writing linear equations, solving multistep equations algebraically, exponent rules, and some additional geometry topics. Students must be organized. They must be able to keep track of their papers and access them quickly. A lack of organization results in missing work, late work, or time spent on other things when one needs to be listening or learning etc. Students must be resourceful. Students must be able to understand and try new material given notes or a video etc. Students must know how to find an answer on their own. An accelerated student should be more independent than an average student. Students must already have mastered the 6th grade material. They are expected to know everything from 6th grade and class time will be spent on learning 7th or 8th grade material.

Students also need to be attentive and well behaved so that the fast pace of the class may be maintained. The class has a faster pace due to the fact that 2 years of math will be taught in one. Focus must be maintained in order to keep up. *Final Exam: School*

311 Math 8

Course Description:

Class Meeting: 5 days/week/1 year

Eighth grade math is comprised of five main clusters: Number systems, Equations and Exponents, Functions, Geometry, and Probability and Statistics. In number systems, students learn about the properties of rational numbers as they relate to the real numbers. Students learn to evaluate square roots and learn the importance of perfect squares and perfect cubes. While working with equations and exponents, students learn to develop the laws of exponents and they learn to evaluate algebraic expressions using the laws of exponents. Students also become adept at solving linear equations to real world problems and applications. While studying functions students learn to develop the understanding that a function is a mathematical relationship that assigns one and only one unique output for each input. Students compare the properties of functions graphically, algebraically, and using a table of values. Students also learn to incorporate the properties of linear functions when working with rate of change. Geometry and transformation geometry: Students learn the properties related to parallel lines and angles and study the concepts and rules associated with reflection,

rotation, translation, and dilation on the coordinating plane. Students also learn the properties associated with the exterior angle of a triangle and incorporate algebra to find the unknown angle. In addition, students learn to calculate the volume of three dimensional objects such as cones, cylinders, and spheres. In probability and statistics students learn to construct and interpret scatter plots for bi-variable data and to investigate patterns of association between two quantities. Students also learn to develop patterns associated with line of best fit as well as positive and negative correlation. *Final Exam: School*

3200 Pre-Algebra

Credit: 1

Prerequisite: Teacher Recommendation

Class Meeting: 5 days/week/1 year

Course Description:

This course is year 1 of a 2 year prep for the Common Core Regents exam, with a focus on basic skills. See Algebra course description for a list of topics. *Final Exam: School*

329 Algebra I R

Credit: 1

Prerequisite: Teacher Recommendation

Class Meeting: 5 days/week/1 year

Course Description:

This is a course in which students learn to solve problems resulting in all types of linear, quadratic, absolute value and exponential functions. Other topics include measurement within a problem-solving context, data analysis including measures of central tendency, correlations and causation, arithmetic and geometric sequences. *Final Exam: Common Core Algebra Regents exam in June*

3050 Math 7 Extended

3060 Math 8 Extended

324 Algebra Extended

Credit: No Credit

3410 Algebra 2 Extended

Class Meeting: every other day

Course Description:

Math enhancement/extended classes are offered at each level to provide additional instructional support to students. The courses are credit bearing, requiring graded assignments in addition to regular classwork. Students have the opportunity for pre-teaching, re-teaching, and homework assistance within the school day.

332 Geometry-Local

Credit: 1

Prerequisite: Algebra

Class Meeting: 5 days/week/1 year

Course Description:

In this course, students will study similar topics as the Regents Geometry students but at a comfortable pace. Topics include Logic, Proof, Congruence, Transformations, Properties of Parallel and Perpendicular Lines, Coordinate Geometry, Properties of Parallelograms, Ratio & Similarity, Circles and Constructions. It satisfies one year of the three year NYS Math requirement for those seeking a Regents Diploma. It is NOT for students pursuing an Advanced Regents Diploma.

*Final Exam: School***333 Geometry-Regents**

Credit: 1

Prerequisite: Algebra

Class Meeting: 5 days/week/1 year

Course Description:

This course is for students pursuing an Advanced Regents Diploma. In this course students will prove in both formal and informal ways that a conclusion follows logically from its hypothesis. Student will justify geometric relationships and properties of geometric figures, and establish congruence and similarity of polygons using appropriate theorems. Other topics include trigonometry, constructions, transformations, coordinate geometry, and properties of triangles, quadrilaterals, and circles.

*Final Exam: NYS Geometry Regents***338 Algebra 2-R**

Credit: 1

Prerequisite: Geometry-R

Class Meetings: 5 days/week/1 year

Course Description:

This course is for student pursuing an Advanced Regents Diploma. Topics of study include families of functions, complex numbers, arithmetic and geometric sequences and series, statistics, probability theory, circular functions, trigonometric equations and identities. Algebraic and graphic techniques will be used in problem solving applications. *Final Exam: NYS Alg. 2 Common Core Exam*

341 Algebra 2-Local

Credit: 1

Prerequisite: Geometry L or Geometry R

Class Meetings: 5 days/week/1 year

Course Description:

This covers the same content as Algebra 2 Regents (see Algebra 2 Regents for a list of topics) but is assessed with a local final exam. It satisfies one year of the Three year NYS Math requirement for those seeking a Regents Diploma. It is NOT for students pursuing an Advanced Regents Diploma. This is a great college prep course. *Final Exam: School*

350 Math 4H Precalculus (HVCC)

Prerequisite: Algebra 2 Regents

Credit: 1 (4 college credits)

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students receive can 4 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This course is a one credit local level advanced math course, with the option of enrolling Hudson Valley Community College's College in the High School Program and earning 4 college credits (HVCC MA10, registration and tuition payment required). Topics covered include multivariable systems of equations, matrices, sequences and series, limits polynomial functions, exponential and logarithmic functions and trigonometry. *Final Exam: School*

366 Calculus I (HVCC)/367 Calculus II (HVCC)

Prerequisite: Precalculus

Credit: 1 (4 college credits each)

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students can receive 8 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This is a calculus course offered to the advanced math students who have completed the precalculus course. The topics covered are functions, derivatives and integrals with an emphasis on their uses and applications. This course is a one credit local level advance course, with the option of enrolling in Hudson Valley Community College's College in the High School Program and earning 8 college credits, 4 per semester. (HVCC MA180 & MA190, registration and tuition payment is required). *Final Exam: School*

372 Computer Science—JAVA How to Program

Prerequisite: Completed Algebra Regents

Credit: 1

Class Meeting: 5 days/week/1 year

Course Description:

This course is designed to attain four major goals: 1) to enable the students to become "computer literate", 2) to enrich the student's mathematical background by using the computer as a tool in mathematical applications, 3) to introduce the student to a structured approach in programming using the Java Language; 4) and to introduce the student to software that can be used as a tool to improve or enhance other areas of learning. *Final Exam: School*

605 Business MathCourse Description:

Credit: 1

Class Meetings: 5 days/week/1 year

This course includes algebra-based calculations and analysis of business investment situations, including simple and compound interest, annuities, applications of present value, future value, and a conceptual discussion of business investment. This course fulfills the third year math requirement. This type of math is presented in familiar contexts such as everyday business transactions, math

needed to make important personal financial decisions and math needed to possibly start and run your own small business. *Final Exam: School*

362 Statistics

Credit: 1

Prerequisite: Algebra 2

Class Meetings: 5 days/week/1 year

Course Description:

This course covers Elementary Statistics including such topics as standard deviation, linear regression, and how to interpret data. Students are required to have a graphing calculator. The recommended model is the *TI-84+C Silver Edition*. *Final Exam: School*

SCIENCE DEPARTMENT

400 Science Grade 7

Prerequisite: Complete grade 6

Class Meeting: 5 days/week/1 year

Course Description:

This course is for all 7th graders. It covers the basic concepts of biology. These include genetics, intro to biochemistry, cell form and structure, cell processes, evolution, ecology, classification, microbiology, botany, and the study of the human body. Introduction to System International (metric system) will be practiced throughout the year. Skills for lab technique and working with a microscope are practiced. *Final Exam: School*

407 7/8 Accelerated Science

Prerequisite: Completion of Grade 6 and teacher recommendation.

Course Description:

Class Meeting: 5 days/week/1 year

This course is designed to challenge students and to cover the material from 7th grade life science and to prepare students for Earth Science. Additional concepts covered are matter and energy, atomic structures, chemical bonds (ionic covalent), periodic law and the introduction to Stoichiometry. Writing complete lab reports will be stressed, along with scientific research. *Final Exam: School*

401 Science 8

Class Meeting: 5 days/week/1 year

Course Description:

This is a physical science based course. The students will learn about the properties of matter and energy. Emphasis is on preparing them for the Regents requirements they will face in the high school science courses. The course begins with a safety unit, since labs and activities are an integral part of the program. Other topics to be taught include metric measurements, the laws of motion, properties of matter, structure of the atom, and energy. Concepts that were taught in grades 5-7 will be reviewed in the second semester in order to prepare students for the NYS Intermediate Level Science assessment.

Final Exam: School

421 Earth Science, the Physical Setting-R

Credit: 1

422 Physical Setting Lab-R

Class meeting: 5 days/week/1 year

Course Description:

Lab: every other day

Regents Earth Science is a course based on the New York State Regents Physical Setting: Earth Core Curriculum, utilizing the process of scientific investigation through the study of the physical world. The course focuses on all aspects of the planet earth. That includes several different topics studied in geography, geology, meteorology, oceanography and astronomy. The course will be dependent upon laboratory experiences and culminate in a two-part State examination (lab performance and written sections). *Final Exam: Regents*

431 Living Environment-R

Credit: 1

432 Living Environment Lab-R

Class meeting: 5 days/week/1 year

Lab: every other day

Course Description:

This is a course in the basic concepts of biology emphasizing the major topics of genetics, physiology, biochemistry, cell biology, classification, reproduction, evolution, and ecology. These themes point to the unity, diversity, and continuity of how life maintains homeostasis in its environment. Lab work is emphasized. *Final Exam: Regents*

441 Chemistry-R (Physical Setting)

Credit: 1

442 Chemistry Lab-R

Class meeting: 5 days/week/1 year

Co-Requisite: Algebra 2

Lab: every other day

Prerequisite: Geometry; Satisfactory completion of 2 years of science.

Course Description:

This is a college preparatory course in chemistry, covering matter and energy, atomic structure, chemical bonding, Periodic Law, Stoichiometry, chemical kinetics and equilibrium, acids and bases, electrochemistry, oxidation-reduction, organic chemistry, nuclear chemistry, and the application of chemical principles. *Final Exam: Regents*

445 General Chemistry

Credit: 1

Prerequisite: Completion of 2 science credits and
Completion of one regent's exam.

Class meeting: 5 days/week/1 year

(Last day to transfer in—1st Friday after start of second semester: at the discretion of the principal)

Course Description:

The course is designed to introduce students to the various concepts of chemistry. This course is designed to fulfill the third year science requirement for students not taking the Chemistry Regents course. The concepts covered include: matter and energy, atomic structure, chemical bonding, periodic law, stoichiometry, chemical kinetics and equilibrium, acid and bases, and the gas laws. Labs will be used to reinforce the concepts from class. Please note that there is not a separate lab period. *Final Exam: School*

451 Physics-R

Credit: 1

452 Physics Lab-R

Class meeting: 5 days/week/1 year

Prerequisite: Geometry and Regents Chemistry

Lab: every other day

Course Description:

This is a challenging course designed to present modern concepts in physics, with emphasis on the fundamental laws and principles underlying this basic science. This course covers units such as the laws of motion, nuclear energy, electricity, magnetism, optics, and wave motion. *Final Exam: Regents*

454 Science Research (U Albany) Credits: 1/optionally, up to 12 college credits through SUNY Albany

Prerequisite: 1 year high school science and permission of instructor.

Class meeting: 240 hours/year class & independent time

Course Description:

This course is taught by Hoosic Valley faculty, but students can receive up to 12 college credits from SUNY Albany throughout the course of the program. The tuition is paid by the students registered for the course. This course offers the students the opportunity to participate in the field of scientific research. Students develop skills involving on-line bibliographic searches, reading and writing scientific articles and making presentations. Topics may be chosen from any field and allows an in-depth exploration in an area of interest to the student. All research is self-directed and should be authentic, original, scientific work. After choosing a topic, students develop a problem, hypothesis, and procedure with a mentor. Data is then collected and analyzed. Conclusions are drawn from the results and presented at one of several venues (our own symposium, Intel Science Talent Search, Junior Science & Humanities Symposium, and /or others). The entire process takes three years to complete and requires time management skills and commitment on the part of the student. *Final Exam: Complete final paper and participate in Symposium at end of year.*

455 Anatomy & Physiology

Credit: 1

Prerequisite: Regents Living Environment and Chemistry

Class meeting: 5 days/week/1 year

Course Description:

This course emphasizes the essential physiological principles underlying the function of the human body. The following systems and/or units will be covered: cells and tissue, muscular, nervous, endocrine, cardiovascular, blood, respiratory, digestive, and urinary systems; fluid balance and reproduction. College credit may be available through Herkimer County Community College (pending college approval). *Final Exam: School*

468 Environmental Science

Credit: .5

Course Description:

Class Meeting: 5 days/week/ ½ year

This course is designed as introductory level Environmental Science. This course is offered as a ½ year course to fulfill a portion of the 3rd year science sequence credit. The emphasis is on local and global environmental issues such as resource depletion, air, land and water pollution and climate change. This course is designed to fulfill the third year science requirement for students not taking the Chemistry Regents course.

** It is highly recommended that prospective students have passed both the Physical Setting/Earth Science and Living Environment Regents examinations. *Final Exam: School*

SUPA0410 General Biology I and SUPA0411 General Biology II

SUPA 042 General Biology I and II Credit: .5 each semester/Syracuse U. credits-8 (4 each semester)

Course Description:

Class Meeting: 5 days/week/1 year

This course is taught by Hoosic Valley faculty, but students can receive 8 college credits from Syracuse University. The tuition is paid by the students registered for the course. This is an eight credit college course offered through Syracuse University over two semesters (fall and spring). This course teaches modern biological concepts, including classification of organisms, ecology, human influences on natural ecosystems, microscopy, cells, organic and inorganic chemistry, animal development, genetics, energy, and plant structure and function. During a session, the student may be asked to carry out an experiment, view a demonstration, interpret experimental results, and make a drawing to document observations, and so on. Students paying the (discounted) fee for the SU credit will receive a Syracuse University transcript. *Final Exam: Instructor*

480 Marine Biology

Credit: .5

Course Description:

Class Meeting: 5 days/week/ ½ year

This course is offered as a ½ year course to fulfill a portion of the 3rd year science sequence credit.

Eligible students: Juniors or Seniors who have successfully completed BOTH Earth Science and Living Environment. In this course, students investigate the scientific world of ocean organisms and physical characteristics of the ocean and its processes. Students will use technology (including satellite Earth imagery), classroom activities, case studies, etc. to access, interpret and apply the process of scientific inquiry. Course focus will be on ocean biodiversity, food webs, population changes, human impact and marine organism relationships. *Final Exam: Instructor*

FOREIGN LANGUAGE DEPARTMENT

500 Spanish 7 501 Spanish 8

505 French 7 506 French 8

Prerequisite: None

Credit: 1 after 2 years

Class Meeting: 5 days/week/1 year

Course Description:

This course will take place in the Middle School during grades 7 & 8 and equal Level One of the Language. Students are introduced to basic vocabulary, the present and past tenses, and the geography and culture of the Francophone and Hispanic worlds. Material is taught through cooperative learning, games, and projects. *Final Exam: School*

513 French 2

523 Spanish 2

Prerequisite: French/Spanish 1

Credit: 1

Class Meeting: 5 days/week/1 year

Course Description:

This course introduces the students to numerous tenses and detailed topical vocabulary. Students begin to compose original sentences and paragraphs as well as conduct conversations. The course is enhanced with cultural projects and films. *Final Exam: School*

514 French 3

524 Spanish 3

Prerequisite: French/Spanish 2

Credit: 1

Class Meeting: 5 days/week/1 year

Course Description:

This course is a continuation of grammar and vocabulary. In addition, it emphasizes the four skills necessary for proficient communication in the language, reading, and writing, speaking and listening. Cultural projects and videos enhance the course. *Final Exam: School*

515 French 4

Prerequisite: French 3

Credit: ½ + 3 college credits (HVCC)

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students receive 3 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This is an introductory college-level course which covers all tenses and creates a broad vocabulary knowledge, both of which are applicable to personal and professional expression in the target language. Francophone culture, film, literature, and drama are explored. Students have the opportunity to receive college credit in cooperation with HVCC and the College in the High School program. If students opt to receive credit they pay discounted college tuition for the course and receive credit upon successful completion. *Final Exam: School*

516 French 5

Credit: ½ + 3 college credits (HVCC)

Prerequisite: French 4

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students receive 3 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This is a continuation of work with the skills as in 515 with emphasis on reading, short compositions, research, and class discussions in the target language. Culture topics include France and Francophone countries with emphasis on art, artists, literary figures, and research on French figures of the student's choice.

*Final Exam: School***526 Spanish 4**

Credit: ½ + 3 college credits (HVCC)

Prerequisite: Spanish 3

Class Meeting: 5 days/week/1 year

Course Description:

This is an introductory college-level course which covers all tenses and creates a broad vocabulary knowledge, both of which are applicable to personal and professional expression in the target language. Hispanic culture, film, literature, and drama are explored. Students have the opportunity to receive 3 college credits in cooperation with HVCC and the College in the High School program. If students opt to receive credit they pay discounted college tuition for the course and receive credit upon successful completion. *Final Exam: School*

527 Spanish 5

Credit: ½ + 3 college credits (HVCC)

Prerequisite: Spanish 4

Class Meetings: 5 days/week/1 year

Course Description:

This is a continuation of work with the skills as in 525 with an in-depth study of Hispanic literature and culture. Students do research papers and make oral presentations as well as continue to improve foreign language skills. Students have the opportunity to receive 3 college credits in cooperation with HVCC and the College in the High School program. If students opt to receive credit they pay discounted college tuition for the course and receive credit upon successful completion. *Final Exam: School*

BUSINESS EDUCATION DEPARTMENT

601 Accounting

Credit: 1

Course Description:

Class Meetings: 5 days/week/1 year

This is an introductory accounting course where you will learn the principles of accounting. The course is offered to students in grades 9-12. We begin the first semester by exploring the areas of accounting for a service business organized as a proprietorship; this prepares you for the second semester where we study the aspects of accounting from the perspective of a business organized as a corporation. You will gain an understanding of accounting transactions, general journals and ledgers, cash systems, payroll, preparing financial statements, and adjusting for closing entries. *Final Exam: School*

602 Financial Independence

Credit: .5

Course Description:

Class Meetings: 5 days/week/1 semester

The objective of this course is to provide students a solid foundation of financial decision making; including making money, budgeting, savings, living on their own, banking services, managing credit, checking accounts, and much more. *Final Exam: School*

670 Personal Computer Applications

Credit: ½ + 3 college credits (HVCC)

Prerequisite: Keyboarding/Word Processing

Class Meetings: 5 days/week/1 semester

Course Description:

This course provides both a practical and conceptual background in microcomputer fundamentals. Students receive hands-on experience while learning the latest in graphical interface technology and how it interacts with Advanced Word Processing, Spread Sheeting, Presentation Graphics, Database Management, and Accessing the internet. Microsoft Office and Google Applications will be used. Lab time outside the class is required. *Final Exam: School*

802 Careers + (Grades 7 and 8)

Class Meeting: A/B Full year

This course is designed so students can develop an understanding of themselves while developing work skills. Also this course encourages students to begin learning about themselves, to weigh career options against their own interest, values, needs, wants, and preferences, while learning the QWERTY keyboard. *Final Exam: School*

TECHNOLOGY DEPARTMENT

705 Production Systems

Credit: .5

Prerequisite: Successful completion of DDP

Class Meeting: 5 days/week/1 semester

Course Description:

This course is offered to students in grades 10 through 12. Hands-on activities in the development, production and evaluation of manufactured goods will emphasize a team approach to manufacturing. In this course, the inputs, resources, processes, outputs, and content of product productions are studied. Through job activities, using related tools and materials, the students simulate the operation of the systems of in-plant production to produce tangible take home products. *Final Exam: School*

707 Energy and Power

Credit: .5

Prerequisite: None

Class meeting: 5 days/week/1 semester

Course Description:

Available Every Other Year

This course is offered to students in grades 9 through 12. It introduces students to the common forms of energy, their uses, conservation, social impacts, and related occupations. Laboratory activities include the constructing and testing of models, as well as experimentation with devices that are related to the use, efficiency and measurement of energy. This course provides hands-on experience with the common energy systems, where students build various energy related projects that are of interest to them, then test and problem solve with “What if” experiments. *Final Exam: School*

708 Basic Electricity/Electronics

Credit: .5

Prerequisites: None

Class Meeting: 5 days/week/1 semester

Course Description:

Available Every Other Year

This course is offered to students in grades 9 through 12. In this course students will become familiar with the comprehension electrical technologies as represented by the home environment. The student will study the common electrical systems and devices found in the home. Laboratory activities include experiments in electric theory and project construction. Electricity in the home; line and low voltage electronic systems; passive and active devices; circuit applications; integrated circuits and digital electronics make up the course topics. Student’s lab time is also spent assembling take home kits and building various electronic devices. *Final Exam: School*

712 Design/Drawing/ Production

Credit: 1

Prerequisite: None

Class Meeting 5 days/week/1 year

Course Description:

This course is offered to students in grades 9 through 12. Design and Drawing for Production (DDP) is a course which emphasizes creative problem solving, designing, and technical drawing. The course reflects the approach used in business and industry to develop new products. Students develop new solutions to various product design problems and proposed solutions are researched, refined, and rendered as technical drawings. Basic elements of design, and the six basic areas of technical drawing are covered in this course. *Final Exam: School*

716 Residential Structures

Credit: .5

Prerequisite: Successful completion of DDP

Class meeting: 5 days/week/1 semester

Course Description:

This course is offered to students in grades 10 through 12. This course studies the many systems and skills involved in constructing non-high rise residential buildings. Residential Structures does involve some technical drawing and reading of floor plans and should be taken only after successful completion of DDP. Course content includes resources, such as materials, supplies, and finances; processes such as planning, framing, roofing, and insulating; and outputs such as quality assurance, environmental impact, and economic consequences. Student will also be involved in scale model building as well as construction of a full scale residential structure. *Final Exam: School*

706 Transportation Systems

Credit: .5

Prerequisite: None

Class meeting: 5 days/week/1 semester

Course Description:*Available Every Other Year*

This course is offered to students in grades 9 through 12. The study of aerospace and marine transportation. The development of transportation systems has had a tremendous impact on the growth of various societies. Transportation systems allow man to not only move himself, but durable and non-durable goods in a very fast efficient manner. The course explores the transportation industry with three sub-modules; land, marine, and aerospace transportation. Lab work consists of systems experiments, trouble-shooting, problem solving, and prototype model construction. Research will be conducted to constructing working models. *Final Exam: School*

HVCHS700 Computer Aided Drafting 1

Credit: 1 (4 college credits through HVCC)

Prerequisite: DDP

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students can receive 4 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This course is offered to students in grades 10 through 12 who have previously completed the DDP course. Utilizing current Computer Aided Drafting (CAD) software, students will apply standard drafting theory to a diverse set of two-dimensional computer aided drafting applications. Topics included in this comprehensive, introductory level course are: primarily CAD software techniques, basic computer skills, creation and editing of geometry, plotting, single and multiple view drawings, coordinate systems, dimensioning, and basic block use. This course is offered through the College in the High School program.

*Final Exam: By Instructor***HVCHS705 Advanced Topics in CAD**

Credit: 1 (4 college credits through HVCC)

Prerequisite: Computer Aided Drafting I

Class Meeting: 5 days/week/1 year

Course Description:

This course is taught by Hoosic Valley faculty, but students can receive 4 college credits from Hudson Valley Community College. The tuition is paid by the students registered for the course. This course is offered to students in grades 10 through 12 who have previously completed the CAD 1 course. This course is offered through the College in the High School program.

Final Exam: By Instructor

ART DEPARTMENT

851 Art 8

Course Description:

Class Meeting: 5 days/week/1 semester

Eighth grade Art is a continuation of sixth grade Art that studies the elements of Art, including form, line, shape, color, texture, space, and value. Also studied are the principles of design including emphasis balance, harmony, variety, movement, rhythm, proportion and unity. Students learn to use a variety of hands on materials and techniques that enable students to visually create forms of communication.

Students also learn to develop decision making, critical thinking, and problem solving skills.

Final Exam: School

852 Studio In Art

Credit: 1

Prerequisite: Art 8

Class Meeting: 5 days/week/1 year

Course Description:

This course offers a comprehensive foundation for all secondary art. It introduces the beginning student to basic visual concepts and emphasizes the development of drawing and color design skills.

The basic elements of art are introduced in a variety of projects. *Final Exam: School*

853 Drawing & Painting I

Credit: 1

Prerequisite: Studio Art

Class Meeting: 5 days/week/1 year

Course Description:

This course is designed to help students create works that display personal expressions while exploring concepts of composition, content, visual and technical skills. The Elements of Art and the Principles of Design will be incorporated into projects. Artists and their artwork will be viewed.

Sketchbooks will be kept throughout the year to further enhance drawings skills. *Final Exam: School*

854 Drawing & Painting II

Credit: 1

Prerequisite: Studio Art and Draw & Paint. I

Class Meeting: 5 days/week/1 year

Course Description:

This course continues to build on the knowledge and skills acquired in Drawing and Painting I. The students are encouraged to expand their drawing skills into areas of abstraction and expressive drawing. The development of highly personal introspective image making is emphasized along with the exploration and use of a wide range of media in experimental ways. Artists and their artwork will be viewed. Sketchbooks will be kept throughout the year to further enhance drawing skills. *Final*

Exam: School

811 Foundations of Art: Graphic Design

Credit: .5

Prerequisites: None

Class Meeting: 5 days/week/semester

Course Description:

Foundations of Art: Graphic Design is for students in grades 10-12. Students will study the elements of Art; including form, line, shape, color, texture, space, and value. Also studied are the principles of design including emphasis balance, harmony, variety, movement, rhythm, proportion and unity. Students learn to use a variety of hands on materials and techniques that enable students to visually create forms of communication. Animation including the history of animation as a source for both information and entertainment of society. Other forms of graphic design such as magazine/book cover design, including the process of combining word and text, as well as society's influence on graphic design will also be studied in the course. *Final Exam: School.*

812 Foundations of Art: Filmography

Credit: .5

Prerequisites: None

Class Meeting: 5 days/week/semester

Course Description

Foundations of Art: Filmography is a study of both photography and film production. The history of photography from its use for recording events and people to the enjoyment of capturing sights will be integral to the studies with an emphasis on the digital age. The production/history of films from the early silent film to digital based film eras will also be studied including choices made to create meaning and engage audiences. Students will be introduced to the basic "building blocks" and formal elements (narrative, cinematography, sound and editing). The class will include the hands on production of short films and videos as well as digital photography. *Final Exam: School*

855A Mixed Media I

Credit: .5

855B Mixed Media II

Credit: .5

Prerequisite: 852/853/854

Class Meeting: 5 days/week/semester

Course Description:

These courses are for the advanced art students who want the challenge of investigating new and unique ways of making art, and focusing on the creative process rather than on a planned and calculated end product and encourages the unpredictable. Exploration and experimentation in painting, drawing, sculpture, and printmaking are emphasized. Projects will involve combining various media as well as devising innovative ways of interpreting environmental stimuli and unconventional use of materials and space. Artists and their artwork will be viewed. Sketchbooks will be kept throughout the year to further enhance drawing skills. Mixed Media I and II are independent of each other. *Final Exam: School*

858 Advanced Art

Credit: 1

Prerequisite: Studio in Art + 2 other art courses

Class Meeting: 5 days/week/1 year

Course Description:

This course is directed at the student in grades 11 and 12 who wishes to learn to draw realistically. It provides the student with fundamental rendering skills. The course presupposes that seeing/drawing ability is not solely a function of "talent" but a teachable learnable skill. Students will focus on drawing and painting from observation. Throughout the school year other creative avenues will be explored. Artists and their artwork will be viewed. Sketchbooks will be kept throughout the year to further enhance drawing skills. *Final Exam: School*

863 Portfolio (H)

Credit: 1

Prerequisite: Studio in Art, D &P. I, D & P II, Permission of teacher

Class Meeting: 5 times/week/1 year

Course Description:

This course is intended for students in grades 11 and 12. This course is directed at serious art students who wish to expand their knowledge and skills. Individual problem solving, in-depth personal critique and college portfolio preparation will be stressed. Students will focus on drawing skills and really learn how to observe. Trips will be taken to art museums to help students formulate strong personal ideas about their art. Students who are striving above and beyond midway through the course will be encouraged to submit a portfolio to the New York State Summer School of the Arts by recommendation of the teacher. Artists and their work will be viewed. Sketchbooks will be kept throughout the year to further enhance drawing skills. *Final Exam: School*

880 Independent Art

Credit: 1

Prerequisite: Four art courses and permission of the teacher

Class meeting: 5 times/week/1 year

Course Description:

This course is offered to seniors who have completed a full art sequence. The student and teacher will work out a contract which will include material to be covered and projects to be completed. Students in this course will continue to prepare their portfolio for college entrance. All work will be photographed by the student for college. Students will be expected to formulate their own ideas and really develop their own personal style. Artists and their work will be viewed. Sketchbooks will be kept throughout the year to further enhance drawing skills. *Final Exam: School*

MUSIC DEPARTMENT

960 Junior Chorus

Prerequisites: None

Class Meeting: Every other day/1 year

Course Description:

Students in grades 7 and 8 are eligible to become a member of Junior Chorus where there will explore a variety of choral music styles in an ensemble setting. Working together as a team is an essential and necessary element of this class. Students will gain basic music literacy skills which will prepare them for Senior Chorus in grades 9-12. They will also learn about their own voice, through exploration of vocal technique, health, and pedagogy. Junior Chorus will give students the skills to become a better musician and singer, as they will become well informed about their own voice as well as how to use their own voice while singing with others. Students in Junior Chorus will strive to perform vocal pieces in 2-3 parts, levels I-III (easy to medium). Junior Chorus will allow students supplementary opportunities that will also help them to grow as a musician, such as All-County Chorus, NYSSMA Solo Festival and other unique hands-on opportunities. This course meets every other day.

Final Exam: School

961 Senior Chorus

Credits: .5

Prerequisites: Junior Chorus or instructor approval

Class Meeting: Every other day/1 year

Course Description:

Students in grades 9-12 are eligible to become a member of Senior Chorus where they will explore a variety of choral music styles in an ensemble setting. Working together as a team is an essential and necessary element of this class. Students will expand their music literacy skills learned in Junior Chorus, leading them to become a well-rounded musician. They will also expand their knowledge about their own voice, through further exploration of vocal technique, health and pedagogy. Senior Chorus will give students the skills to become a better musician and singer, as they will become informed about their own voice as well as how to use their own voice while singing with others. Senior Chorus is meant to follow participation in Junior Chorus, preparing student for studies in music in college. Students in Senior Chorus will strive to perform vocal pieces in 2-4 parts, levels II-IV (medium to advanced). Senior Chorus will allow students supplementary opportunities that will also help them to grow as musicians, such as All- County Chorus, NYSSMA Solo Festival and other unique hands-on opportunities. This course meets every other day. *Final Exam: School*

9611 Independent Chorus: Students may take Independent Chorus if their current schedule does not allow for enrollment in Junior/Senior Chorus

965 Junior Band

Credit: .5 (may be repeated for credit)

Prerequisite:

7th grade: Prior participation in elementary band and/or teacher recommendation8th grade: Prior participation in elementary band and junior band; or teacher recommendationCourse Description:

Class Meeting: Every other day/1year

In Junior Band students will perform a range of music including concert band works, modern composition, and pops music. While in band, students will learn principles of ensemble playing and music literacy. Music literacy includes decoding notation, developing aural skills to make musical meaning of notation, and critical thinking related to interpreting and performing music. Included with the course grade are weekly pull-out lessons (of which students must attend 3 out of 6 weeks) with like instruments to develop specific performance techniques. Students are expected to practice regularly for band rehearsals and lessons and this is considered homework for the course. This is a performing ensemble; students are required to attend all performances. *Final Exam: School*

966 Senior Band

Credit: .5 (may be repeated for credit)

Prerequisite: Prior participation in junior band and/or teacher recommendation

Course Description:

Class Meeting: Every other day/1 year

In Senior Band students will continue to perform a variety of music including traditional concert band works, modern compositions, and 'pops' music. While in band students will develop their ensemble playing skills and their music literacy. Music literacy includes decoding notation, developing aural skills to make musical meaning of notation, and critical thinking related to interpreting and performing music. Included with the course grade are weekly pull-out lessons (of which students must attend 3 out of 6 weeks) with like instruments to develop specific performance techniques. Students are expected to practice regularly for band rehearsals and lessons and this is considered homework for the course. This is a performing ensemble; students are required to attend all performances. *Final Exam: School*

968 Band Independent Study

Credit: .5

Class Meeting: Every other day/1 year

950 General Music

Prerequisite: 7-8th grade

Class Meeting: 5 times/week/1 year

Course Description:

Music in Our Lives is offered to 7th and 8th grade students who are looking for an alternative music class to band and/or chorus. Students will gain musical experiences in singing, playing, composing, etc. Students will become investigators of music making and explorers of new ideas. Students are encouraged to think and discuss different aspects of music in terms of its importance to society, while also gaining basic techniques to further their musical interests beyond the scope of the course. Units can include:

- Ukulele - Learning the fundamentals of the instrument and how to read basic chord notation.
- Guitar - Learning the fundamentals of guitar and how to read tablature and chord notation. Students will also begin to accompany themselves with the instruments.
- Piano - Learning basic techniques on piano to play melodies and chord accompaniments. Students will also learn how to read traditional notation with this unit.
- Songwriting - Using techniques built upon from the previous units, students will write and record their own songs and learn how to critique constructively.
- Music News - Students will read and respond to various newsworthy items in the music world. This will span from current events to the beginning of Western Music.

Students may be asked to complete several performance tasks including: a chamber concert, a research project, and a community event. This course will meet every other day. *Final Exam: School*

969 Music in Our Lives

Credit: .5

Prerequisites: None

Class Meeting: Every other day/1 year

Course Description:

This course is offered to students in grades 9 through 12. Music in Our Lives is designed to engage any student in popular music making at the most basic level or in continuation from middle school general music. Students will study ukulele and learn how to read chord notation. Next, students will further their skills by studying guitar. With guitar, students will learn to read TAB as well as traditional music notation. Then, students will explore piano and learn to improvise and create their own music. Finally, students will be allowed to further explore any of the previous units to create a pop group with their peers. Occasional informal performances may be required in this class, however performing is not the primary focus of this course.

HEALTH & PHYSICAL EDUCATION DEPARTMENT

905 HS Girls Gym

Credit: .5

906 HS Boys Gym

Class meeting: Every other day/1 year

Course Description:

The physical education course is designed to provide students with lifelong knowledge and skills that will enhance their overall level of physical fitness through team and individual activities. Class participation and wearing appropriate exercise clothing is **required** in order to pass the course. *Final Exam: School*

975 High School Health

Credit: 5

Prerequisite: None

Class meeting: 5 times/week/1 semester

Course Description:

Graduation Requirement

The course is designed to provide students with cognitive-based skills and decision-making skills which will lead to health promoting behaviors. The classroom topics are varied and coincide with National and State standards in health education. *Final Exam: School*

972 Wellness and Nutrition

Credit: .5

Course Description:

Class meeting: 5 times/week/1 semester

This course is designed to provide students with the knowledge and skills necessary to promote healthy development into adulthood. Specifically the course focus is on nutrition, physical activity, and mental wellness. The course topic and activities are varied and are utilized to promote overall health and wellness. *Final Exam: School*

SUPPORT SERVICES

Resource Room

Prerequisite: IEP Requirement

Class Meetings: 5 days/week or

Course Description:

Alternate Days/ 1 year

Resource room is an opportunity for students to receive specialized support for all their academic classes. Specific focus will be paid to developing content knowledge as well as the requisite skills in the 40 minute class that can occur 5 times per week or alternating days. The instructor will use course specific assignments as well as independently created mini-lessons to help students achieve success for their course work. The class time will also be used to monitor the progress made towards achieving their IEP goals. Resource room is available for students in grades 7 -12 who also have an IEP.

DISTANCE LEARNING

The following courses are Distance Learning, not taught by Hoosic Valley teachers. They are subject to enrollment restrictions. Availability of these courses may change from one school year to the next.

HVDL0200 General Psychology (HVCC)

Credit: .5 (3 college credits)

Prerequisite: Junior or Senior Standing

Class Meeting: 3 times/week/1 semester

Course Description:

This course is a systematic empirical study of human behavior. The major topics covered include research methodology, learning, memory, motivation, emotion, perception, language development, intelligence, personality theories, anxiety and stress, abnormal behavior, and therapy. This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By Instructor*

HVDL0201 Developmental Psychology (HVCC)

Credit: .5 (3 college credits)

Prerequisite: General Psychology

Class meeting: 3 times/week/1 semester

Course Description:

This course involves a systematic life span approach to the study of human development from conception to death. The major areas taught will include physical, cognitive and social/personality changes. This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By instructor*

HVDL0210 Sociology (HVCC)

Credit: .5 (3 college credits)

Prerequisite: Junior or Senior Standing

Class Meeting: 3 times/wk/1 sem.

Course Description:

This course is an introduction to the scientific study of human social interaction with emphasis on societies, groups, organizations, social networks and communities as the units of analysis. The topics covered include culture, stratification, race and ethnic relations and social institutions. This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By instructor*

HVDL0211 Social Problems (HVCC)

Credit: .5 (3 college credits)

Course Description:

Class Meeting: 3 times/week/1 semester

This course is a study of major American social problems with emphasis on their nature, scope, causes, consequences and possible solutions. Major topics covered include: political, educational and familial problems, inequality and poverty, environmental problems, crime, and mental illness. This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By instructor*

HVDL0600 Legal and Ethical Environment of Business I

(Business Law I)

Credit: ½ (3 College Credits)

Course Description:

Class Meetings: 3 times/week/ 1 semester

This course is offered to students in grades 11 and 12. The course is an introduction to the origins, framework, and concepts of legal and ethical environment of business. The emphasis is on contracts and business organizations including partnerships, corporations, and the law of agency. This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By Instructor*

HVDL0601 Legal and Ethical Environment of Business II

(Business Law II)

Credit: ½ (3 College Credits)

Prerequisite: Business Law I

Class Meetings: 3 times/week/1 semester

Course Description:

This course is offered to students in grades 11 and 12. The course covers the law of sales, commercial transactions and the Uniform Commercial Code as well as ethical implications. Additional topics include personal property and bailments, real property, insurance, wills, and trusts.

This course is offered via Distance Learning from Hudson Valley Community College. The tuition is paid by the students registered for the course. *Final Exam: By Instructor*

NERC0611 Advertising

Credit: ½

Course Description:

Class Meeting: 5 times/week/ ½ year

How would you like to analyze commercials, conduct market research, design logos, create slogans and jingles and create radio and television commercials on your own? This class presents an overview of marketing and advertising --the business operations that connect a product or service to its customers. Through hands-on projects, students will learn skills and concepts such as the four P's of marketing, channels of distribution, sales, customer service, advertising and promotion, communications and human-relations skills. Student leadership development and employment skills are integrated into this class.

Explore the strategies and tactics used by the world's most successful companies. Class time blends creative group projects, guest speakers, and in-depth analysis of innovative marketing initiatives from well-known businesses. Learn and apply basic concepts of marketing/advertising and characteristics of free enterprise, including promotional strategies, branding and advertising, entrepreneurship, market research, professional development, and business ethics.

This course also focuses on the competencies needed for the planning and implementation of a successful advertising program. Students are exposed to media methods of research, budgets, and evaluations that are used to sell a product, service, or business. Hands-on experience is given in copy writing, layout, and production in various media.

NERC0299 American History Through Film

Credit: ½

Course Description:

Using motion picture films to determine what is valid in history. The course will also explore what these films say about the people who create them and the politics behind their creation. Also, analysis on how these films reflect the values, ideas, and larger historical issues of the times in which they were created.

Class Meeting: 5 times/week/ ½ year

Quizzes on films will be given routinely. A brief paper analyzing the film may be assigned at the end of each quarter.

NERC0750 Civil Engineering and Architecture

Credit: 1

Prerequisites: Successful completion of Introduction to Design class or the equivalent. Students may enter the course without completing Introduction to Design if they have permission from the instructor.

Course Description:

Students apply what they learned about various aspects of civil engineering and architecture to the design and development of a property. Working in teams, students explore hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

Class Meeting: 5 times/week/ 1 year

NERC0240 Criminal Justice

Credit: ½

Host District: Catskill

Prerequisites: Social Studies 11 US History and Government

Course Description:

This introductory criminal justice class will provide students a basic understanding of the criminal justice system with emphasis on careers within law enforcement, corrections, and the courts. Students will be able to discuss the general structure of the criminal justice system and the careers within the system. In addition, students will be able to discuss the steps in career planning for criminal justice.

Class Meeting: 5 times/week/ ½ year

This course is pending approval for 3 college credits through Columbia-Greene Community College (CGCC).

OTHER NOTES / MISCELLANEOUS: Criminal Justice will satisfy the 1/2 credit for Participation in Government Requirement

NERC0710 Housing Design

Credit: ½

Course Description:

Class Meeting: 5 times/week/ ½ year

This course is a half year course. The first quarter students would be learning about housing. Some things that are associated with house are, the different styles of housing throughout the decades, different styles of architecture that are commonly used or have been used in the past. Students will also be learning about how to use a Computer Aided Design program to help them create a house for a client. The second quarter, students will be adhering to different wants and need of each of the clients they will be working for. Students will face challenges based on clients' various needs to create, or re-design their homes. Students will be using resources such as several HGTV shows, and guest speakers who are Architects and Interior Designers to help them complete and generate ideas for their projects and activities.

SPONSORING COLLEGE: The Sage Colleges (Pending)

NERC0290 Interior Design

Credit: ½

Course Description:

Class Meeting: 5 times/week/ ½ year

This course is a half year course. The first quarter students will be learning about the different aspects that are involved in designing commercial and residential spaces. They will also be learning about the different art styles that are used when designing interior spaces. The second quarter, students will be taking the houses they have created for clients and designing the interior based on the client's needs and wants. Students will be using resources such as several HGTV shows, and guest speakers who are Architects and Interior Designers to help them complete and generate ideas for their projects and activities.

SPONSORING COLLEGE: The Sage Colleges (Pending)

NERC0610 Marketing

Credit: ½

Course Description:

Class Meeting: 5 times/week/ ½ year

How would you like to analyze commercials, conduct market research, design logos, create slogans and jingles and create radio and television commercials on your own? This class presents an overview of marketing and advertising --the business operations that connect a product or service to its customers. Through hands-on projects, students will learn skills and concepts such as the four P's of marketing, channels of distribution, sales, customer service, advertising and promotion, communications and human-relations skills. Student leadership development and employment skills are integrated into this class.

NERC0290 Sports History

Credit: 1

Course Description:

Class Meeting: 5 times/week/ 1 year

Sports History journeys from the early American past to the present to give students a compelling grasp of the historical evolution of American sporting practices. This course provides students with insights that will allow them to develop new and alternative perspectives, examine sport as a social, economic and cultural phenomenon, generate a better understanding of current sport practices, and consider future developments in sport in American life. The main objective of the course is to understand the social and economic impact of sports on American society.

Projects along with Sports Documentaries and Films are a major part of the class.

NERC0410 Veterinary Science

Credit: 1

Prerequisites: Grades 10-12 Biology or Ag Science

Class Meeting: 5 times/week/1 year

Course Description:

This course is designed to help students better understand animals. Whether you live in a rural or urban area, knowledge of animal diseases, together with health care, is very valuable. Vet Science goes far beyond dealing with just the animal. It involves the protection of human health and promotion of human welfare by applying the arts and sciences of medicine to animals. The improvement safeguards our food supply. Inspection of meat and poultry, along with the care of all food and pet animals, controls the diseases that directly affect mankind. Topics covered will be the normal animal and its functions, animal diseases and their causes, and seven animal systems. Each student will put together a visible animal of their choice as a project associated with the systems.

Final Exam: By Instructor