

**MILLBROOK CENTRAL SCHOOL DISTRICT
MILLBROOK, NEW YORK 12545**

**MILLBROOK HIGH SCHOOL COURSE & CURRICULUM GUIDE
2025-2026**



ADMINISTRATION

Eric Seipp

High School Principal

GUIDANCE DEPARTMENT

Lauren Prince

Counselor, Students A-K

Thomas Chanowsky

Counselor, Students L-Z

Katherine Mattes

Administrative Assistant

Dear Parents/Guardians and Students:

The Millbrook High School Course Guide is designed to provide you with this year's course selections, policies and graduation requirements. We encourage you to read all the material, in particular the prerequisite criteria as you chart your course of study for your high school years. Some courses may require teacher recommendation and may also be based on current performance.

Making course choices can be exciting, challenging and sometimes difficult. You are urged to make responsible and realistic selections based on your ability, potential and needs. You should be having conversations with your parents/guardians, teachers and school counselors. In addition, you should speak to your peers in regards to their experiences in courses you are interested in. Once your courses have been selected and approved, you will be committed to your decision.

Millbrook High School also offers a vast selection of AP and College courses with the benefit of attaining college credit, these types of options provide students with an opportunity to challenge our students with college material along with courses saving possibilities for college credits. All students are encouraged to take the most rigorous course offerings to ensure college and career readiness.

We welcome a partnership between the administration, faculty, students and parents/guardians to give the students the maximum chance to meet their goals and prepare them for the future.

Feel free to contact your student's school counselor or my office for further information on any of our programs.

We look forward to learning about, and supporting your choices.

Eric T. Seipp
Principal

ACADEMICS

General Academic Requirements

*Freshman must take and pass a minimum of 5.5 course credits each year.

*Sophomores must take and pass a minimum of 5.5 course credits each year.

*Juniors must take and pass a minimum of 5.5 course credits each year.

*Seniors must take and pass 5.5 course credits each year.

*It is the student's responsibility to check with their guidance counselor to ensure that the necessary academic requirements for graduation are being fulfilled

*Exception to this requirement may be made by the principal for students with disabilities whose IEP states that less credits are appropriate, seniors who can complete all graduation requirements with less than 5.5 credits in their senior year, and those students without a disability but whose educational program and special circumstances may require less than 5.5 credits per year. Failure to maintain full time status as a "bonafied student" may affect participation in sports.

GRADUATION REQUIREMENTS

Regents Diploma

Required Credits

English	4
Social Studies	4
Mathematics	3
Science	3
Second Language	1
Health Education	.5
Art and/or Music	1
Physical Education	2
Electives	3.5

TOTAL 22

Regents Diploma with advanced designation

Required Credits

English	4
Social Studies	4
Mathematics	3
Science	3
Second Language	3
Health Education	.5
Art and/or Music	1
Physical Education	2
Electives	1.5

TOTAL 22

Regent Exam Requirements (5)

English
U.S. Hist./Govt.
Global History
1 Science
Integrated Algebra
or see 4+1 pathway

Advanced Regents (8)

English
U.S. Hist./Govt
Global History
2 Science (life & physical)
Integrated Algebra
Integrated Geometry
Integrated Alg II/Trig

Students must complete at least one unit of study in a second language. If students pass the Local examination in a second language at the completion of 8th grade, this will fulfill this requirement. A student identified as having a disability may be exempt from these requirements if the student's IEP states that such requirements are not appropriate.

Students who complete a 5 unit sequence in Career & Technical Education or the Arts are not required to complete the two additional units of credit in Foreign Language in order to earn an advanced regents diploma

Students with disabilities will be required to take each Regents course and examination as required for their entering class.

An official school diploma will only be issued based upon the completion of the Regents, local diploma, or Skills and Achievement Commencement Credential.

A high school diploma will represent termination of the district's responsibility to provide additional educational training opportunities as part of the regular day program. Any student earning a Certificate of Attained Skills & Experience will be informed in writing of his or her right to attend the public schools of the district until one of the following occurs:

1. The student earns a high school diploma; or
2. The student attains the age of 21 prior to September first of a school year.

ACADEMIC COMPETENCY

All students will be required to take the corresponding Regents examination, or a more challenging examination approved by the Commissioner of Education in order to be granted a high school diploma.

DIPLOMA TYPES

Awarding of diplomas and participation in graduation ceremony

There are 5 types of diplomas or certificates:

1. Advanced Regents diploma
2. Regents diploma (5 Regents exams passed or 4 + 1 Pathway)
3. State high school equivalency diploma (GED)
4. Career Development and Occupational Studies Credential
5. Local diploma for students with disabilities.

EARNING A REGENTS DIPLOMA

Students shall meet the commencement level New York State learning standards by successfully completing twenty-two units of credit and a minimum of five New York State assessments distributed as specified in (a) through (k)

below. After passing the required New York State assessment or approved alternative in Mathematics, Science, and English Language Arts, the remaining units of credit required in that discipline may be in specialized courses. A specialized course is a course that meets the requirements of a unit of credit as defined in section 100.1 (a) of the Commissioner's Regulations and the New York State commencement learning standards as established by the commissioner. A specialized course develops the subject in greater depth and/or breadth and/or may be interdisciplinary. Successful completion of one unit of study in an interdisciplinary specialized course may be awarded only one unit of credit but may be used to meet the distribution requirements in more than one subject. In a public high school, an interdisciplinary specialized course shall be taught by a teacher certified in at least one of the subjects.

- a. English, four units of credit and the Regents comprehensive examination in English or an approved alternative pursuant to section 100.2 (f) of the Commissioner's Regulations.
- a. Social Studies, four units of credit including one unit of credit in American History, the Regents examination in United States History and Government or an approved alternative pursuant to section 100.2 (f), the Regents examination in Global History and Geography or an approved alternative pursuant to section 100.2 (f)**, and a half unit of credit in Economics and a half unit of credit in Participation in Government or their equivalent as approved by the local public school superintendent or his or her designee.

** For further information on Pathway Assessment options, please refer to: NYSED website @ [p12nysed.gov](http://p12.nysed.gov)

- a. Mathematics, three units of credit and the Regents examinations in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2 (f). Students must pass either the examination titled Algebra I Common Core, Geometry Common Core or Algebra II Common Core.
- a. Science, three units of credit and one of the Regents examinations in science or an approved alternative pursuant to section 100.2 (f). In order to qualify to take a Regents examination in any of the sciences a student must complete **1200** minutes of actual hands-on (not simulated) laboratory experience with satisfactory documented laboratory reports. The 1200 minutes of laboratory experience must be in addition to the required classroom instruction associated with earning a unit of credit. There may, in some cases, be required New York State labs that must be completed.
- a. The Arts (including visual arts, music, dance and theatre), one unit of credit, which may be a specialized course that meets the arts standards at the commencement level as established by the commissioner. Any arts course for which credit will be awarded to meet the one unit of credit requirement for graduation must be taught by a certified teacher and must follow a State-developed or State-adopted syllabus or a locally-developed or locally-adopted syllabus approved by the commissioner.
- a. Health, one half unit of credit which may be a specialized course which meets the health standards at the commencement level as established by the commissioner. Any health course for which credit will be awarded to meet the one half unit of credit requirement for graduation must be taught by a certified teacher and must follow a State-developed or State-adopted syllabus or a locally-developed or locally-adopted syllabus approved by the commissioner.
- a. Languages other than English, one unit of commencement-level credit which can be earned by passing the local second language examination or an approved alternative pursuant to section 100.2 (d). A student identified as having a disability which adversely affects the ability to learn a language may be excused from the language other

than English requirement set forth in this subparagraph if such student's individualized education program indicates that such requirement is not appropriate to the student's special education needs. Such a student need not have a sequence in a language other than English but must meet the requirements for the total number of credits required for a diploma.

- a. Physical Education, two units of credit, except that a student who has completed the diploma requirements in fewer than eight semesters shall not be required to continue enrollment in high school for the sole purpose of completing the physical education requirements.
- a. Additional units in English language arts, mathematics, social studies, science, the arts, languages other than English, career and technical education, or any other subject area approved by the commissioner to a total of twenty-two units of credit.
- a. The State learning standards in technology may be met either through a course in technology education or through an integrated course combining technology with mathematics and/or science. A commencement-level course in technology education may be used as the third unit of credit in science or mathematics but not both.
- a. The learning standards for parenting may be met either through a separate course in parenting or through integration in a course in health or family and consumer sciences.
- a. Special educational needs. Such a student need not have a sequence in a language other than English but must meet the requirements for the total number of credits required for a diploma. Students completing a five-unit sequence in career and technical education or the arts (visual arts, music, dance, and theatre) are not required to complete the additional two units of the language other than English requirement for the Regents diploma with advanced designation but must still meet the requirements for the total number of units of credit.

Earning a Regents or local high school diploma shall be deemed to be equivalent to receipt of a high school diploma pursuant to Education Law section 3202 (1) and shall terminate a student's entitlement to a free public education pursuant to such statute. Earning a high school equivalency diploma shall not be deemed to be equivalent to receipt of a high school diploma pursuant to Education Law section 3202(1) and shall not terminate a student's entitlement to a free public education pursuant to such statute.

COURSE SELECTION POLICY AND GUIDELINES

Achieving a Millbrook High School diploma, and a New York State Regents diploma or Advanced Regents diploma requires students and parents/guardians to carefully plan a course of study that accommodates individual's goals for each year of their secondary education and the years following graduation. We urge students to select challenging courses while keeping in mind a realistic evaluation of ability, potential and needs.

This process requires both parents/guardians and students to give careful consideration to the placement recommendations provided by teachers, counselors and administration. Understanding the requirements and demands of each course will serve each student well. Administrators, faculty and counselors are strongly encouraged to have conferences and discussions with students.

Students entertaining the idea of registering and enrolling in advanced placement or dual enrollment college courses should keep in mind the demands and workload of a college-level curriculum. Success in these courses is determined by work performed in the class as well as completion of assignments beyond class time. College courses may also carry a fee.

No changes will be made to students' schedules at the start of the school year unless deemed necessary by the school counseling office and parent/guardians. Students are discouraged from withdraw from any course that has been selected during the course selection process.

The school reserves the right to cancel courses listed herein based on insufficient enrollment or lack of qualified instructor. Students will be offered the opportunity to adjust their schedules in the event a course is not offered.

DEFINITION OF TERMS USED IN THIS COURSE GUIDE

Credit: The value given to a high school subject taken daily for a minimum of 180 minutes per week (including laboratory periods) for 40 weeks

Courses that meet every other day will be awarded .5 credits

Courses that meet for a semester will be awarded .5 credits

Elective: A subject which is chosen by the student to complete the total number of units required or to enrich the instructional program

Regents Credit: Credit granted by the NYS Board of Regents upon successful completion of course requirements and the passing of a NYS Regents exam

CRITERIA FOR CLASS STANDARDS

Education is a progressive experience and is measured in terms of progress toward a goal. Students are classified according to the number of credits which they have earned toward graduation:

Sophomore: 5.5 credits, one unit of each English and Social Studies

Junior: 11 credits, two units of each English and Social Studies

Senior: 16.5 credits, three units of each English and Social Studies or can be enrolled in sufficient courses to be eligible for graduation

INSTRUCTIONAL LEVELS

Millbrook High School offers a diversified curriculum for students who are distinguished by wide individual differences in ability, achievement, effort and interest. The goal is to enable students to achieve and to realize their highest potential. Teacher and counselor recommendations for placement are based on the following criteria:

- A. Standardized test data
- B. Academic achievements
- C. Observations of a student's work habits, interest, attitude, and motivation

SCHEDULE CHANGES

Schedule changes and drops will be made only when needs are clearly indicated. The deadline for such schedule changes must be made a week after progress reports are available (the end of the 6th week of school). After this date all requests to drop/change courses may require a parent conference with the teacher, counselor, student and principal. Requests for such changes must be in writing on the appropriate form available in the School Counseling Office. The request will not receive final approval until the appropriate form is returned.

HONOR ROLL

High Honor Roll – reserved for students with a weighted average of 90.0 or above using all subjects, with no weighted grade below 80.0, as well as no incomplete grades.

Honor Roll – reserved for students with a weighted average of 85.0 or above, using all subjects, and no weighted grade below 75.0, as well as no incomplete grades.

Honorable Mention – reserved for students with a weighted average of 80.0 or above, using all subjects and no weighted grade below 70.0, as well as no incomplete grades.

* Overall averages are not rounded up.

GRADING AND RANKING

Report cards are issued four times a year: mid-November, early February, mid-April, and late June. Parents should be aware of these dates for the purpose of reviewing academic progress, and should direct all questions concerning grades to the teacher responsible for issuing them. The passing mark is 65%. In February of their senior year, official class rank is determined, taking into account grades from 1st semester.

Final ranking is completed at the end of the second quarter. Rank in class is determined by weighted average. Grades on a transcript are not weighted. Weighting is used to calculate rank in class only.

Alpha conversion of grades is as follows:

A+= 97-100	B+=87-89	C+=77-79	D+=67-69	F=64 and below
A = 93-96	B = 83-86	C =73-76	D = 65-66	
A- = 90-92	B- = 80-82	C- = 70-72		

Association of Secondary School Principal's Recommended Formula

Weighting	Average	
AP/College	X	1.06
Honors	X	1.04
Regents	X	1.02
School	X	1.00

Effective July 1, 2011, transfer students who enter Millbrook High School after the completion of one or more years at another institution may participate in a transcript review. The principal will be able to weight transfer classes based on curricular expectations and difficulty level. It is the responsibility of the student to provide information requested by the principal deemed necessary to complete this process within 70 calendar days from the date of enrollment. If a student fails to provide the requested materials, the principal will weight the courses by using the Regents or School formula. No transfer student's courses in a given year will be permitted to exceed the maximum weight any given Millbrook High School student in the same grade may achieve based on the Millbrook High School course offerings. In the instance where a transfer student's grades are based on a letter system, the highest numeric value will be selected from the appropriate numeric range to determine the student's ranking.

COMPUTATION OF FINAL GRADE

FULL YEAR COURSE

Marking Period	Mid Exam	Final Exam	Final Grade				
1	2	3	4				
Percent Example	20%	20%	20%	20%	10%	10%	100%
80	90	70	90	80	80	82	

SEMESTER COURSE

Marking Periods	Final Exam	Final Grade		
1 (3)	2 (4)			
Percent Example	40%	40%	20%	100%
90	80	90	86	

All quarter averages are weighted (based on the type of class i.e. regents level, etc.) but the final average is unweighted. Both weighted and unweighted GPA's will appear on the final transcript.

Students receiving grades of INC (Incomplete) are to complete all missing work. Failure of a student to complete missing work, without a legal excuse and special arrangements being made, will lead to a grade of zero (0) for the

incomplete work. The zero (0) will be incorporated into the grade to determine the reported grade for the marking period. There are to be no grades of INC for any marking period without special permission from the principal.

Progress reports are issued during the fifth week of each marking period. Their purpose is to alert you and your parents concerning unsatisfactory progress, or commend you for exemplary effort and achievement. The intent of the formal type of progress report is to offer specific suggestions for improvement of your work. The maximum benefit from these reports comes only when (1) parents contact the teacher to arrange a conference, and (2) students confer with the subject teacher for specific suggestions for work improvement. Both steps should be taken immediately.

Parents may view students' grades through the Parent Portal System. Parents must first register in the High School office for access.

ACADEMIC COMPETENCY

All students will be required to take the corresponding Regents examination, or a more challenging examination approved by the Commissioner of Education in order to be granted a high school diploma.

COLLEGE PREPARATION

Every student should be concerned not only with meeting graduation requirements, but with meeting college and other post-secondary education requirements as well. Students need to consult college catalogs and to keep up-to-date on admissions. The School Counseling Office maintains a current collection of catalogs as well as SAT, ACT, FAFSA, PSAT applications, and other information needed by students contemplating post-secondary studies. In addition, regular visitations from college representatives are scheduled. The School Counseling Office is a valuable asset for students to utilize as they begin planning what they'll do after graduation. Students should visit the Naviance program accessed by MCSD.

It is never too early to begin this planning. Students are encouraged to utilize these services early in their high school careers and on a regular basis during their career at Millbrook High School.

COLLEGE CONNECTION COURSES / ADVANCED PLACEMENT (AP)

Students who are in an advance placement course are required to sit for the AP test in May. The cost per test is approximately \$99.00, subject to change by College Board. Students are required to submit this payment in September.

****If we do not receive your payment by this date, your student will be removed from this course and placed in a non-advanced placement course.** This fee is non refundable.

Students having difficulty securing funding for their AP examination(s) should see their school counselor.

Marist college connection courses are taught at MHS by our faculty and have a per credit fee associated with them. The estimated fee for 2025-2026 is \$100 per credit (this is subject to adjustment by the college in the summer). All classes are three to six credits depending on the subject area. Students who are enrolled in the Marist college connection classes have the OPTION OF NOT enrolling in Marist. All students in these classes will be required to take the AP Examination in May. The administration process for enrolling in Marist and paying for the credits will take place at MHS in September. Students, who enroll in Marist, pay the credit fee and pass the course, will be awarded the appropriate number of credits on a Marist college transcript. Marist also may institute a credit limit per student of 6 per semester. This decision is subject to change by the university.

Rochester Institute of Technology college connection course through Project Lead the Way are taught at MHS by our faculty. Upon successful completion of the end of the year exam, students have the option to pay a \$200 tuition fee (subject to change by the University) to receive 3 undergraduate non-quality credits on a RIT college transcript. These credits ARE transferable to many other post-secondary institutions. Students are responsible for requesting transcripts.

DUTCHESS COMMUNITY AND MARIST COLLEGE BRIDGE PROGRAMS

During their senior year, students have the option of completing all or some of their final courses at Dutchess Community College in Poughkeepsie, NY and/or Marist College in Poughkeepsie, NY. *Students interested in exploring these options should speak to their guidance counselor. Students are responsible for the financial costs associated with this option. * Students doing a total Bridge to DCC must have a minimum GPA of 85%.

Request for High School Credit for College Courses Outside of DCC/Marist/RIT

Students who enroll in college programs that offer credit must have these classes pre-approved by the school principal in order for them to count towards graduation requirements. Only pre-approved classes that count towards graduation requirements will be placed on official MHS transcripts.

2025-2026

Course and Curriculum Guide

BUSINESS EDUCATION/ COMPUTER SCIENCE

Course Name: **Financial Math**

Course Status: Elective

Credit: 1

Prerequisite: None

Grade Level: 11/12

Course Level: General

Multiplier 1.00

Description: A practical look at information needed by all citizens who want to be successful in the real world, financial math will look at topics like gross and net income, budgeting, checking and savings accounts, credit and debit card use, car purchases and leases, house purchases and apartment rentals, life/auto/health insurance, and other important pieces of information.

Course Name: **Business Law**

Course Status: Elective

Credit: 1

Prerequisite: None

Grade Level: 11/12

Course Level: General

Multiplier 1.00

Description: Business Law is a very comprehensive course that examines the global economy and the knowledge necessary to succeed in that environment. The student will be exposed to the business organization, human resource management, finance and accounts, marketing, and operations management.

Course Name: **Trial Techniques**

Course Status: Elective

Credit: 1

Prerequisite: None

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: Trial Techniques is the companion class to the Mock Trial team competition. In Trial Techniques, students will learn the basics of running a legal trial. We will use fictional civil and criminal cases to learn how to:

- | | |
|---|--|
| ☐ outline the elements of a crime or civil action, | ☐ prepare an opening statement, |
| ☐ do a direct and cross examination of witnesses, | ☐ make legal objections, and |
| ☐ deliver closing arguments. | |

This class is for anyone interested in:

- | | |
|---|---|
| ☐ law as a future career, | ☐ the art of persuasion and advocacy, |
| ☐ becoming a better public speaker | ☐ just learning about how the legal system works in general. |

The goal is to have a trial every week. Whether you are on the prosecution/plaintiff's side or on the defense, you are learning new trial skills as an attorney or witness by actually playing that role at trial.

Course Name: **History of Sports**

Course Status: Elective

Credit: 1

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: The "History of Sports" course provides students with a captivating journey through the evolution of sports, exploring its profound impact on societies across the globe. This class goes further than recounting athletic achievements as students are invited to analyze the connections between sports and the broader socio-economic and political forces that shape our world. Throughout the year, students will engage in a deep exploration of the historical context, origins, and development of various sports. The course places a particular emphasis on the significance of race, ethnicity, and social class, encouraging students to consider how these factors have influenced and been influenced by the world of sports. The course is structured to promote a deep understanding of the role of sports in society, fostering discussions on its impact at the local, national, and global levels. Students will embark on a journey through time, examining the cultural dimensions of sports and their economic implications, and assessing the ways in which sports have been entwined with political forces.

FINE ARTS

Course Name: **Studio Art**

Course Status: Elective

Credit: 1

Prerequisite: None

Grade Level: 9

Course Level: General

Multiplier 1.00

Description: Studio Art is the High School basic Visual Art Course. The class is open to all students and satisfies the State Mandate for the Arts. It is one period every day for the entire school year. The Studio Art student explores the Principles and Elements of Design while creating a variety of artwork from an assortment of media. The course is 'process' not 'product' oriented and is designed for all motivated students to succeed in both the planning stage and the creation of artwork. Lessons in drawing, painting, printmaking, graphic design and sculpture are completed while incorporating some individual choice in design and subject. Art history will be incorporated to inspire students to create their own original work. A 'Showcase Portfolio,' which includes all work created during the course is sent home at the end of the school year. Several displays and exhibitions are planned for each year.

Course Name: **Public Art**

Course Status: Elective

Credit: 1

Prerequisite: Studio Art or teacher approval based on a portfolio review

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This class is for the passionate art student who wants to use their artistic abilities to improve their school community. Students will investigate, design and create public works of art at MCSD, such as murals and mosaics. A variety of styles and techniques will be explored while completing large scale projects at different sites. The curriculum will include street art, graffiti, public installations, and other forms of Contemporary Art. Students will work in groups to develop proposals and sketches. Feedback from our MCSD community will be used to revise and refine works of art as students progress from initial sketches to finished artwork. Students will gain hands-on experience similar to what an artist might expect when receiving an art commission

Course Name: Independent Study

Course Status: Elective

Credit: 1

Prerequisite: 3 credits, in any combination, of Drawing/Painting & Mixed Media/Graphic Design/Sculpture/ Ceramics & Functional Art and teacher approval based on a portfolio review.

Grade Level: 12

Course Level: General

Multiplier 1.00

Description: This course is for the serious, experienced art student who is interested in pursuing art as a lifelong interest or career. Independent Study involves collegiate level challenges that will complete the art student's experience and preparation for continuing education in the Visual Arts. Students will be given the freedom to choose their own projects, usually stemming from a certain idea, theme or material. With this freedom comes more responsibility as well. Students will be required to meticulously design and self-assess their own projects. Lessons are closely monitored to further build up artistic direction and personal vision. By improving weaker areas of knowledge and broadening experience, students are helped to prepare for college. A sketchbook will be very important throughout this process, and should serve as a visual record of the students' process. This will include all planning, intentions, experimentations and reflections. Part of the curriculum will be dedicated to developing an art portfolio, possibly with college admissions in mind.

Course Name: Graphic Design I

Course Status: Elective

Credit: 1

Prerequisite: Studio Art or PLTW Design & Drawing for Production

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: Graphic Design is a full year course that meets every day in the mac lab. Students will use various programs on the mac as well as the Adobe Creative Cloud Suite such as Photoshop, Illustrator, and After Effects. This class will give the students the knowledge and hands on experience they need in order to create meaningful, well designed projects and learn about graphic design as a potential career. Students will study trends in graphic design, influential designers and create artwork both commercial and creative inspired by these influences. Students have access to all photography, videography equipment as well as drawing tablets and iPads for creation. A digital portfolio is created throughout the course.

Course Name: Graphic Design II

Course Status: Elective

Credit: 1

Prerequisite: Graphic Design I

Grade Level: 11/12

Course Level: General

Multiplier 1.00

Description: Graphic Design II is a full year elective course that meets every day in the mac lab. In this course students will go beyond project completion and learn how to work as a true graphic designer. The course will deepen knowledge of Adobe programs such as Photoshop, Illustrator and In Design. Students will also learn animation techniques using After Effects and video editing in Premiere Pro. Students will work within a design team, creating design briefs and sketches to present to a client. Throughout the course students will expand upon their digital portfolio, complete a personal branding project and explore options for internships or college programs in graphic design.

Course Name: Media Design & Production I

Course Status: Elective

Credit: 1

Prerequisite: Studio Art or PLTW Design & Drawing for Production

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: Media design is a course that introduces the tools, techniques, and concepts behind the production of digital media with a focus on video. Students will learn how to use digital photography and videography film equipment as well as film history, theory and film production. Students create both individual film projects as well as complete films within a group. Students explore how to plan, record, edit and produce a news video for the school, taking on different production roles. Students work with real life assignments, and the projects may vary depending on the needs and wants of the district.

Course Name: Media Design & Production II

Course Status: Elective

Credit: 1

Prerequisite: Media Design & Production I

Grade Level: 11/12

Course Level: General

Multiplier 1.00

Description: This course expands upon the basics of video production learned in Media I and allows students to explore the more advanced roles of production. Students will take a more active role in the acting and post-production work being completed in the film studio. Students will also act as mentors to the students in Media I, helping them become more comfortable with the equipment and completion of assignments. Students will complete a film reel portfolio and explore options for internships or college programs in media production.

Course Name: Sculpture

Course Status: Elective

Credit: .5

Prerequisite: Studio Art

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This course is designed for the imaginative and innovative student, looking to broaden their high school visual art experience. Exposure to Contemporary Art and Artists will inspire creative, out-of-the-ordinary artworks produced during this course. Students will learn mold-making techniques, as well as using materials such as chipboard, wire, plaster, styrofoam and 3D-printing pen. Some nontraditional materials, such as recycled objects, will be incorporated into individually designed lessons. Collaborative works of art will also be part of this course. Students will study and research a variety of contemporary artwork, which will be reflected in students' personal art. Although this class has a sculptural focus, drawing will be an important aspect of the course! All projects must be investigated, planned and drawn in a sketchbook prior to beginning the 3D process.

This course is a prerequisite for the Ceramics & Functional Art course.

Course Name: Ceramics & Functional Art

Course Status: Elective

Credit: .5

Prerequisite: Sculpture

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This course is designed for the imaginative and innovative student who wants to develop their sculpture skills. Students will be using earthenware and will learn a range of different hand-building, throwing and glazing techniques. Focus will also be placed on creating functional artwork, either out of ceramic or another medium, such as fiber art and mosaic. A sketchbook will be very important throughout this process, and should serve as a visual record of the students' process. All experiments, drawings, ideas, inspiration, intentions, reflections

and research should be recorded in a journal on a daily basis, as well as researching art history to gain expertise.

Course Name: Drawing

Course Status: Elective

Credit: .5

Prerequisite: Studio Art

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This class is for the enthusiastic art student and focuses on developing drawing skills. It meets every day for one semester. Although a focus will be placed on pencil, students will also use charcoal, colored pencils, conte, pastels and ink. A variety of styles will be explored while completing long-term, quality art projects. With some freedom of choice in planning projects, students will begin to develop personal style and direction while improving their technical skills.

A sketch book will be completed with work reflecting personal interests outside of the class artwork. Students will be responsible for exploring original ideas that will be the basis for certain projects, as well as researching art history to gain expertise and develop their theme.

Part of the curriculum will be dedicated to developing an art portfolio, possibly with college admissions in mind.

This course is a prerequisite for the Painting & Mixed Media course.

Course Name: Painting & Mixed Media

Course Status: Elective

Credit: .5

Prerequisite: Drawing

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This class is for the enthusiastic art student and focuses on the development of skills through a range of materials and concepts. It meets every day for one semester. Students will create unique, original and nontraditional works of art by using familiar materials to create mixed media artwork. Many printmaking skills such as relief, reduction, mono-printing and etching will be implemented. The class will also investigate various painting techniques, such as watercolor, acrylic, gouache, and oil. With some freedom of choice in planning projects, students will begin to develop personal style and direction while improving their technical skills. A sketchbook will be very important throughout this process and should be a visual record of your journey in the class. All experiments, drawings, ideas, inspiration and research should be recorded in a journal, as well as researching art history to gain expertise. Part of the curriculum will be dedicated to developing an art portfolio, possibly with college admissions in mind.

Course Name: Band

Course Status: Elective

Credit: .5

Prerequisite: Students were to have been involved with the MCSD band program with passing grades, or another similar school program if they are entering our school district. If a student wants to enter the HS Band without the prerequisite, they must get permission from the instructor after demonstrating a proficiency level appropriate for the HS Band.

Grade Level: All

Course Level: General

Multiplier 1.00

Description: The High School Band is a brass, wind and percussion ensemble that rehearses every other day in the school schedule. Students are also required to attend weekly sectional lessons which are set in a rotating class period schedule. Also, each student is required to practice at home. The HS Band performs at the Homecoming Football Game, school concerts, and the Spring Arts Festival, among other concert events. Students must attend the performances. Additionally, all band members will also perform at the Memorial Day Service and High School Graduation. The

Band may also attend a music festival that may include an overnight stay. In addition, students will be given the opportunity to perform solos, in small ensembles and county and NYSSMA festivals. Students will be evaluated via performance ability, practice and participation.

Course Name: Chorus

Course Status: Elective

Credit: .5

Prerequisite: Middle School Chorus or permission of instructor

Grade Level: All

Course Level: General

Multiplier: 1.00

Description: Chorus is a performing ensemble that meets as a class every other day. Other opportunities for select singers also exist on an individual basis. Students study, learn, and perform many different types of vocal literature, as well as rhythmic and melodic sight-reading. Attendance at all concerts is mandatory unless an excuse is provided to the instructor in advance.

Each student is also required to attend vocal lessons which are set in a rotating class period schedule.

Students are evaluated through rehearsal participation, written class work, tests/quizzes, concert/lesson attendance, homework, and group/individual vocal tests.

Students in the choral program are expected to demonstrate commitment and dedication to vocal/choral music through outstanding attitude, effort, and achievement.

ENGLISH

Course Name: English 9

Course Status: Required

Credit: 1

Prerequisite: Placement

Grade Level: 9

Course Level: Regents

Multiplier: 1.02

Description: This course is designed for all 9th grade students. Expository writing expectations are reviewed and a variety of essay types are introduced. Development of vocabulary and appreciation of literature in various genres is analyzed, compared, contrasted and critiqued to promote critical thinking skills assessed by the revised NYS Regents. Titles that may be read in English 9 Regents or HONORS are, but not limited to: To Kill a Mockingbird, Romeo and Juliet, Animal Farm, Princess Bride, The Crucible, Flowers for Algernon, They Cage the Animals at Night, Looking for Alaska, Monster, The Things They Carried. Students will also be required to complete independent self-selected reading.

Text: Patterns in Literature

****Students may contract with their teacher in English 9 and English 10 for Honors level work and credit/weighting. Credit is awarded only after successful completion of contract assignments.**

Course Name: English 10

Course Status: Required

Credit: 1

Prerequisite: English 9

Grade Level: 10

Course Level: Regents

Multiplier: 1.02

Description: English 10 is a one-year course which allows students to explore language for expressive, explanatory, critical, argumentative, and literary purposes. It fosters communication skills through writing in the form of journals, various personal and critical essays, and literary analysis. Verbal communication skills will be enhanced through

class discussion, debate, and oral presentations.

Students will be given the opportunity to identify with others from the study of literature: short stories, novels, plays and poetry.

Weekly assignments, stressing critical thinking and writing skills based on fiction and non-fiction selections are essential elements of the course.

Titles that will be read in English 10 Regents include:

Text: Literature and the Language Arts

Course Name: English 11

Course Status: Required

Credit: 1

Prerequisite: English 9 & 10

Grade Level: 11

Course Level: Regents

Multiplier 1.02

Description: This course is a survey of American Literature that stresses literary and cultural themes. This course includes a variety of literary genres. A thematic approach is used. There is a strong emphasis on writing, speaking, and discussion. The final assessment of student achievement is based upon the Comprehensive Regents Examination given at the end of the year.

Text: Literature: Reading Fiction, Poetry & Drama

Course Name: English 12

Course Status: Required

Credit: 1

Prerequisite: English 9, 10 & 11

Grade Level: 12

Course Level: Regents

Multiplier 1.02

Description: Students study an assortment of short stories, novels, and non-fiction literature. In addition, they will enrich their knowledge of the elements of theme, non-fiction, setting, plot, characterization, tone, mood, point of view and connecting issues in literature with the world today. These ideas are substantiated in the writing assignments and projects. In addition, students will participate in an extensive media unit designed to help them to deal effectively with our ever-changing society.

Course Name: Advanced Placement English Literature

Course Status: Elective

Credit: 1

Prerequisite: Teacher recommendation based on the AP/HONORS Recommendation Guide.

Grade Level: 11

Course Level: A.P.

Multiplier 1.06

Description: Students selected for this course will be involved in an extensive study of all literary genres with compositions following the MLA guidelines. One of the objectives is to prepare students to take the Advanced Placement examination offered by the College Board. Students are required to sit for the AP Examination in May.

Course Name: DCC English

Course Status: Elective

Credit: 1

Prerequisite: Teacher recommendation based on the AP/Honors Recommendation Guide, 85 or better on English 11 Regents exam.

Grade Level: 12

Course Level: College

Multiplier 1.06

Description: This course will address the major principles of college writing, which are meant to serve students in all the disciplines across the curriculum. The course concentrates primarily on expository and argumentative writing; traditional rhetorical modes; and effective composing, revising, and editing strategies. This class covers MLA

conventions, and a research paper is required. Critical thinking and reading skills are also stressed. Emphasis will be placed upon well-organized written composition, factually-supported conclusions, and awareness of language variety.

Effectiveness of expression and validity of judgment in the student's writing are stressed. Genre reading will include fiction, poetry, and drama. Students will earn English 101 and English 102 credits from DCC.

Text: Literature: Reading Fiction, Poetry & Drama

FAMILY & CONSUMER SCIENCE

Course Name: Child Development & Psychology

Course Status: Elective

Credit: .5

Prerequisite: None

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This course is designed to explore human development from the time of conception through adolescence. Students will explore developmental and psychological stages of individuals across the lifespan. This course will also discuss effective parenting theory and allow students to gain skills to relate and educate young people.

Course Name: Social Psychology

Course Status: Elective

Credit: .5

Prerequisite: None

Grade Level: 10/11/12

Course Level: General

Multiplier 1.00

Description: This introduction to psychology is designed to help the student appreciate the complexity of human behavior and personality development. The course focuses on supported learning and application and makes the connection between the scientific principles of psychology and the lives of today's student population. Topics include human development, personality theory, psychological disorders, states of consciousness, and current theoretical approaches to psychology. The focus of this course is to understand how and why our society functions the way it does.

MATHEMATICS

Course Name: Integrated Algebra I CC

Course Status: Required

Credit: 1

Prerequisite: None

Grade Level: 9

Course Level: Regents

Multiplier 1.02

Description: This course is the first senior high school course in mathematics. The scope and content of this course is algebra, problem solving, the rectangular coordinate system, basic geometry, basic trigonometry, basic statistics and probability. Scientific or graphing calculator required. All students will take the Integrated Algebra Regents exam at the end of the year.

Course Name: Geometry CC

Course Status: Required

Credit: 1

Prerequisite: Integrated Algebra 1 CC

Grade Level: 10

Course Level: Regents

Multiplier 1.02

Description: This course is the second high school course in mathematics. The main focus of the course is geometry. The scope and content is geometry, analytic geometry, transformational geometry, and problem solving.

Course Name: Geometry Concepts and Skills

Course Status: Elective

Credit: 1

Prerequisite: Integrated Algebra 1 and a passing score on the algebra regents

Grade Level: 10

Course Level: General

Multiplier 1.00

Description: This is a second high school mathematics course that explores geometry topics through hands on manipulation and technology. The Integrated Geometry regents exam will not be taken at the end of this class. Geometry Concepts and Skills will cover topics such as lines, angles, polygons, circle geometry and coordinate geometry.

The use of technology; in the form of graphing calculators, GeoMeter's Sketchpad, excel and various Java applets will be utilized in the course.

Course Name: Algebra II CC

Course Status: Elective

Credit: 1

Prerequisite: Geometry CC

Grade Level: 10/11

Course Level: Regents

Multiplier 1.02

Description: This is a course in advanced algebra. Integrated Algebra includes topics such as exponential and logarithmic functions, trigonometric functions, conic sections, sequences and series, matrices, probability and statistics. Integrated Algebra II/Trigonometry is designed for those students wishing to pursue mathematics and or science. The use of technology will be apparent in all aspects of this course and all students will be required to have a graphical calculator. This course will not have the Regents exam in Algebra II/Trigonometry as a requirement.

Course Name: Advanced Placement Pre-Calculus / Marist College

Course Status: Elective

Credit: 1

Prerequisite: Two years of high school algebra or MATH 108

Grade Level: 11/12

Course Level: A.P.

Multiplier 1.06

Description: Precalculus is an introduction to the basic mathematical skills necessary for the study of calculus. The topics studied include rational expressions, analytic geometry, and the elementary properties of functions including exponential, logarithmic, and trigonometric functions. This course is intended for students who plan to enroll in MATH 241 but lack the necessary background. Appropriate technology will be selected by the instructor. This course is offered every fall. NOTE: This course may not be taken for credit by students who have completed MATH 241 or higher courses or their equivalents.

Prerequisite: *Students are required to sit for the AP Examination in May.*

Course Name: Advanced Placement Calculus AB / Marist College

Course Status: Elective

Credit: 1

Prerequisite: Pre-calculus or Algebra II/Trigonometry and teacher recommendation based on the AP/HONORS Recommendation Guide

Grade Level: 11/12

Course Level: A.P.

Multiplier 1.06

Description: This advanced placement course includes analytic geometry, functions, limits, differentiation, integration, and their application in problem solving. Students are required to take the Advanced Placement examination. Successful completion of the course requirements will result in Marist College credits for Math 241 (4 credit hours).

Students are required to sit for the AP Examination in May.

Course Name: Advanced Placement Calculus BC / Marist College

Course Status: Elective

Credit: 1

Prerequisite: AP Calculus AB and teacher recommendation based on the AP/HONORS Recommendation Guide.

Grade Level: 12

Course Level: A.P.

Multiplier 1.06

Description: Calculus BC is an extension of Calculus AB rather than an enhancement: common topics require a similar depth of understanding. Both courses are intended to be challenging and demanding. The topics covered in BC Calculus include all the topics from AB Calculus and also the following: Parametric polar and vector functions, and the analysis of these functions using derivatives and integrals, Euler's Method and L'Hospital's Rule, Integration by parts, by partial fractions and indefinite integrals, logistic growth and decay problems, work with series and sequences including convergence, divergence and Taylor series. Students are required to take the Advanced Placement examination. Successful completion of the course requirements will result in Marist College credits for Math 242 (4 credit hours).

Students are required to sit for the AP Examination in May.

HEALTH & PHYSICAL EDUCATION

Course Name: Health Education

Course Status: Required

Credit: .5

Prerequisite: None

Grade Level: 10

Course Level: General

Multiplier 1.00

Description: This course attempts to develop sensible and lasting attitudes and behavior regarding many areas of life impacting personal wellness. The three major components of health are physical, mental/emotional and social health. The units of study under these components include: drug, alcohol, tobacco, nutrition, fitness, stress management, reproduction, families and relationships, diseases and disorders as well as environmental health. Some of the skills acquired through these units are goal setting, decision making, and communication and refusal skills. Efforts to ensure competence in these areas of health should assist our young people in leading more well balanced and healthier lives. This course is usually offered to the 10th grade student and is a New York State mandated requirement for high school graduation.

Course Name: Physical Education

Course Status: Required

Credit: .5

Prerequisite: None

Grade Level: All

Course Level: General

Multiplier 1.00

Description: The purpose of the Senior High Physical Education is to lead healthier and more physically active adult lives. The activity-based program provides opportunities to attain concepts and learn skills in depth, for fitness, development, team, individual and dual lifetime sports, outdoor activities, and personal living by learning about the roles played in developing healthful behaviors. In addition, students will understand and be able to manage their personal and community resources so they can continue to be physically active beyond school. The goals of the program reflect the New York State learning standards for Physical Education, and the district mission.

SCIENCE

Course Name: Earth and Space Sciences

Course Status: Required

Credit: 1

Prerequisite: None

Grade Level: 10

Course Level: Regents

Multiplier 1.02

Description: Earth Science is a Regents course where students will study meteorology, astronomy, oceanography, and the geology of the Earth. It is a demanding course that requires the student to study a minimum of 30 minutes each night. Students are also required to complete a minimum of 20 laboratory hours as required by the New York State Board of Regents. Students completing the necessary lab hours will sit for the Earth Science Regents exam in June. Lab periods are scheduled every other day for 1 period where students will conduct investigations that are hands-on; a written lab report will be required for each investigation. Amsco's Earth Science Review book is a required part of the course.

Course Name: Life Science: Biology

Course Status: Required

Credit: 1

Prerequisite: None

Grade Level: 9

Course Level: Regents

Multiplier 1.02

Description: Regents Biology is a 40-week course that culminates in a state Regents Living Environment exam in June. The course requires a minimum of 20 minutes a night for study in order to be prepared for the end of the year assessment. There is also a minimum of 20 lab hours (1200 minutes) of laboratory activities or their equivalent required by the state. As part of the 20-lab hour requirement, this lab section must include the successful completion of 4 state required labs. Lab periods are scheduled every other day for 2 periods. Written documentation is required for all labs and many more lab activities are completed than required by the state.

This course covers topics, which include; diversity, structure, and chemistry of living things, reproduction and development in plants and animals, genetics, homeostasis in organisms, evolution, and ecology.

The course gives students an understanding of their bodies and life processes as well as showing them that they are part of life and have a relationship with other living things in addition to their physical environment.

Course Name: Chemistry

Course Status: Elective

Credit: 1

Prerequisite: Passing score on Life Science: Biology, and/or the Earth and Space Sciences & Integrated Geometry Regents Exam

Grade Level: 11

Course Level: Regents

Multiplier 1.02

Description: Chemistry is an advanced Regents science course that requires each student in the course to complete a minimum of 1200 minutes of laboratory activities. The course includes the study of matter and its interactions. Units include Phases of Matter, Atomic Structure, Periodic Table, Formulas and Nomenclature, Bonding, Chemical Reactions, Energy and Kinetics, Equilibrium, Acids and Bases, Organic Chemistry, Electrochemistry, and Nuclear Chemistry. The Regents Examination will be given at the end of the year.

Course Name: Advanced Placement Physics

Course Status: Elective

Credit: 1

Prerequisite: *Algebra CC*

Grade Level: 11/12

Course Level: A.P.

Multiplier 1.06

Description: This course is an Algebra-based, introductory, college level physics course. Topics Covered: Kinematics, Dynamics, Circular Motion and Gravitation, Energy, Momentum, Simple Harmonic Motion, Torque and Rotational Motion. No prior course in Physics required.

NOT Required: Regents Physics, knowledge of Calculus

Course Name: Forensics/Environmental Science

Course Status: Elective

Credit: 1

Prerequisite: None

Grade Level: 11/12

Course Level: General

Multiplier 1.00

Description: This course will provide students with an introduction to the theoretical understanding and practical application of forensic science techniques while learning basic concepts in Earth Science, Chemistry and Physics. Topics include: crime scene investigations, evidence collection and examination, interaction of physical conditions with evidence, careers in forensics, bloodstain pattern analysis, soil analysis, forensic toxicology, forensic anthropology, and ballistics.

Course Name: DCC Biology 105

Course Status: Elective

Credit: .5

Prerequisite: Chemistry knowledge, Math Placement level 3 (Algebra 2 Trig)

Grade Level: 12

Course Level: College

Multiplier 1.06

Description: 4 credit hours – An interdisciplinary study of basic biological concepts, including the nature of science, matter, the cell, characteristics of living matter, a brief survey of the living world, and ecology. BIO 105 and BIO 106 are recommended for students who wish to pursue studies in the Biological and Life Sciences.

Course Name: DCC Biology 106

Course Status: Elective

Credit: .5

Prerequisite: BIO 105 with a grade C or better.

Grade Level: 12

Course Level: College

Multiplier 1.06

Description: 4 credit hours – A continuation of BIO 105, including homeostasis in organisms, genetics, evolution and a consideration of the structure and function of tissues, organs and organ systems.

SECOND LANGUAGE

Course Name: French II

Course Status: Elective

Credit: 1

Prerequisite: Successful completion of the NYS Proficiency exam in French

Grade Level: 9

Course Level: General

Multiplier 1.00

Description: This course is designed for advancement and broadening of the skills of listening, speaking, reading, and writing, as well as, essential grammatical structures. Further development of student understanding of the French way of life is pursued. French II is designed to fulfill one half of the NYS syllabus Checkpoint B requirements.

Course Name: French III

Course Status: Elective

Credit: 1

Prerequisite: French II and teacher recommendation

Grade Level: 10

Course Level: General

Multiplier 1.00

Description: As the continuation of French II, extensive practice toward the mastery of the four skills of listening, speaking, reading, and writing is maintained. Class is predominantly conducted in the target language and emphasizes the vocabulary, grammar and cultural topics in accordance with Checkpoint B requirements. Students are expected to actively participate in class. At the end of the course, students will take a final assessment.

Course Name: French IV/V Honors

Course Status: Elective

Credit: 1

Prerequisite: A grade of 80 or better in French III and teacher recommendation

Grade Level: 11/12

Course Level: Honors

Multiplier 1.04

Description: This is a combined course for French IV and V students to develop a greater degree of mastery of the French language and culture. through French literature, film, music, art, journal writing, internet research projects and class presentations, students will increase vocabulary, refine grammatical structures and verbs, and further develop the four skills of listening, speaking, reading and writing. Thematic units from the textbook, Discovering French, Rouge and Imaginez will also enhance students' knowledge of real-world vocabulary and increase opportunities for communication in the classroom. This class is for motivated students who wish to actively participate in the target language.

Course Name: Spanish II

Course Status: Elective

Credit: 1

Prerequisite: *Successful completion of the local exam in Spanish*

Grade Level: 9

Course Level: General

Multiplier 1.00

Description: In this course students will advance and broaden the skills of listening, speaking, reading, and writing, blending essential grammatical structures. Further development of student understanding of the Spanish way of life is pursued. Spanish II is designed to fulfill one half of the NYS Syllabus Checkpoint B requirements.

Course Name: Spanish III

Course Status: Elective

Credit: 1

Prerequisite: Spanish II

Grade Level: 10

Course Level: General

Multiplier 1.00

Description: As the continuation of Spanish II, extensive practice toward the mastery of the four skills of listening, speaking, reading, and writing is maintained.

Class is conducted in the target language emphasizing cultural and grammatical topics in accordance with Checkpoint B requirements. Students will take a final assessment at the end of this course.

Course Name: Spanish IV/V Honors

Course Status: Elective

Credit: 1

Prerequisite: Spanish 4H: successful completion of Spanish 3 Spanish 5H: successful completion of Spanish 4H

Grade Level: 11/12

Course Level: Honors

Multiplier 1.04

Description: This course will expand on improving the listening, reading, writing and speaking skills, as well as culture in the Spanish-speaking world. Emphasis is placed on students learning through language acquisition, which consists of reading books, articles, discussion and active participation. Ninety percent or more of the class will be conducted in Spanish.

SOCIAL STUDIES

Course Name: Global History & Geography 1

Course Status: Required

Credit: 1

Grade Level: 9

Course Level: Regents

Multiplier:1.00

This course begins a two-year program in global history with a chronological approach to the study of Africa, The Middle East, South Asia, East Asia, Southeast Asia, Latin America and Europe. It is designed to cultivate in students the knowledge, skills, and attitudes needed to function within a global perspective marked by cultural diversity and diffusion. Students will start with the Early Civilizations of the World and end this year with The Age of Exploration. Within these areas the students will study geography, history, political science, economics, the fine arts and issues that illustrate the dynamics of change. Each student is required to maintain a well-organized notebook and to complete all assigned work.

Course Name: Global History & Geography 2

Course Status: Required

Credit: 1

Prerequisite- Global History & Geography 1

Grade Level: 10

Course Level: Regents

Multiplier:1.00

Global History II includes the study of Africa, the Middle East, South Asia, East Asia, Southeast Asia, Latin America and Europe from 1800 to present. It is designed to cultivate in students the knowledge, skills, and attitudes needed to function within a global perspective marked by cultural diversity.

Students will study geography, history, political science, economics, the fine arts, and contemporary issues that illustrate the dynamics of change. Each student is required to maintain a well-organized notebook and to complete all assigned work.

Topics to be covered include geography, history, dynamics of change, economic developments and contemporary issues.

Requirements include textbook and selected reading materials, outside research, oral reports and examinations. All students must successfully pass the Regents examination in order to graduate.

Course Name: United States History & Government

Grade Level: 11

Course Status: Required

Course Level: Regents

Credit: 1

Multiplier: 1.00

Prerequisite- Global History 1 and 2

The history of the United States is the history of a great experiment in democracy. Knowledge and function of American government, learning about the basic principles and cultural heritage upon which our nation is founded, plus a core program of Thirteen Enduring Constitutional issues are highlights in this course. At the completion of the 11th grade course, all students take the Regents Examination in United States Government.

Course Name: Economics & Participation in Government

Grade Level: 12

Course Status: Required

Course Level: Regents

Credit: 1

Multiplier: 1.00

Prerequisite- Global History I & II and US History and Government

The ECONOMICS section focuses on the study of the distribution of resources, economic theory and the American Economic System. Assessments and assignments stress analysis and writing skills. In addition, each student completes a long-term project and a research paper. GOVERNMENT surveys how our government works. In PARTICIPATION IN GOVERNMENT students will study the various functions and types of government.

Students will also explore several national issues. Assessments and assignments stress analysis and writing skills. In addition, each student completes a long-term project and a research paper.

Course Name: AP Government/DCC College Connection

Grade Level: 12

Course Status: Required

Course Level: AP

Credit: 1

Multiplier: 1.06

Prerequisite- Teacher recommendation based on the AP/HONORS Recommendation Guide

This course gives students an analytical perspective on government and politics in the US. It includes study of the general concepts and analysis of specific examples. It also studies institutions, groups, beliefs and ideas that constitute US politics. Students will earn 3 credits in Gov 121. *ECONOMICS*: The Economics Section focuses on the study of the distribution of resources, economic theory and the American Economic System. Assessments and assignments stress analysis and writing skills. In addition, each student completes a long-term project and a research paper.

Students are required to sit for the AP exam in May.

Course Name: AP United States History

Course Status: Required

Credit: 1

Prerequisite- Global I, Global II/AP Euro & teacher recommendation based on the AP/HONORS Recommendation Guide.

Grade Level: 11

Course Level: AP

Multiplier: 1.06

AP US History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and challenges in US history. The course prepares students for advanced college courses in history by making demands upon them equivalent to those made by full-year introductory courses.

Students learn to assess historical materials – their relevance to a given problem, reliability, and importance - and to weigh the evidence and interpretations presented in historical scholarship.

Students will prepare to take the AP exam in May by reviewing objective questions as well as writing free response and document based essays. In June, students will also take the New York State Regents exam in US History and Government. Students are required to sit for the AP examination in May.

Course Name: AP World History

Course Status: Required

Credit: 1

Prerequisite- Teacher recommendation based on the AP/HONORS Recommendation Guide

Grade Level: 10

Course Level: AP

Multiplier: 1.06

This course will study the cultural, economic, political and social developments that have shaped the world from 1200 to the present in a college-like environment. Students will analyze texts, visual sources and other historical evidence and write essays expressing historical arguments. This course is specifically designed to provide students with an in-depth study of World History from the 13th century through the modern day. In addition to course content, the course is specifically designed to enhance student analytical reading and essay writing skills. This course is centered on a more thematic approach and aligns well with the Global 10 history curriculum for NY state

PROJECT LEAD THE WAY RIT College Connection Courses

Course Name: Introduction to Engineering/Design and Drawing

Course Status: Elective

Credit: 1

Prerequisite- Recommendation from the 8th grade team

Grade Level: 9

Course Level: Honors

Multiplier: 1.06

This is a one-unit course which emphasizes creative problem, designing, and computer-aided drawing. The course reflects the approach used in business and industry to develop new products. Students will develop solutions to various design or product problems and proposed solutions are researched, sketched, refined, and rendered as drawings. Basic elements of design and technical drawings are covered. This course may be used to satisfy the art requirement.

Students must take and pass a required examination from RIT to receive 3 college credits. Please see page 11 for specific registration procedures to receive credit from RIT.

Course Name: Principles of Engineering

Course Status: Elective

Credit: 1

Prerequisite- Design & Draw and teacher recommendation based on the AP/HONORS Recommendation Guide

Grade Level: 10

Course Level: Honors

Multiplier: 1.04

This course provides an overview of engineering and engineering technology. It explores the different specialties of engineering, the design process, and the principles of different engineering systems including: mechanisms; thermodynamics; fluid systems; electrical systems and control systems; the strength of materials and how they relate to the manufacturing process, engineering for reliability, and kinematics.

Students must take and pass a required examination from PLTW to receive 3 college credits.

Course Name: Civil Engineering/Architecture

Course Status: Elective

Credit: 1

Prerequisite- Design & Draw, Principles of Engineering, Digital Electronics & teacher recommendation based on the AP/HONORS Recommendation Guide

Grade Level: 11

Course Level: Honors

Multiplier: 1.04

The major focus of the Civil Engineering and Architecture (CEA) course is a long-term project that involves the development of a local property site. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The CEA course is intended to serve as a specialization course within the Project Lead The Way sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of both fields; civil engineering and architecture. Students work in teams, exploring hands-on projects and activities to learn the characteristics of these two fields.

In addition, students use Rivet, which is a state of the art computer-aided design software package from AutoDesk, to help them design solutions to solve their major course project. Students learn about documenting their project, solving problems, and communicating their solutions.

The course of study includes: the roles of civil engineers and architects; project planning; site planning; building design; project documentation and presentation.

Students must take and pass a required examination from PLTW to receive 3 college credits.

Course Name: Digital Electronics

Course Status: Elective

Credit: 1

Prerequisite- Principles of Engineering, Design and Draw, Civil Engineering

Grade Level: 12

Course Level: Honors

Multiplier: 1.06

This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

STUDENT SUPPORT CLASSES

ENGLISH AS A SECOND LANGUAGE 1 credit

Courses in English as a Second Language provide speakers of other languages instruction in listening, speaking, reading, and writing with the purpose of developing cognitive academic language proficiency. The ESL program endeavors to prepare students for academic coursework in English in all content areas. Additionally, the ESL program provides students opportunities to access scholastic and extracurricular programs at the Millbrook High School in an effort to maintain students' native cultural identity and to encourage their participation in a range of academic and social experiences.

The ESL program seeks to create a safe, nurturing environment for English language learners (ELLs) throughout their high school career. In order to help build connections between ELLs and their new community, the ESL program provides structured opportunities for ELLs to interact with other high school students, faculty, social workers, and counselors during and after the school day.

LEARNING CENTER

The Learning Center supports students who are struggling with the core curriculum. Students may be assigned to the Learning Center based on their academic needs as determined by members of the Response to Intervention Committee. Students receive individualized or small group instruction designed to maximize their learning. Individual learning styles and differentiation are taken in to consideration when planning intervention strategies for students.

SPECIAL EDUCATION SERVICES

RESOURCE ROOM

Resource Room is designed to support students in successfully achieving individualized goals. Instruction is targeted to meet the specific needs of each student and can be administered one to one or in a small group setting.

DUTCHESS BOCES CAREER & TECHNICAL INSTITUTE

2025-2026 COURSE OFFERINGS

Construction Trades I & II

This two-year program is designed to provide 11th and 12th grade students with training in jobsite and shop safety, knowledge of personal protective equipment and OSHA regulations. Students will gain experience working with various hand tools, power tools and construction materials. In addition to the theory and practical experiences the student will receive working in and around the CTI campus; field trips, internships and guest speakers will supplement the course. Within an atmosphere of discipline and attention to detail, rigorous academics will integrate construction practices and job readiness instruction with career literacy, trade-related mathematics, and hands-on skill-building activities. Students complete their high school education while being exposed to the various aspects of a career in the construction trades and receive training to apply for, interview for and retain employment. An emphasis is placed on customer service, communication skills and work ethics, helping students become better prepared to approach their future as critical thinkers and responsible citizens.

Academics: Career literacy and math are integrated into Construction Trades I and II.

College articulation agreements: Alfred State - School of Applied Technology

Trade Electricity I & II

This program provides students entry level skills in construction electricity. Courses emphasize job safety, electrical theory, electrical calculations, work ethic, proper tool use and exposure to professional opportunities within the trade. First year focus is on residential installations, followed by second year directed at commercial and industrial installations and include electrical theory, safety/OSHA job-site regulations, commercial/industrial wiring methods, circuit loading calculations, hand & power tool usage, service entrance installation/calculations, and introduction to electric motors/controllers.

Academics: Career literacy, math and science are integrated into Trade Electricity I and II.

College articulation agreements: Dutchess Community College

Heating, Ventilation and Air Conditioning

Students learn to install, repair and maintain residential and commercial heating and cooling systems.

Academics: Career literacy, math and science are integrated into Heating, Ventilation and Air Conditioning.

College articulation agreements: Sheet Metal Workers Union, Local 38 (Advanced Standing in their training program) Dutchess Community College, SUNY Delhi

Computer Networking and Cybersecurity

This one-year program in Networking+ Computer Training is designed to provide the student with the technical knowledge and skills required for an entry-level position in the information and computer technology career field.

The program will participate in the NYS Career Exploration and Internship Program [CEIP]. The course will prepare you to take the TestOut Network Pro and CompTIA Networking+ Certification Examination.

Academics: Career literacy and math are integrated into Computer Networking and Cybersecurity.

College articulation agreements: Columbia-Greene Community College, SUNY Canton

Computer Hardware

This 1-year program in Computer Hardware Technology Technician is designed to provide the student with the technical knowledge and skills required for an entry-level position in the information and computer technology career field. The program will participate in the NYS Career Exploration and Internship Program [CEIP]. The course will prepare you to take the TestOut PC Pro and CompTIA A+ Certification Examinations. Prerequisite: Math Course A.

Academics: Career literacy and math are integrated into Computer Networking and Cybersecurity.

College articulation agreements: Columbia-Greene Community College, SUNY Canton

Careers in Animal and Plant Sciences I

Students cultivate an understanding of the diverse and profitable fields of agriculture. A wide variety of topics are covered including plant and animal biology and technology, leadership skills, college and career exploration, and career skills development. The program emphasizes hands-on, head-on and hearts-on learning with on-site projects, public speaking events, work placements; and in a typical year, guests speakers and related field trips to businesses, organizations, colleges, and industry events in high-quality, rigorous, challenging context. In the first year, students focus on five animal science and five plant science careers including Veterinary Technician, Wildlife Manager, Animal and Plant Producer, Floral Designer, Arborist/Tree Climber, Animal and Plant Research Scientist, Landscape Architect, Agriculture Business Manager, and Animal Trainer.

Careers in Animal and Plant Sciences II

In the second year, students apply to colleges, design and run a year-long research project, and work at off-site placements in a real-world context. All students are FFA members which connects young agriculturalist to others like them and industry professionals around the nation. Opportunities in leadership, competitions, awards and travel are available to members.

Academics: Career literacy, math and science are integrated into Careers in Animal and Plant Sciences I and II.

College articulation agreements: SUNY Cobleskill, SUNY Ulster, Dutchess Community College

Security and Law Enforcement I

The first year of the program is designed as an introduction to the field of criminal justice, covering the components of the criminal justice system (police, courts, corrections), the interactions of these components through the steps in the criminal justice process, as well as the constitutional requirements of due process of law. Students will become familiar with the law, specifically the New York State Penal Law, the Criminal Procedure Law, and the Vehicle and

Traffic Law. Students will also be exposed to controversial topics, such as search and seizure, use of force and police defensive tactics. Students will receive a realistic introduction to the popular subject of crime scene investigation. Students will finish the year by demonstrating their knowledge and skills through realistic scenario-based training.

Security and Law Enforcement II

The second year of the program begins with an introduction to criminology, including crime reporting, theories of crime and crime causation. After a brief examination of juvenile delinquency, the focus of the program shifts heavily to the investigation of various types of crimes. Finally, the emphasis of the second year leads to the field of security, including terrorism, threat assessment, as well as crime prevention. Students will have the opportunity to complete training and obtain certifications in CPR and First Aid, an Introduction to the National Incident Management System, an Introduction to the Incident Command System, and both the Pre-Service (8-hour) and In-Service (16-hour) New York State Security Guard Training.

Academics: Career literacy, science and physical education are integrated into Security and Law Enforcement I and II.

College articulation agreements: Herkimer County Community College, Columbia-Greene Community College, Dutchess Community College

Graphic Arts & Design I

Students enrolled in the Graphic Arts & Design program will develop skills and workplace competencies while exploring the many facets of creative communication careers. Students use a hands-on learning approach using the Adobe Suite of creative software where the emphasis is placed on problem-solving skills and communication techniques. As part of the graduation requirement, all students develop and create projects that will be part of a portfolio used in seeking employment or college acceptance. The majority of the work done is project-based. In year one, students will be introduced to design terms and concepts where they will learn and use Adobe Illustrator, Photoshop and InDesign to make projects that utilize these concepts. Students also have the opportunity to become Adobe Certified in these programs. They will also learn to use digital tools on drawing pads to create their designs. Students also gain work-based learning hours and credit while working with clients, both with their peers and actual clients from the outside.

Graphic Arts & Design II

In year two, students will build upon what they learned in year one with an emphasis on solving more complicated design tasks. Students will continue to work on projects with greater complexity as they build their skill set and confidence in what they create. They also have opportunities for exploration and developing their creative interests as they build portfolios.

Academics: 1/2 credit Career Literacy/English and Math are integrated into Graphic Arts & Design I and II for the full credit. Large group critiques and presentations are part of the Career Literacy integration.

College articulation agreements: Dutchess Community College, College of Westchester

TV and Film Production I & II

This course introduces students to the basics of film production and will help students develop a solid foundation in the three phases of production (Pre-Production...scripts, storyboards etc...Production..."Action"...and Post Production...editing, voice overs etc.). In addition, students will develop skill and workplace competencies while exploring the production job market. TV/Video students will gain an understanding of how films and television shows are constructed, technically as well as thematically. Students will be introduced to the basic "building blocks" and formal elements of production (narrative, lighting, cinematography, sound, editing) that make up the film as well as some fundamental principles of analysis, genre, style, performance and storytelling.

Academics: Career literacy and math are integrated.

College articulation agreements: Five Towns College, College of Westchester, Dutchess Community College

Welding and Fabrication I

The Welding and Fabrication I course is the first year of a two year program that is geared toward entry level welding and fabrication using various welding techniques on carbon, stainless steel, and aluminum. The first year welding program will provide the students with all of the safety knowledge and basic skills to work in a shop environment both safely and efficiently preparing them for the second year and completion of the program.

Welding and Fabrication II

The Welding and Fabrication II course is the second year of a two year program that is geared toward advanced level welding and fabrication using various welding techniques on carbon, stainless steel, and aluminum. The second year welding program will provide the students with all of the advanced skills and confidence needed to join the welding workforce including resume writing and job interview preparation.

Academics: Career literacy and Science.

College articulation agreements: SUNY Delhi

Early Childhood Education I

The program in the junior year involves students in early childhood philosophies and integrates hands-on experiences. Students are encouraged to be leaders of their learning as they actively engage in discussions centered around developmentally appropriate practices, professional standards and competencies, and codes of ethical conduct. In addition, students will engage in collaborative teamwork, public speaking, and math and ELA coursework. Some core practices involve developing lesson plans, designing classroom environments and building their pedagogical knowledge in early childhood.

Early Childhood Education II

In the senior year, the early childhood students will focus on deepening their career readiness to become highly effective early childhood educators. The program will assist students with defining and demonstrating their role in the field as early childhood educators. In conjunction with continuously reviewing professional standards and competencies, codes of ethical conduct, and current state licensure, students will be developing their teaching philosophies

guided by educational theories and practical teaching applications. In the second year, the academic practices involve observing, recording, and examining students' development, evaluating children's books and shows, leading classroom reading and small group activities, and developing their professional portfolios.

Academics: Career literacy and math are integrated into Early Childhood Education I and II.

Cosmetology I

Cosmetology I is the first year of a two-year program in which students have the opportunity to achieve 500 hours. This part of the course provides foundational training necessary for the development of basic Hand manipulative skills, safety judgements, proper work habits, and professional attributes necessary to achieve competency for entry-level job skills.

Cosmetology II

Cosmetology II is the second year of a 2 year program in which students have the opportunity to achieve 500+ hours. This part of the course builds off of the foundational training necessary to continue to develop hand manipulative skills, safety judgements, increase proper work habits, and professional attributes necessary to achieve competency for achieving and acquiring an entry-level position. The students will more thoroughly develop their foundational skills through practical drill experience and project based learning. At the end of this year, student will be eligible to apply for the New York State Licensing Exams in order to obtain their license.

Academics: Career literacy and science are integrated into Cosmetology I and II.

College articulation agreements: Fulton-Montgomery Community College, Dutchess County Community College

Fashion Design and Merchandising

Fashion Design & Merchandising is a two-year program which offers instruction and practical experience in the skills and theory necessary to be employed within the fashion design and merchandising industry. Students will have the opportunity to learn and practice different functions of the merchandising process, including the development of buying plans, promotional materials, events and sales strategies for multiple retail channels. Students will develop visual research skills through applied design principles, and creativity to select appropriate fabrics for the construction of garments by editing and balancing a ready-to-wear collection. Students will develop their skills through visual, technical, digital and verbal presentations.

Academics: Career Literacy and Math are integrated into Fashion Design and Merchandising.

College articulation agreements: Dual Enrollment in FASH 100 at Marist College; Dutchess Community College

Esthetics

Upon successful completion of the 600-hour Esthetics program, students will be prepared to take the NYS Esthetics Licensing Exam and for a career in the field of skin care. The course provides many more hours in areas such as lash extensions, makeup, and hair removal. Students can take the waxing exam after the first year provided they are 17 years of age.

Students will develop knowledge of anatomy and physiology, skin physiology, infection control, disorders and diseases of the skin, skin care product chemistry, and chemistry and chemical safety. These topics are just a sampling of the 23 chapters covered in the course. Hands-on, practical learning will include basic facials, European facials, specialty facials, body treatments, back treatments, foot and leg treatments and waxing/hair removal.

Academics: English and Science