



# Oneida High School

*Oneida City School District*

## Course Description Handbook

# 2021-2022



*Working Together for Success*



Dear Parents and Students,

At Oneida High School, we believe that careful academic program planning is essential to assist students in reaching their full potential. The information contained within this Course Description Handbook is provided so that students, parents, and counselors can work together to achieve our goal to educate, inspire and empower students.

Within this handbook, you will find important information pertaining to course planning that includes:

- Graduation requirements established by the New York State Education Department
- Advanced Placement and College Credit Course Offerings
- BOCES Occupational Education and New Visions Programs
- Course Descriptions, Suggested prerequisites, Course Credits and other policies

Regardless of each student's individual goal, it is the goal of Oneida High School to educate, inspire and empower students.

Sincerely,

Oneida High School Administrative Team



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### ***Message from the OHS School Counseling Team:***

The education of a student is a responsibility shared by parents, their child and the school. It is important for students and their parents to be fully informed about the new requirements for graduation and the courses available at Oneida High School. We hope this publication will be helpful as we work together to develop an appropriate academic program for each student.

Teacher recommendations, standardized test scores, past performance, interests and future plans are considered in the course selection process. Upon completion of the student/counselor scheduling conference, students will bring home a copy of the Course Selection Worksheet. This sheet will indicate the student's courses recommended by teachers and courses selected for the upcoming school year.

Students in eighth grade will have an opportunity to learn about high school program options and graduation requirements. Each student will have the opportunity to meet at the middle school with a counselor and high school teachers to establish a schedule for ninth grade.

Counselors are available to answer questions about the scheduling process as well as what might be required to achieve educational and career goals. We look forward to working with you this year.

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## **HOW TO USE THIS BOOKLET**

The first portion of this booklet is designed to assist you in the scheduling process. In addition to defining general terms and graduation requirements, the booklet provides information regarding schedule changes, summer school, accelerated courses, weighting of grades and other policies/procedures. The second part of the booklet describes in detail, all of the courses which are offered at Oneida High School. As you read the course descriptions, please be aware of the following guidelines:

1. Some of the courses listed are not offered every year. The descriptions are included to assist you in sequence planning.
2. There may be exceptions to some of the grade level and/or suggested prerequisite information -- check with your counselor if you have questions.
3. The exam information refers to required tests. Your teacher may choose to give a local exam in addition to the required state test listed in the course description.
4. The Project Lead the Way program, preparing students for engineering careers, is located in the Technology Department.
5. Course availability is subject to change due to enrollment numbers.

## **THINGS TO KNOW ABOUT HIGH SCHOOL**

**Credit:** A credit is what you earn when you pass a course. A subject that meets every day for the entire year earns one credit; a course that meets every day for half a year earns the student one half credit.

**PASSING MARKS:** The passing grade in all subjects is 65% or a "P" for pass.

**REGENTS EXAMS:** The NYS Education Department has instituted new graduation requirements in English, Social Studies, Math and Science. Please refer to the chart below for the new assessments.

**SUGGESTED PEREQUISITE:** A suggested prerequisite is a course we recommend you complete as a sensible requirement for another course.

**REQUIRED AND ELECTIVE COURSES:** In addition to some courses which all students are required to take in order to meet graduation requirements, there are opportunities for students to take courses of their own choosing (called electives) according to their own interests and needs.

**ACCELERATED COURSES:** In eighth grade, certain high school courses are offered to students who are ready to handle the work. Presently, Spanish 1, French 1, Algebra Accelerated, Studio Art I, and Living Environment can be taken in the middle school. The course(s) can earn high school credit for the eighth grader.

**ADVANCED PLACEMENT ELECTIVES:** (Must have teacher recommendation) Advanced placement courses are freshman college level courses which are taught by OHS faculty. College Credit may be granted by the college attended according to its policies and by the score earned on the AP exam taken in May. The exam cost is approximately \$94.00. There may be financial assistance for students who receive reduced or free lunches. Courses are offered in English Literature, American History, World History, French, Chemistry, Biology, Statistics, Calculus, Computer Science and Art, when there is sufficient enrollment.

**DUAL CREDIT:** Dual credit courses give students the opportunity to earn both high school and college credits through Mohawk Valley Community College. For all courses marked as dual credit, the college credit is pending on grades and attendance, college credit is not guaranteed.

**OVERVIEW:** Students must meet all the requirements set forth by New York State, including passing all Regents Examinations, and the requirements of the Oneida City School District to successfully graduate from high school. Students must earn a minimum of 22 credits in designated courses; these requirements are outlined below.

## GRADUATION REQUIREMENTS

Subject	Regents w/ Advanced Designation		Regents Diploma and Local Diploma (Students w/ Disabilities)	
	Credit	Examination Requirements	Credit	Examination Requirements
English	4	<u>1 Exam</u> ELA Common Core	4	<u>1 Exam</u> ELA Common Core
Social Studies	4	<u>2 Exams</u> U.S. History Regents Global History Regents	4	<u>2 Exams**</u> U.S. History Regents Global History Regents
Mathematics	3	<u>3 Exams</u> Algebra Common Core/Regents Geometry Common Core/Regents Algebra 2 & Trigonometry	3	<u>1 Exam</u> Algebra
Science	3	<u>2 Exams</u> Living Environment Regents Physical Science Regents (Earth Science, Chemistry or Physics)	3	<u>1 Exam</u> Living Environment Regents –OR Physical Science Regents
Art or Music	1		1	
Health	.5		.5	
LOTE (Language other than English)	3*	<u>1 Exam</u> Level III, Checkpoint B Examination for Regents credit	1	
Physical Education	2		2	
Electives	3.5		3.5	
<b>Total Credits Required</b>	<b>22.5</b>		<b>22.5</b>	

**Advanced Designation:** Students must pass any one of the following combinations of Regents examinations:

A. Traditional   B. Pathway   C. STEM (Math)   D. STEM (Science)

\* A student must also pass either a locally developed Checkpoint B LOTE examination or complete a 5- credit sequence in the Arts or CTE.

**A. Traditional Combination:** ELA, Global History and Geography, US History and Government, 3 mathematics, 2 sciences, 1 must be life science and 1 must be physical science) = 8 Assessments

**B. Pathway Combination (other than STEM):** ELA, 1 social studies, 3 mathematics, 2 sciences (1 must be life science and 1 must be physical science), and either 1 Pathway (other than science or mathematics) or meet requirements for the CDOS Commencement Credential = 7 or 8 Assessments

**C. STEM (Mathematics) Pathway Combination:** ELA, 1 social studies, 4 mathematics, 2 sciences (1 must be physical science) = 8 Assessments

**D. STEM (Science) Pathway Combination:** ELA, 1 social studies, 3 mathematics, 3 sciences (1 must be life science and 1 must be physical science) = 8 Assessments

**Math and/or Science Mastery Endorsement:** To receive this endorsement, students on the Regents with Advanced Designation track must successfully complete all required coursework and examinations. Students must obtain an 85 or higher on three NYS Regents examinations in the subject area they wish to obtain Mastery in (Mathematics/Science or both). Doing so will earn the student an annotation of Mastery on their diploma.

**Career and Technical Education Endorsement:** Students have an opportunity to earn a CTE seal of endorsement on their diploma. To qualify, students must complete a minimum five-credit series of approved courses at BOCES and pass an associated technical assessment.

## **SCHEDULING GUIDELINES**

1. **Scheduling Load:** All students are required to take an equivalent of six and a half credits per year (in addition to Physical Education).
2. **Schedule Changes:** Much work has been put into the proper development of each student's schedule prior to the beginning of the school year. It is therefore expected that students remain in the courses that have been chosen as part of their schedules which were developed cooperatively by counselors, students and parents. It is believed that the decision to enroll in specific courses involves a commitment to those courses. In addition, students may not enroll in a course after three weeks of the semester has expired.
3. **Course Withdrawal:** After a course has been run for five days, a student who is requesting to drop will receive a W (Withdraw) on their transcript. After the two week window for a semester course, and a five week window for a full year course, students who request to drop a course will not be approved. Only extenuating circumstances discussed at a meeting with the student, parent, executive principal and school counselors will allow for students to potentially be dropped from a course after these dates. Final decision will be made by the Executive Principal.
4. Requests for a schedule change must be made in writing and approved by the principal using the appropriate forms from the Counseling Office.

**REGENTS AND LOCAL COURSES:** At Oneida High School, three types of courses are offered to accommodate the diversity of students' abilities: Advanced Placement, honors and Regents courses.

- Courses considered to be at the Regents level are for the large majority of students who are of average ability and are doing work at, or above, grade level. In addition, Advanced Placement courses are available for those students whose class work and test scores are regularly and significantly above average. Teacher recommendations are required for those advanced courses, with rigorous curriculum content and expectations for analytical thinking which appropriately challenge the student.
- Students are not locked into a program-anyone may take a Regents level course in one area such as math and be in a local level course in English or social studies. Since all courses are identified as either Regents or local level courses on the transcript, students are encouraged to take as many Regents courses as are appropriate for the best college/work preparation.

## **CDOS Credential**

Students who are unable to earn a regular diploma may graduate with the NYS Development Occupational Studies (CDOS) Commencement Credential as their only existing credential. The NYS CDOS Commencement Credential certifies a student has the standards-based knowledge and skills necessary for entry-level employment. The credential is also available for the 4+CDOS pathway option for a high school diploma if the student meets the graduation course and credit requirements. Eligibility for this credential will be reviewed yearly.

## **HONOR ROLL**

Each marking period, students who have earned honor and high honor roll recognition will have their names posted. To make honor roll, a student must carry at least six credits and have no incomplete grades. High honor roll requires a 90% or better average; honor roll requires at least an 85%.

## **COURSE CREDIT**

Students obtain credit for their courses by earning an overall passing average in each course. This average is called the "promotional average" and is determined by averaging the midterm exam and final exam along with four report card marking period grades. Passing only the high school exam or Regents exam does not guarantee passing the course. A promotional average of 65 or higher is necessary to pass a course.

## **RECEIVING CREDIT FOR FAILED COURSES**

A student may earn credit for a previously failed course in the following ways:

1. The student may attend summer school and pass the course.
2. The student may repeat the course for an entire school year and pass the course.
3. Students may enroll in APEX lab for credit recovery.
4. In courses where the Regents exam is the final exam, a student may repeat the course for only one semester, if the student has already passed the Regents exam.
5. A student may “test out” of a course he/she is repeating. The student must have a passing overall grade for semester one to be eligible to “test out.”

## **DOUBLING OF COURSES**

Students may double up in English, Social Studies, Science or Math. Doubling of courses must be a student’s choice & have parent permission. Final approval is decided by the Executive Principal & discussed with school counselors.

## **ELIGIBILITY FOR SUMMER SCHOOL AND NIGHT SCHOOL**

Summer school and night school is offered through BOCES. Night School enrollment is limited and with recommendation from SAT committee.

## **COURSE CREDIT WITHOUT COURSE ENROLLMENT**

It is recognized on a statewide level that students may earn a maximum of 6.5 units of credit for either Regents or local level course study without being enrolled in those courses (challenge credit). It is also recognized that the criteria for approval to honor such requests will differ from school to school throughout the state.

At Oneida High School, the criteria for admission of such pupil requests will be determined and adopted after input is received from the faculty, department chairpersons, counselors, assistant principal, principal and superintendent.

Although each department has its own specific criteria for admission and specific requirements for credit approval, the general set of criteria which a student must first meet for qualification is as follows:

1. Written submission of the completed "Course Challenge Form" for each course requested.
2. Signed approval by the high school principal (Course Challenge Form).
3. The requested course must be an advanced course to any that have been completed prior to the request.
4. The student must have successfully completed at least one full semester at our high school.
5. A minimum average of 90% must have been maintained in the discipline area of the request.
6. the student achieves a score of at least 85 percent, or its equivalent as determined by the commissioner, on a State-developed or State-approved assessment pursuant to section 100.2(f) of this Part;
7. Standardized test scores must reflect a potential for success in the discipline as interpreted by the counselor.
8. All final examinations will be administered at normal/routine testing calendar dates.
9. The principal will grant credit after consultation with the teacher of the course, department chairperson and counselor after successful completion of all criteria is determined.

## **EARLY GRADUATION**

Some students may be interested in accelerating the date of their high school graduation. Parent involvement and consent must begin by 10th grade. Eligibility must be determined with the appropriate counselor. After the student and parent/guardian complete applications, they are reviewed in a parent conference with the principal before approval is granted.



## **RELEASE OF INFORMATION**

Students who wish to have the school provide transcripts to colleges or employment offices must put in a written or electronic request (i.e.: Common Application). In order to protect the integrity of all transcripts, only mailed/uploaded transcripts will be official. All transcripts hand-carried will be marked unofficial. ACT/SAT and AP Exam scores are on transcript as a courtesy to the student. If you wish to have them removed, we must receive this request in writing.

## **REPORT CARDS**

Report cards will be issued to students via mail, and available on parent and student portal. Any parent who wishes to have additional information regarding academic status should contact the Counseling Office at 363-6901 option 3.

## **STUDENT ATHLETICS AND NCAA REQUIREMENTS**

Students who intend to compete in college athletics at the Division I or II level need to be aware of program requirements. A detailed listing of the requirements is available in the counseling office or on the internet at [www.ncaa.org](http://www.ncaa.org). Potential college athletes need to enroll in college prep courses in high school in order to qualify. Not all classes qualify as core courses. Discuss your options with your counselor to plan the most appropriate program of study.

<b><u>DIVISION I</u></b> <b><i>16 CORE-COURSE</i></b>	<b><u>DIVISION II</u></b> <b><i>16 CORE-COURSE</i></b>
4 years of English	3 years of English
3 years of mathematics (Algebra 1 or higher)	2 years of mathematics (Algebra 1 or higher)
2 years of natural/physical science	2 years of natural/physical science
1 year of additional English, math	3 years of additional English, math or natural/physical science
2 years of social science	2 years of social science
4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)	4 years of additional courses (from any area above, foreign language religion/philosophy)

## **MVCC College Connection**

MVCC offers opportunities for high school Juniors/Seniors to receive college credit as part-time college students.

Through College Connection, high school students who are recommended by their School Counselor may take courses on the college campus nearest their high school.

School Counselors work closely with the Office of Engagement and Outreach to select courses that are highly transferable to the college of choice or in getting a head start on a degree at MVCC. High school students who qualify will be financially responsible for a student activity fee, technology fee, lab fees, health center fees and book purchase.

**\*\*College Connection courses will not be listed on students transcripts and will not be counted towards a student's GPA unless the course is required for graduation.**

**\*\*\*\*All of the following courses are tentative, and not guaranteed to be offered next year\*\*\*\***

## ART

<b>STUDIO ART 1</b>	.5 Credit	Grade 9-12	* Local Exam
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Studio Art is a foundation course designed to provide the student with a comprehensive exploration of a broad range of art mediums and an understanding of the art elements and principles.

*8<sup>th</sup> grade students are eligible to take this course for credit as an accelerated option with art teacher recommendation.*

<b>STUDIO ART 2</b>	.5 Credit	Grade 9-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Studio Art 1

Studio Art 2 is designed for the student who has acquired the basic skills and techniques of Studio Art 1 and is ready to explore in depth application of these skills and techniques.

<b>MECHANICS OF DRAWING</b>	.5 Credit	Grade 9-12	* Local Exam
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This class is designed for students who wish to pursue a career in architecture, design, or engineering while developing a solid foundation of the elements and principles of design. Mechanical drawing tools, scale, perspective, as well as architectural trends and basic drawing skills will be explored. Students will learn the design process and how to communicate their *ideas* through visual means.

<b>DRAWING AND PAINTING 1</b>	.5 Credit	Grade 10-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Studio Art 1 (or Mechanics of Drawing) and Studio Art 2

This is a hands-on studio course where students will explore a variety of tools, techniques, and processes through studio projects in a variety of drawing and painting media. Students will develop skills in the creative process and visual communication. Work created in this course will be used to develop the student's art portfolio.

<b>DRAWING AND PAINTING 2</b>	.5 Credit	Grades 10-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Drawing & Painting 1

This course is for the student who has successfully completed the basic skills and techniques of Drawing and Painting 1. This is a hands-on studio course where students will further explore a variety of tools, techniques, and processes through studio projects in a variety of drawing and painting media. Students will develop skills in the creative process and visual communication. Work created in this course will be used to develop the student's art portfolio.

<b>CERAMICS AND SCULPTURE 1</b>	.5 Credit	Grade 10-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Studio Art 1 (or Mechanics of Drawing) and Studio Art 2

This is a hands-on studio course where students learn about and explore a variety of tools, techniques, and processes through studio projects in ceramics and sculpture. This course involves creative problem solving with structure, construction, and form. Work created in this course will be used to develop the student's art portfolio.

<b>CERAMICS AND SCULPTURE 2</b>	.5 Credit	Grade 10-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Ceramics and Sculpture 1

This course is designed for students to further explore more complex and in-depth skills and techniques in ceramics and sculpture. Techniques such as wheel-throwing, glasswork, and/or metalsmithing may be included. Work created in this course will be used to develop the student's art portfolio.

<b>COMPUTER GRAPHICS 1</b>	.5 Credit	Grade 10-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Studio Art 1 (or Mechanics of Drawing)

Introduction to the creation and digital manipulation of images. Adobe Photoshop and Adobe Creative Suite software is used in this course. This course can be used as a technology elective.

## ADVANCED ART COURSE INFORMATION

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### PORTFOLIO DEVELOPMENT

\* Teacher Recommendation only

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*SUGGESTED PREREQUISITE:* Studio Art 1, Studio Art 2, Drawing & Painting 1 and/or Sculpture & Ceramics I

This course is for students that have a solid foundation in either Drawing and Painting and/or Ceramics and Sculpture and are ready to work on more independently-driven projects that will help develop the student's art portfolio. Students in this course will continue to advance their skills and knowledge about the tools and processes in their chosen art medium as well as develop their individual artistic medium preferences and artistic style. Work created in this course will be used to develop the student's art portfolio.

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<b>MVCC DIGITAL APPLICATIONS</b> (GD 145)	.5 Credit 3 College Credits	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Studio Art 1, Studio Art 2, Computer Graphics 1

This course introduces 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. *WEIGHTED*

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<b>MVCC GENERAL DRAWING</b> (FA101)	.5 Credit 3 College Credits	Grade 11-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Studio Art 1, Studio Art 2, Drawing & Painting and/or Sculpture & Ceramics

This 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 a survey of graphic representation. Classroom work consists of drawings that show line, value, tone, form, texture, space, and proportion. *WEIGHTED*

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<b>MVCC FOUNDATION AND DESIGN</b> (FA105)	.5 Credit 3 College Credits	Grade 11-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Studio Art 1, Studio Art 2, Drawing & Painting and/or Sculpture & Ceramics

This 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. *WEIGHTED*

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<b>AP/ STUDIO ART</b>	1 Credit	Grade 12	*Portfolio
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*SUGGESTED PREREQUISITE:* Studio Art 1 and Studio Art 2, Drawing & Painting and/or Sculpture & Ceramics, MVCC General Drawing and Foundation Design-*WEIGHTED*

AP Studio Art is a unique rigorous college level course that requires students to manage their time, work independently and to closely monitor the quality of their work. These skills are empowering and are useful in any career. If successful, by the end of this course the student should receive college credit, have the experience of working at a college-level caliber, and create a promising portfolio. Portfolio Choices are 2D, 3D, and Drawing. Potential AP Studio in Art students must complete three summer assignments. The quality of work done will help secure placement in the AP Studio program the following Fall. Portfolio work during the Junior year will focus on the Breadth portion of the AP Portfolio. Eight to twelve high quality works in a variety of media will be required. Senior year work will focus on the concentration portion of the AP Portfolio. Twelve high quality works based on a particular artistic concept, problem or theme will be required. Students may choose to complete one or more of the following portfolios:

\* Drawing Portfolio (24 total pieces) \* 2D Design Portfolio (24 total pieces/can include photography and computer graphics) \* 3 D Design Portfolio (20 total pieces) Competency is not based on a written examination; instead students submit completed portfolios for professional evaluation in May of the senior year. Portfolios are prepared under the guidance of the instructor and then are reviewed by university and secondary art instructors using rigorous standards. Students may earn up to six college credits.

## BUSINESS

<b>MVCC PERSONAL FINANCE (BM 108)</b>	1 Credit 3 College Credits	Grade 11- 12	* Local Exam
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*Can be used as a third credit of math.*

This 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, personal income tax, investments (stocks, bonds, and mutual funds), insurance, retirement and estate planning. The effective management of credit is also covered. **WEIGHTED**

<b>INTRODUCTION TO OCCUPATION</b>	.5 Credit	Grade 9-12	* Local Exam
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This course covers two areas: The working citizen and personal resource management. Course content as it relates to the working citizen, includes: choosing a career, finding and applying for jobs, resume and cover letter, interviewing, beginning a new job and attitude in the workplace. Course content as it relates to personal resource management includes; maintaining personal finances including checking accounts, consumer protection and our individual role in the U.S. and global economy.

<b>COMPUTER APPLICATIONS I</b>	.5 Credit	Grade 9	* Local Exam
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Students will gain a general understanding and correct use of the computer keyboard. Students will input, edit, save, retrieve and print information on the computer using Microsoft Office Suites. The main emphasis will be in preparation of a research paper including works cited and outlines, creating spreadsheets containing basic formulas and charts/graphs and creating an effective PowerPoint presentation. Students will complete a culminating project utilizing these programs researching careers that interest them. Areas of focus will include: job description, education/training needed, where to obtain education/training, average salary/wage, and where jobs are most plentiful for each.

<b>MVCC SPREADSHEETS AND APPLICATIONS (IS 200)</b>	.5 Credit 3 College Credits	Grade 9-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Microsoft Computer Applications I

This course will extend the knowledge of the student who is already familiar with electronic spreadsheets. Various spreadsheet packages will be examined. Popular software packages will be chosen to illustrate the similarities and differences among the electronic spreadsheets. Students will cover intermediate and advanced spreadsheet techniques, including exploring the power of functions in depth, using analytical graphics, and writing macros to automate their spreadsheets. The course will be taught in a lecture and laboratory format. Each student will be required to take examinations and complete projects on the computer. **WEIGHTED**

<b>MVCC FINANCIAL ACCOUNTING (AC 115)</b>	1 Credit 3 College Credits	Grade 10-12	*Local Exam
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This course is the first of a sequence that explores fundamental accounting principles, concepts and practices as a basis for the preparation, understanding and interpretation of accounting information. This course covers the complete accounting cycle for service and merchandising businesses through the adjustment and closing process and preparation of the income statement, statement of owner's equity, and the balance sheet. The details of accounting for cash, receivables, inventory, long-lived assets and current liabilities will be explored. **WEIGHTED**

<b>ACCOUNTING 2</b>	1 Credit	Grade 11- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Accounting 1

This course is an extension of the Accounting 1 course and is designed to develop the occupational skills and knowledge needed to prepare students who expect to pursue a career in Accounting or Business Administration/Management. Students will be involved more extensively in accounting topics such as corporate accounting, inventory control, depreciation of plant assets and extensive income tax preparation training. Students will also use the Internet to conduct searches of Fortune 500 companies and then use state-of-the-art technology to present the financial data of a business.

<b>MVCC PRINCIPLES OF MARKETING (BM 120)</b>	.5 Credit 3 College Credits	Grade 11- 12	* Local Exam
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This course is a step by step journey through the world of marketing. Businesses spend over \$200 billion dollars per year on advertising. Students get a hands-on appreciation of the overall marketing strategy including product development, pricing strategies, distribution and advertising and promotion. By studying these fundamental components of business, students will be better prepared to enter work in any field, and also will become a more active and aware consumer. Students could potentially earn both high school credit and college credit from MVCC. *WEIGHTED*

<b>SPORTS &amp; ENTERTAINMENT MARKETING II</b>	.5 Credit	Grade 11- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* MVCC Principles of Marketing (BM 120)

This course is designed so that students who have completed MVCC Principles of Marketing, can apply the concepts to two of the largest industries in the United States. Get an inside look at how these industries function as businesses. See how other businesses capitalize on the tremendous power of sports and entertainment in our culture, and how athletes and entertainers play a key role.

<b>BUSINESS OWNERSHIP</b>	.5 Credit	Grade 11- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Must have earned 2 credits in business courses Teacher permission required.

Business Ownership is designed for the student who has a desire to start a business. Effective business planning is the cornerstone of success. Students will develop leadership and problem solving skills as well as methods for analyzing various markets and competition, setting achievable goals and focus on a strategic business plan. Students will benefit from case studies and practical entrepreneurial experiences including working in the school bookstore.

<b>BUSINESS LAW</b>	1 Credit	Grade 11- 12	* Local Exam
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This course is recommended as an elective for all high school juniors and seniors. Essentially, the course is designed as an introductory law course. Students will gain an appreciation and respect for how the law affects them at home and at work. Topics covered include; the legal environment, ethical decision making, constitutional law, criminal law, civil law, contract law, personal and real property law and consumer protection.

# ENGLISH

<b>ENGLISH 9 REGENTS</b>	1 Credit	Grade 9	* Local Exam
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*SUGGESTED PREREQUISITE:* English 8

This is a foundational course intended to give students the opportunity to grow and develop critical thinking skills through exposure to a variety of literary experiences involving plays, short stories, novels, poetry, and nonfiction passages. Students will focus on communicating ideas both orally and in written form, laying the groundwork for success in grades 10, 11, and 12.

<b>ENGLISH 9 HONORS</b>	1 Credit	Grade 9	* Local Exam
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*SUGGESTED PREREQUISITES:* Teacher recommendation

This course expands upon the English 9 curriculum to include additional reading and writing. Students will explore diverse and complex texts across a variety of genres to build the foundation for sophisticated academic study and accelerated coursework. While critically reading both classic and contemporary fiction, poetry, drama, and nonfiction, students will develop skills in grammar, vocabulary, critical thinking, personal expression, reading comprehension, analysis, research, and writing. Mature conceptual and analytical skills are a necessity, as is the ability to work more independently.

<b>ENGLISH 10 REGENTS</b>	1 Credit	Grade 10	* Local Exam
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*SUGGESTED PREREQUISITE:* English 9 Regents

This course builds upon and reinforces the English 9 curriculum while providing English 10 students with time to develop the skills needed for the ELA NYS Regents Exam. Students will be responsible for completing both brief and extended writing assignments, independent reading, vocabulary study, literary analysis, and reading comprehension practice to increase their knowledge and development throughout the school year. Students will also be required to complete a research project that challenges students to introduce and support a counterclaim argument.

<b>ENGLISH 10 HONORS</b>	1 Credit	Grade 10	* Local Exam
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*SUGGESTED PREREQUISITES:* English 9, Successful completion of summer enrichment, Teacher's recommendation

This course builds upon and reinforces the English 9 Honors course, as well as expanding its focus to include in-depth research, in-depth analysis and the writing of an advanced research paper. Mature conceptual and analytical skills are a necessity, as is the ability to work more independently.

<b>ENGLISH 11 REGENTS</b>	1 Credit	Grade 11	*ELA Exam
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*SUGGESTED PREREQUISITE:* English 10 Regents

This course will continue to develop many of the skills from English 10 Regents while providing juniors time to master the skills needed for the NYS Common Core Exam. The course will also provide students with an awareness of the American literary tradition.

<b>ENGLISH 11 HONORS</b>	1 Credit	Grade 11	*ELA Exam
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*SUGGESTED PREREQUISITE:* English 10 Honors, Successful completion of summer enrichment, Teacher's recommendation

This course builds upon and reinforces the English 10 Honors course, as well as providing students with an awareness of the American literary tradition. Students will continue in-depth research as well as prepare for the NYS ELA Regents Exam.

<b>ENGLISH 12</b>	1 Credit	Grade 12	*Local Exam
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*SUGGESTED PREREQUISITE:* English 11

This course will focus on a variety of literary genres (fiction and nonfiction) with an emphasis on the development of critical thinking, problem-solving skills, writing skills, and career/college readiness. Students will be required to research and analyze text and ideas from multiple disciplines in order to broaden their academic understandings. They will also be required to write in various writing situations aimed at increasing diversity in both writing process and writing product. The full-year course will culminate in a long-term senior project focused on remedying societal issues.

<b>MVCC ENGLISH 12 (EN 101)</b>	.5 Credit 3 College Credits	Grade 12	*Local Exam
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*SUGGESTED PREREQUISITES:* Successful completion of NYS ELA Regents Exam and English 11. *WEIGHTED*

This course focuses on several kinds of writing—self-expressive, informative, argumentative/persuasive, and others. A minimum of five essay assignments are required. The course emphasizes the composition of clear, correct, and effective prose required in a variety of professions and occupations. Students may earn 3 credit hours from MVCC.

<b>MVCC ENGLISH 12 (EN 102)</b>	.5 Credit 3 College Credits	Grade 12	*Local Exam
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*SUGGESTED PREREQUISITE:* Successful completion of EN101. *WEIGHTED*

This course focuses on literature and composition. We will study several genres of literature—fiction, nonfiction, poetry, drama, essay and visual texts. An analysis of these genres throughout this course will be helpful in understanding how to read, write, and think on a higher level and therefore prepare you for life, college and career. A minimum of six essay assignments are required. The course emphasizes the composition of clear, correct, and effective prose required in a variety of professions and occupations. Students may earn 3 credit hours from MVCC.

<b>AP ENGLISH: LITERATURE AND COMPOSITION</b>	1 Credit 6 College Credits	Grade 12	* AP Exam
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*SUGGESTED PREREQUISITES:* English 11, Teacher recommendation, Successful completion of summer coursework, MVCC dual enrollment credit possible (EN 101 and EN 102). *WEIGHTED*

This College-Board approved course places emphasis on reading and writing skills required for interpreting all genres of literature taught at the first year college level and is designed for those students who wish to earn up to six college credits. Students are expected to work both independently and collaboratively at a pace and level of rigor that is typical of the college classroom. Mature conceptual and analytical skills are a necessity. Students must complete the AP exam for the course.

<b>CREATIVE WRITING</b>	.5 Credit	Grade 9 – 12	* Local Exam
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This course is designed for students who have demonstrated an aptitude for and an interest in writing. Emphasis will be placed on the development of individual writing styles while studying the elements of a story, including, but not limited to characterization, mood, theme, and dialogue. Writing assignments will include short stories, personal essays, and poetry. Every effort will be made to provide students with publishing opportunities. Students are required to submit work for inclusion in the OHS literary magazine, *Alarm*.

<b>FILM AS LITERATURE</b>	.5 Credit	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* English 9

Students will acquire and develop an understanding of and a greater appreciation for the art of storytelling through film. Students will also place contemporary American and international cinema in its broader historical and cultural contexts. Throughout the course, students will enhance analysis skills to better understand film and filmmakers' intentions and techniques as well as examine basic literary elements as they pertain to celluloid literature. Writing assignments will accompany each film viewed. Films selected for the course will vary in rating: G, PG, PG-13, and R, so parent permission will be required.

<b>JOURNALISM</b>	.5 Credit	Grade 10- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* English 9

This elective allows students to gain hands-on experience in the fields of journalism and public relations. Students will work both collaboratively and independently to learn how to write for print and digital media and to craft ideas into stories. Stories will be published on Oneida's social media accounts, including Twitter, Facebook, and the Oneida City School District's website. Other publishing outlets include the high school's hallway monitors, the monthly newsletter, and the school's a.m. and p.m. announcements. Additional opportunities to write for the Oneida Daily Dispatch and to work with OCSD's public relations personnel are available.

<b>LIFE, THINKING, AND BEING A PERSON</b>	.5 Credit	Grade 10-12	* Local Exam
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This elective is a hybrid course, combining English, philosophy, and psychology with a heavy dose of critical thinking and self-reflection. Genres incorporated will include classic philosophy (Socratic dialogues), biographies, essays, and personal-growth/psychology texts. Students will read and write with a focus on analysis of ideas, evaluation of self, personal development, and growth. Writing assignments, class discussion, individual reflective practices, and presentations will be utilized for assessment. The ultimate goal of the course is to develop perspective, rationale, and focus in order to become more skilled/prepared students and positive contributing members of society.

<b>PUBLIC SPEAKING</b>	.5 Credit	Grade 9 - 12	* Local Exam
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This course is designed to develop basic speaking skills through frequent speaking activities. Students present a variety of different speeches, including impromptu, manuscript, informative, persuasive, demonstration, and memorized speeches. Every effort will be made to provide students with speaking opportunities. Students will also study professional speakers and learn about the biological and mental aspects of public speaking, including how to combat stage fright.

<b>SPORTS LITERATURE</b>	.5 Credit	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* English 9

Students will learn about the place and importance of the athlete in history, legend, and literature from ancient to modern times. The students will examine sports literature of various genres -- history, novel, essay, news story, biography, short story, film, and poetry. Assignments will include reading, writing, research, and oral presentations.

<b>YEARBOOK</b>	1 Credit	Grades 11-12	
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*SUGGESTED PREREQUISITE:* Permission of instructors

This project-based course is designed to produce the high school yearbook, utilizing specific graphic design and layout software programs. Students will focus on layout, photography, marketing, advertising, editing and revising, and interviewing.

## FOREIGN LANGUAGE

<b>SPANISH 1</b>	1 Credit	Grade 9 – 12	* Local Exam
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Students are introduced to the four skills of language learning: understanding, speaking, reading and writing with emphasis on the first two skills. Students will also study many of the different aspects of the Hispanic world and begin to understand the cultural differences found in our global society. This course is designed for students who were not successful in the middle school or for a student who has moved into New York State without having had a foreign language and must meet the graduation requirements of the state. If a student plans to continue language study after 9<sup>th</sup> grade Spanish I, local school policy requires that the student pass both the course and the Proficiency Exam.



<b>SPANISH 2</b>	1 Credit	Grade 9 - 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Spanish 1

This is a continuation of Spanish 1 with emphasis placed on all four skills. Students are introduced to several verb tenses and many more irregular verbs. At the end of Spanish 2, students will be able to express themselves verbally, and in writing, using the present and past tenses. Students will also be introduced to simple grammatical structures. The pace is faster than Spanish 1.

<b>SPANISH 3</b>	1 Credit	Grade 10 - 12	*Regents Equivalency
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*SUGGESTED PREREQUISITE:* Spanish 2

This course offers an expansion of verbs and vocabulary. A greater emphasis is placed on writing and speaking. Students are introduced to more complex grammatical structures. At the conclusion of this course, students will take a Regents Equivalency Exam, testing all four major skills. After receiving credit for this class and passing the Regents Equivalency Exam, the student has met the language requirement for an Advanced Regents Diploma. Please be aware when making the decision about continuing foreign language study that many colleges - private and public - now have foreign language requirements. Check with the individual college or your school counselor for more information.

<b>SPANISH 4</b>	1 Credit	Grade 11 - 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Spanish 3

The emphasis is on expanding the four skills. Students are expected to do projects and Internet research in Spanish. Many more complex grammatical structures are learned and it is hoped that students will master the formation and sequence of all of the verb tenses.

<b>SPANISH/MVCC REVIEW SPANISH 1 &amp; 2 (SP 191 &amp; SP 192)</b>	1 Credit 6 College Credits	Grade 12	*Local Exam
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*SUGGESTED PREREQUISITE:* Spanish 4 AND teacher recommendation.

This class is equivalent to two first year college level courses. It is important that the student in this class be willing to spend time outside of class improving his/her language skills. It is also hoped that the student in this class be truly interested in learning Spanish. This class continues the development of grammar, cultural understanding, reading, writing, and conversation skills, and is presented at an accelerated pace. Students enrolled in this class are eligible to earn 6 credit hours from Mohawk Valley Community College. MVCC will be granting the credit by transcript. *WEIGHTED*

<b>FRENCH 1</b>	1 Credit	Grade 9 - 12	* Local Exam
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Students are introduced to the four skills of language learning: understanding, speaking, reading and writing with emphasis on the first two skills. Students will also study French culture and begin to develop a respect for the cultural differences found in today's global society. This course is designed for the student who was not successful in the Middle School or for a student who has moved into New York State without having had a foreign language and who must meet the graduation requirements of the state. If a student plans to continue language study after 9<sup>th</sup> grade French 1, local school policy requires that the student pass both the course and the Proficiency Exam.

<b>FRENCH 2</b>	1 Credit	Grade 9 - 12	* Local Exam
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*SUGGESTED PREREQUISITE:* French 1

This is a continuation of French 1 with emphasis placed on the four skills. Students are introduced to many more irregular French verbs, the past tense and other simple grammatical structures. The pace of the course is faster and more demanding than French 1. A study of French culture is included and students will be required to do a research project on Paris.

<b>FRENCH 3</b>	1 Credit	Grade 10-12	* <i>Equivalency Exam</i>
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**SUGGESTED PREREQUISITE:** French 2

This course offers an expansion of verbs and vocabulary. A greater emphasis is placed on writing and speaking. Students are introduced to more complex grammatical structures. Students will do various projects including a research project on the regions of France. At the conclusion of this course, students will take a Regents Equivalency Exam, testing all four major skills. After receiving credit for this class and passing the Regents Equivalency Exam, the student has met the language requirement for the Advanced Regents Diploma. Please be aware when making the decision about continuing foreign language study that many colleges - private and public - now have foreign language requirements. Check with the individual college or your school counselor for more information.

<b>FRENCH 4/MVCC</b>	1 Credit	Grade 11- 12	* Local Exam
<b>Review French</b> (Fr 191 & 192)	6 College Credits		

**SUGGESTED PREREQUISITE:** French 3

The emphasis is on expanding the four skills. Students are expected to do projects and Internet research in French. Many more complex grammatical structures are learned and it is hoped that students will master the formation and sequence of all of the verb tenses. Native materials are primarily used. **WEIGHTED**

## HEALTH & PHYSICAL EDUCATION

<b>HEALTH</b>	.5 Credit	Grade 10-12	*Local Exam
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*(Required for Graduation)*

A factual, behavioral and value clarifying course which actively involves students in self-awareness, decision making skills, role playing and research of health and interpersonal matters.

<b>PARENTING</b>	.5 Credit	Grade 10-12	*Local Exam
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This course deals with the choices individuals have deciding whether or not to become parents, when, with whom, and under what economic, social, education and physical conditions. The processes taught in this course will aid in formation of enlightened decisions.

<b>PHYSICAL EDUCATION</b>	.5 Credit	Grade 9 -12	* Local Exam
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*(Required for Graduation)*

Physical Education classes are designed to practice and develop skills in activities that will help students maintain fitness throughout their life. We will explore fitness activities designed to improve all areas of fitness. Throughout the school year students will improve their fitness level, through regular cardiovascular endurance training, muscular endurance training, and activities designed to increase current levels of fitness. Students will be introduced to lifelong activities and will understand the benefits that regular exercise can provide for a person's mental, physical, and social health.

<b>STRESS MANAGEMENT, WELLNESS AND NUTRITION</b>	.5 Credit	Grades 11-12	
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This course is a semester-long course designed for students to gain foundational knowledge pertaining to maintaining optimal health throughout their lifetime. The course is designed to develop and enhance lifetime wellness and focuses on the latest trends in health, nutrition, physical activity, and wellness. From stress management and sleep to overall wellbeing, we will explore personal health, health related attitudes and beliefs, and individual health behaviors.

Topics include:

- Assessment of one's personal health
- Dietary choices for lifelong health
- Setting health goals
- Achieving and maintaining a healthy weight
- Assessing health information
- Identifying stress and its effect on physical and emotional health
- Implement ways to cope with stress
- Sleep hygiene
- Mindfulness and meditation techniques
- Explore ways to create emotional health and well-being.
- Pilates
- Stretching
- Self-care

<b>INTRODUCTION TO PERSONAL TRAINING</b>	1 Credit	Grade 9-10
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*Suggested Prerequisites:* Anatomy, health/nutrition, fitness/weight room experience from PE.

This course has two goals. 1- to provide an in-depth experience relating to fitness and exercise for students who are passionate about the field. They can use the knowledge learned in class to keep themselves healthy and fit for a lifetime. 2- to provide enough knowledge and assistance for students who would like to become certified in personal training. Training can be a great job for students after they graduate HS, whether they have plans to attend college, or enter the work force. Preparation for the personal training certification exam will be a part of this course.

Topics discussed: Muscles in the body, different types of lifts/exercises and their proper form, injury prevention/maintenance, creating goals & developing a plan toward achieving them, and effects of nutrition on the body. The course will be quite in-depth. It will be part classroom learning and part exercising in the weight room.

<b>FOUNDATIONS OF COACHING</b>	.5 Credits	Grade 11-12
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Course Description: This course has two goals.

1. To provide an in-depth experience relating to coaching youth sports. Including appropriate practice plans and guide to running a successful season. Including gaining the knowledge to improve athletic performance as well as self-esteem.
2. To provide an opportunity to work with local youth programs in the Oneida area – including the Oneida Recreation Center programs. Preparation for the opportunity to coach beyond high School and/or a major in college in this field.

Topics discussed: The course will use textbooks: What Drives Winning by Brett Ledbetter, and exerts from books Above the Line by Urban Meyer, and The Only Way to Win by Jim Loehr. These books teach character skills associated with life and sports.

## MATHEMATICS

<b>FOUNDATIONS IN ALGEBRA</b>	1 Credit	Grade 9-10	* Local Exam
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This course reinforces a student's foundation in numeration, geometry, measurement, probability and statistics in preparation for a first course in algebra. Students would enroll in Integrated Algebra the following year to continue preparation for the Algebra Regents exam. \* Does NOT meet NCAA requirements as a math credit.

<b>ALGEBRA 1 CC</b>	1 Credit	Grade 9-10	* Regents Exam
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*SUGGESTED PREREQUISITE:* Successful completion of Math 8

Algebra 1 CC is the first mathematics course in high school. This course takes a developmental approach to expressions, equations, inequalities, patterns, relations, functions, coordinate geometry and trigonometric functions carefully building and connecting each concept and skill by using appropriate language and mathematical symbolism. Students will take the New York State "Algebra 1 CC" Regents exam at the end of this course.

<b>GEOMETRY</b>	1 Credit	Grade 10-12	* Regents Exam
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*SUGGESTED PREREQUISITE:* Algebra 1 CC

Geometry is intended to be the second course in mathematics for high school students. 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. Students will take the New York State "Geometry" Regents exam at the end of this course.

<b>ACCELERATED GEOMETRY</b>	1 Credit	Grade 9	* Regents Exam
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*SUGGESTED PREREQUISITE:* Completion of 8<sup>th</sup> grade Algebra.  
Same description as Geometry listed above.

<b>INTERMEDIATE ALGEBRA 2</b>	1 Credits	Grade 11- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Geometry

Intermediate Algebra 2 is the first course (one year) of a 2 year sequence of courses to complete Algebra 2 CC.

<b>INTERMEDIATE ALGEBRA 2B</b> MVCC (MA 125)	1 Credit 3 College Credits	Grade 11- 12	* Regents Exam
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*SUGGESTED PREREQUISITE:* Successful completion of Geometry  
Intermediate Algebra 2 is the second course of a 2 year sequence of courses to complete Algebra 2 CC. Students will take the New York State “Algebra 2 CC” Regents exam in January and June. *WEIGHTED*

<b>ALGEBRA 2 CC Accel</b> MVCC (MA 125)	1 Credit 3 College Credits	Grade 10	* Regents Exam
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*SUGGESTED PREREQUISITE:* Accelerated Geometry & Algebra  
This course is the capstone of the three credits required for a Regents diploma. The families of functions to be studied will include polynomial, absolute value, radical, trigonometric, exponential and logarithmic functions. Within this course, the number system will be extended to include imaginary and complex numbers. Students will take the New York State “Algebra 2 CC” Regents exam at the end of this course. *WEIGHTED*

<b>ALGEBRA 2 CC</b> MVCC (MA 125)	1 Credit 3 College Credits	Grade 11- 12	* Regents Exam
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*SUGGESTED PREREQUISITE:* Geometry & Algebra  
Same description as “Algebra 2 CC” Accelerated listed above. *WEIGHTED*

<b>Math 12</b>	1 Credit	Grade 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Algebra 2 CC  
The course is for the college bound student who realizes the need for a solid mathematical base where his or her intended degree does not include calculus. While increasing the understanding of mathematical concepts, this senior course will stress the importance of writing and speaking within the curriculum.

<b>PRE-CALCULUS</b> MVCC (MA 150)	1 Credit 3 College Credits	Grade 11- 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Algebra 2 CC  
This course helps students to understand the role of logic in deductive systems, and to recognize the manipulative techniques and the mathematical structure of that system. It will also develop an appreciation of the breadth and depth of applications of mathematics and prepare students for modern courses in calculus, abstract, algebra and probability. *WEIGHTED*

<b>AP STATISTICS</b> MVCC (MA 110)	1 Credit 3 College Credits	Grade 12	* AP Exam
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*SUGGESTED PREREQUISITE:* Algebra 2 CC along with recommendation of instructor. *WEIGHTED*  
A very useful course emphasizing how to summarize, analyze and draw conclusions from given data. Probability, normal distribution, analysis of measurements and more are also included.

<b>AP CALCULUS</b> MVCC (MA 110)	1 Credit 3 College Credits	Grade 12	* AP Exam
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*SUGGESTED PREREQUISITE:* Pre-Calculus, MVCC dual enrollment credit possible. *WEIGHTED*  
This course is a thorough study of elementary functions, derivatives, methods of integration and applications. The course is equivalent to a semester college course in Calculus, and the student may earn credit, placement or both.

<b>BASIC COMPUTER PROGRAMMING</b>	.5 Credit	Grade 9-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Algebra 1 CC

This course familiarizes students with computer systems and their use. Students will be introduced to problem solving logic through flowcharting and tracing and will be able to write programs involving simple graphics and sound in addition to regular programming techniques.

<b>ADVANCED COMPUTER PROGRAMMING</b>	.5 Credit	Grade 9-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Basic Programming

This course strengthens students' knowledge of advanced programming techniques in BASIC and also gives them an exposure to the JAVA programming language.

<b>AP COMPUTER SCIENCE</b>	1 Credit	Grade 12	* AP Exam
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*SUGGESTED PREREQUISITE:* Algebra 2 AND Basic and Advanced Programming. *WEIGHTED*

The goals of an Advanced Placement Computer Science course are comparable to those of a first semester course offered in college and university computer science departments. The course is intended to serve both as an introductory course for people who will major in computer science or in other disciplines that require significant involvement with computing. Math is subject to change by the State Education Department.

## MUSIC

\*Knowledge: Music Appreciation; Music Theory 1, 2. \*Performance: Wind Ensemble, Mixed Chorus, Concert Choir.

### 3 Credit Sequence

- 1- Knowledge Unit PLUS
- 2- 2- Knowledge or Performance Units (at least one must be performance).

### 5 Credit Sequence

- 2 - Knowledge Units PLUS
- 3 - Performance Units

<b>MUSIC THEORY</b>	1 Credit	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* That a student have some musical knowledge and/or participate in an ensemble.

Music Theory is a full year course designed to enhance music skills and basic music fundamentals. The essential aspects of melody, harmony, rhythm, and form are studied. Throughout the course of the year students will study basic notation, scales, key signatures, intervals, triads, cadences, non-chord tones, form, part-writing and analysis of a score. Aural dictation and ear training are also an integral part of the course and will be taught throughout the year. Individual creativity is nurtured through both rhythmic and melodic composition. This course is highly recommended for students in a musical ensemble, and is *strongly suggested* for students interested in pursuing a music degree in college.

<b>MUSIC APPRECIATION THROUGH TECHNOLOGY 1</b>	.5 Credit	Grade 9 - 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Basic computer knowledge is necessary. Basic music-reading ability, experience on a musical instrument or in a performing ensemble is helpful. **CLASS ENROLLMENT IS LIMITED.** This course is designed to meet the New York State Regents Requirement for .5 unit of art/music credit for those students who do not participate in a major performing ensemble, although it is not limited to non-ensemble members. Topics include an introduction to the elements of music, current events in music, and covers the history of music through the Classical period. Grades are based on the creation of student projects using a variety of MAC programs, as well as presentations.

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**MUSIC APPRECIATION  
THROUGH TECHNOLOGY 2**

.5 Credit

Grade 9 - 12

\* Local Exam

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**SUGGESTED PREREQUISITE:** Successful completion of MATT 1. CLASS ENROLLMENT IS LIMITED

This course is a continuation of MATT 1 and should be taken in sequence. Topics cover music history from the Romantic Era through Current Trends in Music. Grades are based on more advanced student projects created with a wide variety of MAC programs.

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**WIND ENSEMBLE**

1 Credit

Grades 11-12

\* Local Exam

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Wind Ensemble is a group of 9th - 12th grade band students. This group plays for concerts and community events throughout the school year. Each student is required to take one lesson per week. Grades are based on attendance and participation in lessons and concerts along with daily rehearsals. *CONCERT ATTENDANCE IS REQUIRED TO RECEIVE CREDIT FOR THIS COURSE. IT IS A PERFORMANCE BASED CLASS. STUDENTS WILL BE IN TUXEDOS AND FORMAL WEAR FOR ALL PERFORMANCES.*

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**MIXED CHORUS**

1 Credit

Grade 9-12

\* Local Exam

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This is a non-auditioned ensemble which meets daily. It is designed to encourage all students who have an interest in developing their skills in group singing. It will help develop the student's knowledge of choral literature, music theory concepts, sight singing, and to enrich their love of music. Repertoire is selected to provide sequential, systematic concepts and performance skills associated with varying musical content and style. All 9<sup>th</sup> grade students will be placed in this ensemble. *CONCERT PARTICIPATION IS REQUIRED AND EVENING PERFORMANCES ARE MANDATORY IN ORDER TO RECEIVE CREDIT FOR THIS COURSE.*

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**CONCERT CHOIR**

1 Credit

Grade 10-12

\* Local Exam

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Audition required.

This is an auditioned ensemble made up of students in grades 10-12 which meets daily and offers students a variety of enriched musical opportunities. Students will enhance their knowledge of choral literature, music theory concepts, and will achieve a higher degree of perfection in the performance and understanding of the choral repertoire. Repertoire is selected to provide sequential, systematic concepts and performance skills associated with varying musical content and style.

**\*Formal attire is a requirement of this group.** *CONCERT PARTICIPATION IS REQUIRED AND EVENING PERFORMANCES ARE MANDATORY IN ORDER TO RECEIVE CREDIT FOR THIS COURSE.*

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**JAZZ IMPROVISATION LAB**

1 Credit

Grades 10-12

\*Local Exam

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Suggested Prerequisites: Must have been a member of the Wind Ensemble or teacher approval. Must have an instrument to play.

This course develops understanding of the jazz idiom.

It focuses on the basic concepts of improvisation, listening to a variety of jazz styles, performing jazz standards, watching live or pre-recorded performances.

## SCIENCE

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**EARTH SCIENCE R**

1 Credit

Grade 10-12

\* Regents Exam

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**SUGGESTED PREREQUISITE:** Regents Living Environment.

Earth Science encompasses four main areas of study: Geology – the study of earth and its changes over time.

Meteorology – a study of the earth atmosphere and the exchange of energy that control our weather and climate.

Oceanography – a study of the oceans and their influence on earth. Astronomy – a study of the earth's motion and position in our solar system and space. For each area of study, students will learn the forces that drive changes and the energy exchanges that result. This class requires students to use skills of critical thinking. The course is a state syllabus program and as a summative assessment, the student will take the NYS Regents in Physical Setting Earth Science in June.

<b>ENVIRONMENTAL SCIENCE</b>	.5 Credit	Grade 11-12	* Local Exam
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**SUGGESTED PREREQUISITE:** Completion of two Regents science courses.

This course is for students needing the requirement for a 3<sup>rd</sup> year of science and must take another science elective to meet science requirements. This course will cover topics related to the principles of ecology. Students will study the earth and how it has changed over time. They will take a look at the interactions between the abiotic factors and the biotic factors within the environment. The various biomes found on earth will also be explored. **Topics to be covered:** Methods of Science, The Planet Earth, Change in the Biosphere, Matter & Energy in the Ecosystem, Interactions in the Ecosystem, Ecosystem Balance, Desert and Tundra Biomes, Grassland Biomes, Forest Biomes, Freshwater Biomes, Marine Biomes and Alternate Forms of Technology.

<b>LIVING ENVIRONMENT</b>	1 Credit	Grade 9 -12	* Regents Exam
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**SUGGESTED PREREQUISITE:** Present enrollment in at least Algebra 1 CC

The course provides a broad general understanding of the fundamental principles of Biology. Major emphasis is placed on maintenance of homeostasis, biochemistry, reproduction and development, genetics, evolution, ecology and human impact on the environment. Laboratory exercises reinforce course topics and are a requirement. Students take the Living Environment Regents Examination.

<b>SCIENCE &amp; OUR FOOD SUPPLY</b>	.5 Credit	Grade 11- 12	* Local Exam
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**SUGGESTED PREREQUISITE:** Completion of two Regents science courses.

Science and Our Food Supply focuses on several topics related to science and food, including foodborne illnesses, food preservation, genetically modified food and factory farming. The course includes several lab activities among which a bacterial safari throughout the high school, an antibacterial lab using household cleaners as well as spices, a milk lab designated to check the relationship between pasteurization and bacterial growth and finally a project involving the selective breeding of Wisconsin Fast Plants. \* *Completion of Science and Our Food Supply and either Anatomy and Physiology or Environmental Science provides one additional science credit for those student needing a third science course.*

<b>SURVEY OF HUMAN ANATOMY AND PHYSIOLOGY</b>	.5 Credit	Grades 11 -12	* Local Exam
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**SUGGESTED PREREQUISITE:** Completion of 2 Regents Science courses

This course will cover the basics of the human body and how it works. Students will study the organs of the body to understand their structure, location in the body, their function and how they interact with other parts of the body. Students will study each of the human body systems anatomy, as well as how each system works at the cellular and system level in a healthy as well as in a diseased state.

**Topics to be covered:** Introduction to Anatomy and Physiology, Cells and Tissues, Integumentary System, Skeletal System, Muscular System, Cardiovascular System, Respiratory System, Digestive System, urinary System, Nervous System, Endocrine System, Immune System and Reproductive System.

<b>CHEMISTRY R</b>	1 Credit	Grade 11- 12	* Regents Exam
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**SUGGESTED PREREQUISITE:** Algebra 1 CC and Geometry.

Chemistry Regents is designed to give you an in-depth view of chemistry and prepare you for college- level chemistry courses in the future. The course consists of both a class and a laboratory section that nicely complement each other in terms of content exploration. Topics that will be investigated include atomic structure, the periodic table, chemical bonding, stoichiometry, physical behavior of matter, kinetics, equilibrium, acids and bases, redox and electrochemistry, organic chemistry and nuclear chemistry. In order to be admitted to this course, students must have successfully completed Living Environment.

<b>PHYSICS R</b>	1 Credit	Grade 10-12	*Regents Exam
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*SUGGESTED PREREQUISITE:* Algebra 1 CC, Geometry and enrollment in Algebra 2 CC.

The science deals with those phenomena of inanimate matters involving no changes in chemical composition; specifically the science of matter and motion. Physics includes mechanics, heat, electricity, light, sound, radiation and atomic structure.

<b>AP BIOLOGY</b>	1 Credit	Grade 11-12	* AP Exam
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*SUGGESTED PREREQUISITE:* Regents Earth, Biology, Chemistry, and Algebra 1 CC, Geometry and Algebra 2 CC OR currently enrolled in Chemistry and Algebra 2 CC. *WEIGHTED*

Advanced Placement Biology is a college-level course, which is structured around four big ideas: Big Idea 1 – Evolution, Big Idea 2 – Cellular Processes: Energy and Communication, Big Idea 3 – Genetics and Information Transfer, and Big Idea 4 – Interactions. The four big ideas, as well as their interconnectedness, are explored through nine investigative labs (roughly two per Big Idea) that will enable students to deepen their conceptual understanding within a teacher-facilitated, yet student-directed learning environment. The lab component encompasses at least 25 percent of the AP Biology course.

<b>AP CHEMISTRY</b>	1 Credit	Grade 12	* AP Exam
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*SUGGESTED PREREQUISITE:* Regents Earth, Biology & Chemistry. *WEIGHTED*

The Advanced Placement Chemistry course is designed to be the equivalent of a general chemistry course usually taken during the first year of college. Students in this course will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. After showing themselves to be qualified in the Advanced Placement Examination, some students, as college freshmen, are permitted to undertake upper level courses in chemistry or register for other courses for which chemistry is a suggested prerequisite.

<b>FORENSICS</b>	.5 Credit	Grades 11-12	* Local Exam
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Forensics Science is the systematic use of scientific principles in Biology, Chemistry, and Physics to analyze crime scene material and data. This data is then matched to the suspected crime scene and and/suspect. This course will develop the critical thinking skills required by forensics scientists in the laboratory. Learning will take place through the study of text as well as hands-on laboratory experiences.

<b>THE NATURE OF PLANTS</b>	1 Credit	Grades 10-12	*Local Exam
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The course will focus on a variety of topics related to plants in an effort to instill curiosity to learn more about plants and their interactions with the environment around us. The goal of this course will be to provide an interactive learning experience in the greenhouse with an investigative approach.

Topics will include

- Structure and function of plants
- Growing plants and investigating growth
- Reproduction and propagation
- Photosynthesis
- Plant inheritance
- Classification of plants
- Pests of plants and the use of pesticides
- Climate change and plants
- Biotechnology and public debate on genetically modified plants
- Therapeutic plants
- Local farm or nursery tour,
- Landscape maintenance guest speaker
- Arborist guest speaker
- Florist guest speaker



## RTI/ CREDIT RECOVERY

<b>RESPONSE TO INTERVENTION</b>	0 Credit	Grade 10-12	* None
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Response to intervention provides extra help and preparation for students who have been identified as needing assistance in passing state assessments for graduation as well as credit recovery. Four labs in each of the four core subject areas will be available.

<b>CREDIT RECOVERY</b>	Grades 9-12	*Local or Regents Exam
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Each course required for graduation is planned to have a recovery course. If you did not successfully pass a required course, please select the recovery course in the selection sheet.

## SOCIAL STUDIES

<b>GLOBAL HISTORY 9</b>	1 Credit	Grade 9- 10	*Local Exam
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This course begins a two-year course in global history and geography. The course is taught chronologically and covers all areas of the world including Europe, Asia, the Americas, Africa and Australia. Topics in the course include units on the Ancient World 400BC-500 AD, Expanding Zones of Exchange 500-1200, Global Interactions 1200-1650, The First Global Age 1450-1770 and the Age of Revolutions 1750-1815.

<b>GLOBAL HISTORY 9 HONORS</b>	1 Credit	Grade 9	*Local Exam
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*SUGGESTED PREREQUISITE:* Teacher recommendation

The Global History 9 Honors course focuses on developing students' understanding of world history from approximately 8000 B.C.E. to c. 1750 C.E. The course has students investigate the content of world history for significant events, individuals, developments and processes in three historical periods and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning and argumentation) employed by historians when they study the past.

<b>GLOBAL HISTORY 10</b>	1 Credit	Grade 10	* Regents Exam
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*SUGGESTED PREREQUISITE:* Grade 9

This program is the second part of a two-year global history course utilizing a chronological approach that emphasizes particular aspects of several historical eras. The 10th grade portion of the course will contain units on: The Age of Revolution, Crisis and Achievement, the 20th Century since 1945 and Global Connections and Interactions. The time frame for this course will include the 19th and 20th centuries. Throughout the course, "bridging units" will be presented that will give students a historical perspective of the world at large.

<b>AP WORLD HISTORY</b>	1 Credit	Grade 10-12	* AP Exam & Regents
MVCC (HI 104)	6 College Credits		

*SUGGESTED PREREQUISITE:* Regents Social Studies AND teacher recommendation. *WEIGHTED*

**MVCC HI 104 after successfully completing the course and AP Exam**

The AP World History course focuses on developing students' understanding of world history from approximately 1750 C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments and processes in three historical periods and develop and use the same thinking skills and method (analyzing primary and secondary sources, making historical comparisons, chronological reasoning and argumentation) employed by historians when they study the past. The qualifications for acceptance into the AP World history is any student who has successfully completed Global History 9 Honors in their 9<sup>th</sup> grade year as well as successful completion of the summer assignment handed out in June of their 9<sup>th</sup> grade year.

<b>UNITED STATES HISTORY AND GOVERNMENT 11</b>	1 Credit	Grade 11	* Local Exam
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*SUGGESTED PREREQUISITE:* Global History 10 Regents

The program for grade eleven is a chronologically organized course in United States History. The emphasis in this course is on the United States as an industrial nation. Constitutional and legal issues are developed as well as issues of international involvement. The Regents level course will explore course material in more depth than the local level. A state Regents exam will be given to ALL students upon completion of the course.

<b>AP AMERICAN HISTORY MVCC (HI 111 &amp; HI 112)</b>	1 Credit 6 College Credits	Grade 11	* AP Exam & Regents
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*SUGGESTED PREREQUISITE:* Regents Social Studies 9 & 10 AND teacher recommendation. **WEIGHTED MVCC HI 111 and MVCC HI 112 – 6 college credits after successfully completing course and AP Exam**

This course gives the above average student the opportunity to gain college credit while still in high school through the Advanced Placement Program. The course consists of a chronological study of American History from the colonial period through the Year 2000. A state Regents exam will be given to ALL students upon completion of the course.

<b>ECONOMICS</b>	.5 Credit	Grade 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Social Studies 11

This course includes the basic economic concepts and understandings which all people need to function effectively and intelligently as consumers in a global economy. This course is required for graduation.

<b>GOVERNMENT</b>	.5 Credit	Grade 12	*Local Exam
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*SUGGESTED PREREQUISITE:* Social Studies 11

This course emphasizes the interaction between citizens and government at all levels. The course will focus on topics that relate to public policy issues at the local, state and national levels. This course is required for graduation.

<b>MVCC SURVEY OF ECONOMICS (BM 101)</b>	.5 Credit 3 College Credits	Grade 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Social Studies 11 Regents grade 80 +

This course includes the basic economic concepts and understandings which all people need to function effectively and intelligently as citizens in a global economy. The course will focus on how people produce, distribute and consume the goods and services they want. This course is required for graduation. Students enrolled in this class are eligible to earn 3 credit hours from Mohawk Valley Community College. MVCC will be granting the credit by transcript. **WEIGHTED**

<b>MVCC AMERICAN NATIONAL GOVERNMENT (PS 101)</b>	.5 Credit 3 College Credits	Grade 12	* Local Exam
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*SUGGESTED PREREQUISITE:* Social Studies 11 Regents grade 80+

This course emphasizes the interaction between citizens and government at all levels. The course will focus on topics that relate to public policy issues at the local, state and national levels. Material will be covered in more depth than at the local level. This course required for graduation. Students enrolled in this class are eligible to earn 3 credit hours from Mohawk Valley Community College. MVCC will be granting the credit by transcript. **WEIGHTED**

<b>SOCIOLOGY</b>	.5 Credit	Grade 11-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Completion of Social Studies 9, 10 & 11

The course is an introduction to the study of sociology. This includes the study of human interact, social organization and the nature of social problems. Students are provided the opportunity to prepare for college level elective or major when they move on to college after graduation.

<b>PSYCHOLOGY</b>	.5 Credit	Grade 11-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Completion of Social Studies 9, 10 & 11

This is an introductory course in psychology. The course deals with the history and foundation of psychology as a behavioral science, theories of personality development, diagnosis and treatment of mental illness, psychological research, and social psychology. Students are provided the opportunity to prepare for a college level elective or major when they move on to college after graduation. Student enrolled in this class are eligible to earn 3 credit hours from Mohawk Valley Community College. MVCC will be granting the credit by transcript.

<b>SPORTS PSYCHOLOGY</b>	.5 Credit	Grade: 11-12	*Local Exam
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*SUGGESTED PREREQUISITE:* Completion of Social Studies 9, 10 & 11

This course will provide students with knowledge about psychological factors that affect performance in sports such as motivation, concentration, focus, confidence, anxiety and relaxation. Students will also be introduced to mental skills that will enhance performance, make athletic participation more enjoyable, and learn skills that can be transferred to other aspects of their lives. Specific skills to be covered in this class will include: how to set measurable goals and strategies to achieve them, visualization and imagery techniques, leadership, team-building, and how to best cope and recover from injuries.

<b>MVCC THE UNITED STATES AND VIETNAM (HI 113)</b>	.5 Credit 3 college credits	Grade 10-12	*Local Exam
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This survey course traces the American involvement in Vietnam from the end of World War II through the defeat of the Republic of South Vietnam. It develops an understanding of the events, conditions, and policies that moved the United States from a position of little involvement and interest in 1945 to a national commitment to the survival of an independent South Vietnam. *WEIGHTED*

<b>MVCC NEW YORK STATE HISTORY (HI 214)</b>	.5 Credit 3 college credits	Grade 10-12	*Local Exam
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This course provides a survey of significant political, social, economic trends, and institutions in New York State from early settlement to the present. It gives a geographical and historical understanding of the State as well as how New York became the Empire State, molding its own unique identity while playing a major role in shaping and influencing the nation and the world. Attention to the changing pattern of land holding, the development of a democratic commonwealth, urbanism, immigration, industrialism, political feuds, and political factions are addressed along with local history. *WEIGHTED*

<b>BE AN 11 CITIZENSHIP CLASS</b>	.5 Credits	Grade 10-12	
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This course emphasizes the importance of civic competency, by teaching students how to embody the necessary characteristics of a good citizen. Students of this course are tasked with becoming citizens who could be rated as “an 11” on a scale from 1 to 10. Be an 11 Citizenship Class emphasizes traits such as character, compassion, and leadership that will help students become productive citizens in their communities.

# TECHNOLOGY

<b>MULTIMEDIA APPLICATIONS</b>	.5 Credit	Grade 9- 10	* Local Exam
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Multimedia Applications is a half credit course designed to develop a high level of computer proficiency utilizing a variety of multimedia software applications for various tasks. If you want to learn how to make awesome presentations, graphics, movies, and sounds this is a class to take. Students will learn about image manipulation, audio and video productions, and basic design concepts. They will integrate these skills into creating attractive and compelling multimedia and print projects. This course is recommended for any student, regardless of career objective, desiring a practical hands-on computer course. Students should already have basic computer knowledge. They should be comfortable using and navigating a computer and applications, be able to use and save items to their server, and understand basic computer and internet terminology.

<b>PRODUCTION SYSTEMS</b>	.5 Credit	Grade 9-12	*Local Exam
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This systems course will be divided into two areas. The first, manufacturing, will introduce the students to a variety of methods used to produce an item in a factory. The students will work together to manufacture a product. The second area, construction, will cover the building of a structure on site. Materials involved the process of building and career opportunities in this field will be explored in both of these areas.

<b>TRANSPORTATION SYSTEMS</b>	.5 Credit	Grade 9-12	* Local Exam
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This systems course will explore the wide variety of forms of transportation and power use today. Forms of transportation will include land transportation (cars, motorcycles, bicycles, trains), marine transportation (sailboats, motorboats, submarines, surfboards), and aerospace transportation (airplanes, hang gliders, rockets, space shuttles). Forms of power will include manpower, wind power, internal combustion and nuclear power. Career opportunities in this field will be discussed.

<b>MATERIAL PROCESSING</b>	.5 Credit	Grade 9-12	* Local Exam
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In this foundation course, students will build projects using wood, metal, ceramics and plastics in order to learn about the tools and equipment used to form, cut and assemble each of these materials (the focus is on plastics and wood. Students will explore how a raw material is transformed into a consumer product.

<b>GRAPHIC COMMUNICATIONS</b>	.5 Credit	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Multimedia Applications; can be used to fulfill Fine Arts requirement. Students enrolled in Graphic Design will use hands on design projects to study the principles design. The majority of the class work is done on the computer utilizing professional programs such as Adobe Photoshop, Illustrator, and InDesign. Students will produce graphics designed for the web and printed graphics, and will complete a digital portfolio of their work.

<b>MVCC Photography (PT 101)</b>	.5 Credit 3 College Credits	Grade 10-12	* Local Exam
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This course provides an understanding of principles as applied to all phases of photography. It covers instruction in photo optics, camera equipment, film and paper emulsion, photographic chemicals, filters and lens attachments, lighting, composition, and exposure control. *WEIGHTED*

<b>PHOTOGRAPHY – POST PROCESSING (Spring)</b>	.5 Credit	Grades 10- 12	* Local Exam
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The Photo-Post Processing course deals with skills used to make the most out of photos after they are captured. This class will cover techniques to manipulate images using 35mm film in the dark room and also work with digital images with software like Adobe Photoshop.

This class is for any student wanting to:

- Know how to create photos that are best for manipulating later
- Know how to make quality Black & White prints from 35mm film
- Create special effects in their photos
- Learn how to set up studio lighting
- Process photos in Photoshop to get the look they're after

\*\*Students will be required to supply their own Digital/Film cameras and Memory card for both classes

<b>RESIDENTIAL STRUCTURES</b>	.5 Credit	Grade 9-12	* Local Exam
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Through the process of actually building a structure, the students will learn how a wood frame house is built today. Areas to be covered include: foundations, framing (floors, walls, and roofs), and enclosing methods (floorboards, plasterboard, siding, etc.), and installation of utilities (electrical, heating and plumbing). The students will also learn basic maintenance skills which could save the homeowner money.

<b>CARPENTRY 1</b>	2 Credits	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* Residential Structures required; meets 2 periods a day all year.

Students will learn all phases of carpentry as it relates to the construction field - everything from site layout to trimming out the structure. Specific areas to be covered will be:

- Preparing to build
- Footings, foundations and framing
- Closing in
- Finishing construction techniques
- Other Considerations
- This is the first year of the BOCES Carpentry Program

*Accredited by the National Center for Construction Education & Research sponsored by Construction Training Center of NY State.*

<b>MVCC Drone Systems (UA 120)</b>	1 Credit 3 College Credits	Grade: 11-12	*Local Exam
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In this course, students will explore the history and use of unmanned aviation vehicles. The emphasis will be placed on drone vehicles and systems. Students will learn theories of flight, avionics, mission planning, aerial photography and the legal issues of drone flight. This hands' on course will provide opportunities for students to learn how to maintain and repair drones along with flight skills in computer simulation and with drone vehicles. The class will compete in a spring drone flying competition. Students will be prepared to take the FAA exam for becoming a certified drone pilot, which is required for commercial piloting. This is an ideal course for students that want to get into drone flight as a hobby, or as a career in a fast growing field of unmanned aviation. Students could potentially earn both high school credit and college credit from MVCC. *WEIGHTED*

## **PROJECT LEAD THE WAY**

Project Lead the Way (PLTW) is a national program forming partnerships among public schools, higher education institutions, and the private sector to increase quantity and quality of engineers graduating from our education-system. The program is partially funded by charitable Venture Foundation, a private foundation located in Albany, NY. PLTW has a support staff of experienced technology educators and college and university partners to support schools as they implement PLTW curricular.

PLTW has developed a four- year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of engineering prior to entering college.

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<b>DESIGN &amp; DRAWING FOR PRODUCTION (IED)</b>	1 Credit	Grade 9-12	*Local Exam
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Exam can be used as Fine Arts – graduation requirement.

IED is an introductory course, which develops student problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state-of-the-art computer hardware and software (AutoCAD with Mechanical Desktop). This modern computer-based process replaces the traditional hand drawing methods. The course will emphasize the design/development process of a product and how a model of that product is produced, analyzed and evaluated using a Computer Aided Design System. Various design applications will be explored with discussion of possible career opportunities.

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<b>PRINCIPLES OF ENGINEERING (P.O.E.)</b>	1 Credit	Grade 10-12	* Local Exam
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*SUGGESTED PREREQUISITE:* DDP or permission of instructor.

Principles of Engineering are a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Student will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question, “Is a career in engineering or engineering technology for me?”

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<b>DIGITAL ELECTRONICS</b>	1 Credit	Grade 11- 12 (Year 22-23)	* Local Exam
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*SUGGESTED PREREQUISITE:* DDP & POE: Good Math skills strongly recommended. Can be taken at the same time as C.I.M. or Civil Engineering. *Offered every other year*

Digital Electronics is a course of study in applied digital logic. The course is patterned after the first semester course in Digital Electronics taught in two and four year colleges. Students will study the application of electronic logic circuits and devices and apply Boolean logic to the solution of problems. Such circuits are found in watches, calculators, video games, computers and thousands of other devices. The use of smart circuits is present in virtually all aspects of our lives and its use is increasing rapidly, making digital electronics an important course of study for a student exploring a career in engineering/engineering technology.

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<b>COMPUTER INTEGRATED MANUFACTURING (CIM)</b>	1 Credit	Grade 10-12 (Year 21-22)	* Local Exam
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*SUGGESTED PREREQUISITE:* DDP or permission of instructor. Can be taken at the same time as Principles of Engineering or Digital Electronics. *Offered every other year.*

The systems course builds upon the computer solid modeling design skills developed in Introduction to Engineering Design. Students will be presented with design problems that require the use of Inventor and Edge Cam software to develop solutions. They will use rapid prototyping equipment to produce three-dimensional models of the solutions. Robotics and the Robocell software will be used to enhance the Computer Integrated Manufacturing milling process. Fishertechniks will round out the critical thinking and problem solving experience. Students will be expected to communicate the process and results of their work through oral and written reports.

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**CIVIL ENGINEERING &  
ARCHITECTURE**

1 Credit

Grade 11- 12

\* Local Exam

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*SUGGESTED PREREQUISITE:* DDP & POE; Can be taken at the same time with Digital Electronics or CIM.

Civil Engineering and Architecture will provide students with a focus on following areas of civil engineering and architecture: Introduction to Project Planning, Project Analysis, Site Planning, Building Design, Project Implementation and Project Presentation.

The students will form design teams which be charged with the identification of a piece of local property. They will research the site and develop plans for roads, utilities, services, grading, environmental protection, landscaping, foundation, structural, floor plans, elevations, sections, schedules etc. Not all students will participate in every aspect of the design project. The teams will divide the work among themselves and report and each other regularly. Teams will be presenting and defending their project at the end of the years. In their studies, students enrolled in Civil Engineering and Architecture will utilize the software package, Autodesk Revit. The Civil Engineering and Architecture course is an additional course option for students pursuing a four-year sequence in Project Lead The Way.

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**ENGINEERING DESIGN  
AND DEVELOPMENT (EDD)**

1 Credit

Grade 12

\* Local Exam

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*SUGGESTED PREREQUISITE:* DDP, Digital Electronics, Prin .of Engineering & CIM / permission of instructor.

In this course, students will work in teams of two or four to design and construct the solution to an engineering problem, applying the principles developed in the four preceding courses. The problem may be selected from a database of engineering problems, be a recognized national challenge or be an original engineering problem identified by the team and approved by the teacher. The problems will involve a wide range of engineering applications. (e.g. a school robot, automated solar water heater, remote control hover craft). Students will maintain a journal as part of a portfolio of their work. Each team will be responsible for delivering progress reports and making final presentations of their project to an outside review panel. The completed portfolio will be invaluable as the students apply to college.

## BOCES

Any juniors or seniors wishing to take a vocational program must notify their counselor during the scheduling process. Enrollment is due by April 1<sup>st</sup>.

Good academic standing is required. Students who have successfully completed English 10 & Global 10 are eligible to enroll.

The following two-year half-day programs are offered at Madison-Oneida BOCES:

- Automotive Collision Repair
- Automotive Technology
- Career Exploration I
- Carpentry
- Conservation
- Cosmetology
- Criminal Justice
- Culinary Arts
- Early Childhood Education
- Electrical/HVAC
- Engineering Science
- Equine & Animal Science
- Graphic Design
- Health Related Careers
- Heavy Equipment
- Info Tech Systems
- Manufacturing Tech
- Law, Government & Public Admin
- Outdoor Power Equipment

### SPECIAL BOCES PROGRAMS

Seniors can apply for a one-year internship in *Allied Health Partnership, New Ventures, Engineering, Emergency Medical Technician*. See your counselor for details and qualifications.



## OHS CLUBS AND ORGANIZATIONS

### **Fall Sports**

JV Football
Varsity Football
JV Girls Soccer
Varsity Girls Soccer
JV Boys Soccer
Varsity Boys Soccer
JV Field Hockey
Varsity Field Hockey
Boys Varsity Cross Country
Girls Varsity Cross Country
Girls Varsity Tennis
Cheerleading

### **Winter Sports**

JV Boys Basketball
Varsity Boys Basketball
JV Girls Basketball
Varsity Girls Basketball
Girls JV Volleyball
Girls Varsity Volleyball
Varsity Wrestling
JV Wrestling
Swimming/Diving
Varsity Indoor Track
Unified Basketball

### **Spring Sports**

JV Baseball
Varsity Baseball
JV Softball
Varsity Softball
Boys Track
Girls Track
Boys Golf
Girls Golf
Boys Varsity Tennis

### **Clubs**

Art Club
Bookstore
Colgate Seminar
Drama Club
Environmental Club
Envirothon Club
FBLA
Freshman Class
Gamer's Club
International Relations Club
Japanese Exchange Program
Junior Class
Leo's Club
LGBTQ Club
Literary Magazine
Mathletics
Mock Trial
National Art Honor Society
National Honor Society
OHS Musical
Poetry Club
School Newspaper
Science Olympiad
Senior Class
Ski Club
Sophomore Class
Student Council
Technology Student Assoc.
Teens for a Better World
Writer's Club
Yearbook
Youth Court
Z Club

**Notes:**

**Notes:**

