

Our Lady of Lourdes

HIGH SCHOOL, POUGHKEEPSIE, NY

CURRICULUM GUIDE

2023-24



Our Lady of Lourdes High School

Accredited by the Middle States Association of Colleges and Schools

April 2023

Dear Student & Parents/Guardian:

Our Course Selection booklet is designed to provide you with our school's course selection policy, diploma requirements and course offerings. I encourage you to carefully read the material presented in this booklet, particularly the prerequisite criteria as you chart a course of study for next year and future years. ***The process of selecting courses for sophomores and juniors initiates with teacher recommendations where students are placed in potential courses for the next year based on course prerequisites and current performance.*** Freshmen students are on a pre-designed course selection path which requires discussion and direction from their guidance counselor and teachers.

We understand that making course choices is exciting, challenging and sometimes difficult. We urge you to make responsible selections that include a realistic evaluation of your ability, potential, and needs. Conversations with teachers, guidance counselors, Department Coordinators, parents and fellow students who are currently taking courses that interest you will serve as good resources. Honest calculations of your time and ability may factor into your decisions as well. Please know that once you make your decisions and your courses have been selected and approved through the course selection process, you will be committed to your decision.

We are thrilled to offer our upperclassmen an array of twenty five AP and College courses. We believe these types of options provide our students with an opportunity to broaden their knowledge and allow them to explore new opportunities in their education process. These courses also offer the student and parent cost saving possibilities as they present an opportunity to earn college credits. In addition to our traditional course offerings, please note courses and programs such as the Marist Greystone Program, and the Champagnat Learning Center.

Lourdes considers the partnership between the administration, faculty, students, and parents a vital component to achieving academic success. We are here to offer you the best path to meet your goals and prepare for your future in college and beyond.

Please contact your school counselor or my office for further information on these programs. We look forward to seeing you in the fall and continuing our proud Lourdes tradition as a vibrant Catholic High School preparing our students for college.

Michael Krieger
Assistant Principal for Academic Affairs
Class of '75

CONTENT

ACADEMIC REQUIREMENTS	3
POLICY AND GUIDELINES.....	4 - 5
REQUIRED CREDITS BY YEAR LEVEL.....	6 - 9
ELECTIVE CREDIT COURSES.....	10

DEPARTMENTS

BUSINESS/COMPUTER SCIENCE	11
ENGLISH	13
FINE ARTS.....	17
L.O.T.E. (Language Other Than English)	21
MATHEMATICS	25
PHYSICAL EDUCATION	29
THEOLOGY	31
SCIENCE.....	33
SOCIAL STUDIES	40
CHAMPAGNAT LEARNING CENTER.....	47
MARIST COLLEGE -GREYSTONE PROGRAM	47

ACADEMICS

GENERAL ACADEMIC REQUIREMENTS 2023– 2024

- Freshmen and sophomores must take and pass 7 course credits each year.
- Juniors must take and pass 6 course credits. A junior electing to take 7 course credits must pass all 7.
- Seniors must take and pass a minimum of 6 course credits. A senior electing to take more than 6 course credits must pass all subjects taken.
- It is the student's responsibility to check with his/her guidance counselor to ensure that the necessary academic requirements for graduation are being fulfilled.

GRADUATION REQUIREMENTS – 2024

OLL REGENTS DIPLOMA

Required Credits

Religion	4
English	4
Social Studies	4
Math	3
Science	3
World Languages	1
Fine Arts	1
Health	.5
P.E.	2
Sequence/Electives	2.5

TOTAL 25

Required OLL Regents Exams

English Language Arts
Regents Math
Regents Science
Regents Social Studies

OLL REGENTS DIPLOMA

WITH ADVANCED DESIGNATION

Required Credits

Religion	4
English	4
Social Studies	4
Math	3
Science	3
World Languages	3
Fine Arts	1
Health	.5
P.E.	2
Sequence/Electives	2.5

TOTAL 27

Required OLL Regents and Exams

English Language Arts
Regents Algebra I
Regents Geometry
Regents Algebra II
Regents Global History and Geography
Regents U.S. History
Regents Physical Science
Regents Life Science
Final Exam Spanish 3

A score of 65 or better must be achieved on all NYS Regents Examinations. All Regents exam exemptions will be applied.

COURSE SELECTION POLICY and GUIDELINES

Achieving an Our Lady of Lourdes High School Diploma, and a New York State Regents Diploma or Advanced Regents Diploma requires students and parents to carefully plan a course of study that accommodates individual's goals for each year of their secondary education and the years following graduation. One of Lourdes mandates as a college preparatory school is to urge our students to select the most challenging courses with the goal of advancing to higher education and keeping in mind a realistic evaluation of ability, potential, and needs.

Our process calls for both parents and students to give appropriate deliberation to the placement recommendations provided by teachers, guidance counselors and administration. Emphasis placed on understanding the requirements and demands of each course will serve the student well. Conferences and discussions with administration, faculty and counselors are strongly encouraged.

Students who contemplate registering and enrolling in Advanced Placement or Dual Enrollment College courses need to consider the demands and workload of a college-level curriculum. Academic success in these courses is determined not only by work performed in the class setting but the completion of assignments beyond class time. Our AP courses may commence in late August and summer assignments are often included in a prerequisite for many of our College level classes. Students should consider these challenging courses if they are cognizant of the time, commitment and prerequisites required to obtain success. College courses also carry a fee.

The finality of a student's choices in courses for the upcoming school year may change due to a number of factors including the final grade in a course, changes in school/course enrollment, scheduling conflicts and faculty availability.

Once registration of courses has been completed and processed for the following year, students and parents will receive a letter listing their choice of courses. Students, parents and guidance counselors will sign the letter acknowledging the collaborative effort and agreement. **Students will be discouraged to withdraw from ANY course that has been selected and approved through the course selection process.**

Student's schedules are issued in the fall during Orientation Week. Orientation week provides the opportunity for a student to resolve issues or questions regarding the upcoming year's schedule with the student's guidance counselor. **No changes will be made to students' schedules at the start of the school year unless deemed necessary by the school counseling office and confirmed by the Office of Academic Affairs.**

Students and parents are asked to consider and follow these guidelines:

- Carefully review the course descriptions and note any prerequisites for courses
- Realistically evaluate your abilities and potential
- Consult with parents, teachers and counselors
- Check graduation and diploma requirements
- Sign the course selection letter
- Return the signed course selection form to homeroom on the date designated

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

WEIGHTED COURSE GRADES

The weighted grading system acknowledges those students who excel in scholarship and who are enrolled in more difficult subjects. The weighting system assigns a factor to the raw grade in each subject when final averages are computed.

<u>Course Designation</u>	<u>Weight</u>
Regents/General	1.00
Honors	1.03
College	1.04
Advanced Placement	1.06

ELECTIVE COURSES

Elective courses are not required for graduation; however they give students an opportunity to engage in disciplines for exploring their own interests. A wide variety of elective courses are available for upperclassmen. Be sure to refer to the course descriptions to review the grade levels at which elective courses may be requested. Some are semester courses worth one-half (0.5) credit; others are full-year one (1.0) credit courses. Students should make sure they carefully take into consideration the description of the course, interest in the course, the ability to pursue the work, and the relevance to future plans. Students are encouraged to consult with their guidance counselor and parent(s) before they choose an elective. The school administration reserves the right to establish the minimum and maximum class size for a course designated as an elective.

ADVANCED PLACEMENT (A.P.) COURSES

The Advanced Placement Program offers qualifying students an opportunity to challenge themselves by offering rich course material, classroom discussions and demanding assignments designed to develop their critical thinking skills and content masters. AP students are exposed to curriculum that they might otherwise not encounter in high school. Due to the rigorous nature, AP courses are assigned a weighted grade point. Each AP course has a corresponding AP Exam that is administered in May. Students who pass Advanced Placement exams may earn advanced standing or college credit when they enroll in a university. Students may elect a maximum of two (2) A.P. courses unless approved for more by their Guidance Counselor and the Assistant Principal for Academics. Students should be aware that **our AP courses may commence in August and may include summer assignments**. Once accepted into an A.P. course, students **may not drop that course and must sit for the associated AP exam**.

COLLEGE LEVEL (DUAL ENROLLMENT) COURSES

College level courses offer qualifying students the option to earn college credits while completing regular school studies. Students can study subject matter which may not otherwise be available to them. Due to the rigorous nature of a College class, a weighted grade point is awarded. Prerequisites must be met in order for a student to request a college level course. Credits earned may be applied to degree programs at Mount St. Mary's College or may be transferred to other colleges or universities. College and university admissions departments may look favorably on students who take more challenging programs. Students should be aware that once accepted into a dual enrollment course, they may not drop that course.

HONORS COURSES

Honors Courses are developed to meet the needs of talented students. An Honors class parallels the curriculum offered in the corresponding regular class, but may cover additional topics or some topics in greater depth. Honors courses may be organized as separate classes, or as extra projects or seminars supplementing a regular course. Due to the challenging nature of an Honors class, a weighted grade point is awarded. Each Honors class has its own different prerequisites and criteria for enrollment.

REQUIRED CREDITS BY YEAR LEVEL- SENIORS

Seniors must take and pass **6** credits. The required credits are as follows:

<u>Subject</u>	<u>Credits</u>
English	1
* Health	0.5
Phys Ed	0.5
Religion	1
PIG	0.5
Economics	0.5
Electives	2.5 to 3.5

Courses listed below specify required course choices for seniors in each subject. Course prerequisites determine each student's selection. The Religion credit will be awarded by enrolling in two of the listed electives. Seniors must also choose either PE 12 or Strength Training/Personal Fitness.

English credit will be awarded by enrolling and satisfactorily completing College English.

Credit may also be issued by enrolling and satisfactorily completing **World Materpieces AND** one of the following courses: Introduction to College Writing, Sports Literature, College Public Speaking, Science Fiction- the Dystopian Novel

<u>Subject</u>	<u>Course Title</u>	<u>Number</u>	<u>Term</u>	<u>Level</u>	<u>Credits</u>
English -	College English	015	Full Year	College	1
	College Public Speaking	018	Semester	College	0.5
	Introduction to College Writing	032	Semester		0.5
	World Masterpeices	039	Semester		0.5
Phys Ed -	PE 12	404	Semester		0.5
	Into to Strength Training, Conditioning	411	Semester		0.5
	Advanced Strength Training, Conditioning	412	Semester		0.5
	Foundations of Movement and Meditation	415	Semester		0.5
	Modern Dance	412	Semester		0.5
Religion -	Church History	510	Semester		0.5
	Christian Themes in Literature and Film	520	Semester		0.5
	Christian Marriage and Family	507	Semester		0.5
	Miracles	523	Semester		0.5
Soc. Studies -	PIG Regents	711	Semester		0.5
	Economics Honors	712	Semester		0.5
	Economics Regents	713	Semester		0.5
	College Government	728	Semester		0.5
Electives -	must take at least 2.5 credits and no more than 3.5 credits				
	* mandatory if not completed by senior year				

REQUIRED CREDITS BY YEAR LEVEL- JUNIORS

Juniors must take and pass 6 credits. The required credits are as follows:

<u>Subject</u>	<u>Credits</u>
English	1
Health	0.5
Math	1
Phys Ed	0.5
Religion	1
Science	1
Social Studies	1
Electives	1

Below is a list of required course choices for juniors in each subject. Course prerequisites will determine each student's selection.

<u>Subject</u>	<u>Course Title</u>	<u>Number</u>	<u>Term</u>	<u>Level</u>	<u>Credits</u>
English -	English 11 Honors	005	Full Year		1
	English 11 Regents	006	Full Year		1
	AP English Language	026	Full Year	AP	1
Health -	Health	406	Half Year		0.5
Math-	Algebra II (H)	331	Full Year		1
	Algebra II	332	Full Year		1
	Pre-Calculus	326	Full Year		1
	College Pre-Calculus	327	Full Year		1
	Elementary Statistics	319	Full Year		1
	AP Statistics	320	Full Year		1
Phys Ed -	PE 11	403	Half Year		0.5
Religion -	Understanding The Scriptures - New Testament	502	Full Year		1
Science -	Physics Honors	605	Full Year		1
	Physics Regents	606	Full Year		1
	Earth Science Regents	607	Full Year		1
	Chemistry Regents	604	Full Year		1
	AP Chemistry	609	Full Year		1
	AP Physics I	618	Full Year		1
	AP Biology	611	Full Year		1
	AP Environmental Science	613	Full Year		1
Soc. Studies -	US History Honors	705	Full Year		1
	US History Regents	706	Full Year		1
	AP US History	707	Full Year		1
Electives -	May take up to 1 credit				

REQUIRED CREDITS BY YEAR LEVEL- SOPHOMORES

Sophomores must take and pass 7 credits. The required credits are as follows:

<u>Subject</u>	<u>Credits</u>
English	1
Fine Arts	0.5
LOTE	1
Math	1
Phys Ed	0.5
Religion	1
Science	1
Social Studies	1

Below is a list of required course choices for sophomores in each subject. Course prerequisites will determine each English 10 Honors

<u>Subject</u>	<u>Course Title</u>	<u>Number</u>	<u>Term</u>	<u>Level</u>	<u>Credits</u>
English -	English 11 Honors	003	Full Year		1
	English 11 Regents	004	Full Year		1
Fine Arts -	Concert Band	101	Half Year		0.5
	Wind Ensemble	102	Half Year		0.5
	Studio Art II	105	Half Year		0.5
	Select Chorus	110	Half Year		0.5
	Mixed Chorus	111	Half Year		0.5
	Studio Art II Honors	115	Half Year		0.5
LOTE	Spanish 2 Honors	203	Full Year		1
	Spanish 2	204	Full Year		1
	Italian 2 Honors	213	Full Year		1
	Italian 2	214	Full Year		1
Math	Geometry Honors	321	Full Year		1
	Geometry Regents	322	Full Year		1
	Algebra II (H)	331	Full Year		1
	Algebra II	332	Full Year		1
	Algebra I	328	Full Year		1
Phys Ed -	PE 10	402	Half Year		0.5
Religion -	Understanding The Scriptures - New Testament	502	Full Year		1
Science -	Chemistry Honors	603	Full Year		1
	Chemistry Regents	604	Full Year		1
Soc. Studies -	Global II Honors	703	Full Year		1
	Global II Regents	704	Full Year		1

REQUIRED CREDITS BY YEAR LEVEL- FRESHMEN

Freshmen must take and pass 7 credits. The required credits are as follows:

<u>Subject</u>	<u>Credits</u>
English	1
Fine Arts	0.5
LOTE	1
Math	1
Phys Ed	0.5
Religion	1
Science	1
Social Studies	1

Below is a list of required course choices for freshmen in each subject. Course prerequisites will determine each student's selection.

<u>Subject</u>	<u>Course Title</u>	<u>Number</u>	<u>Term</u>	<u>Level</u>	<u>Credits</u>
English -	English 9 Honors	001	Full Year		1
	English 9 Regents	002	Full Year		1
Fine Arts -	Concert Band	101	Full Year		0.5
	Wind Ensemble	102	Full Year		0.5
	Studio Art I	104	Full Year		0.25
	Music Appreciation	137	Full Year		0.25
	Select Chorus	110	Full Year		0.5
	General Chorus	111	Full Year		0.5
LOTE	Spanish 1 Honors	201	Full Year		1
	Spanish 1	202	Full Year		1
	Spanish 2 Honors	203	Full Year		1
	Spanish 2	204	Full Year		1
	Italian 1 Honors	211	Full Year		1
	Italian 1	212	Full Year		1
	Italian 2 Honors	213	Full Year		1
	Italian 2	214	Full Year		1
Math	Introduction to Algebra I	305	Full Year		1
	Algebra I	328	Full Year		1
	Geometry Honors	321	Full Year		1
	Geometry Regents	322	Full Year		1
Phys Ed -	PE 9	401	Half Year		0.5
Religion -	Understanding The Scriptures - Old Testament	501	Full Year		1
	Christian Morality	503			
Science -	Biology Honors	601	Full Year		1
	Biology Regents	602	Full Year		1
Soc. Studies -	Global I Honors	701	Full Year		1
	Global I Regents	702	Full Year		1

ELECTIVE CREDITS BY DEPARTMENT

<u>Subject</u>	<u>Course Title</u>	<u>Number</u>	<u>Term</u>	<u>Level</u>	<u>Credits</u>
Business/ Computer Sci-	AP Computer Science Principles	354	Full Year	AP	1
	Introduction to Sports Management	355	Semester		0.5
	Video Game Programing and Design	357	Semester	General	0.5
	AP Computer Science Principles	354	Full Year	AP	1
	Business Foundations	358	Semester	College	0.5
	Introduction to Marketing	359	Semester	College	0.5
English -	College English	015	Full Year	College	1
	AP English Literature	010	Full Year	AP	1
	College Public Speaking	018	Semester	College	0.5
	Introduction to College Writing	032	Semester		0.5
	World Masterpeices	039	Semester		0.5
Fine Arts	AP Art	108	Full Year	AP	1
	Digital Photography	127	Semester	General	0.5
	Studio Art 3	135	Full Year	General	0.5
	Graphic Design	133	Semester	General	0.5
	Concert Band	101	Full Year		0.5
	Wind Ensemble	102	Full Year		0.5
	Select Chorus	110	Full Year		0.5
	General Chorus	111	Full Year		0.5
	Band Instrumental Basics	131	Full Year		0.5
World Languages	Spanish 3 H/R	205/206	Full Year	Regents	1
	AP Spanish	208	Full Year	AP	1
	College Spanish	210	Full Year	College	1
	Spanish through Media	227	Full Year	General	1
	Italian 3 H/R	220/221	Full Year	Regents	1
Math	College Calculus	316	Full Year	College	1
	AP Calculus	317	Full Year	AP	1
	College Statistics	319	Full Year	College	1
	AP Statistics	320	Full Year	AP	1
	Pre-Calculus	326	Full Year	General	1
	College Pre- Calculus	327	Full Year	College	1
	Applied Mathematics for College and Career Readiness	337	Full Year	General	0.5
	Introduction to Accounting	374	Full Year	General	0.5
Science	AP Chemistry	609	Full Year	AP	1
	Environmental Science	612	Full Year	Regents	1
	AP Environmental	613	Full Year	AP	1
	AP Biology	614	Full Year	AP	1
	Health Science Introduction	628	Semester	General	0.5
	Forensic Science	617	Semester	General	0.5
	AP Physics 1	618	Full Year	AP	1
	AP Physics 2	619	Full Year	AP	1
	Astronomy	621	Semester	General	0.5
	Human Anatomy and Physiology	622	Semester	General	0.5
	Introduction to Engineering	623	Semester	General	0.5
	College General Biology I & II	626	Full Year	College	1
Soc. Studies -	AP Psychology	717	Full Year	AP	1
	College Psychology	724	Semester	College	0.5
	College Sociology	726	Semester	College	0.5
	AP European History	727	Full Year	AP	1
	Intro to Criminal Justice	731	Semester	College	0.5

BUSINESS /COMPUTER SCIENCE

Course Name/#: **Introduction to Sports Management -355**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 11/12
Course Level: General
Multiplier: 1.00

Description: This course is designed to give students an overview of sport management in regards to a possible course of study in college and or a career in the business of sports. The course examines the scope of the sports industry and introduces students to the wide range of career opportunities in the field of sport management. Upon completion of the course, students should be able to identify, analyze, and understand issues affecting sport managers as they relate to management and economics

Course Name/#: **Video Game Programming and Design - 357**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 11/12
Course Level: General
Multiplier: 1.00
Fee: \$50.00

Description: This semester course will explore the tools and techniques for creating video games. The course will cover both 2 dimensional and 3 dimensional video games. Students will learn how to use various programs to create artwork, 3 dimensional objects, music, sound effects, and write computer code. No prior skill or artistic ability is required, but students must be driven to learn and experiment.

Course Name/#: **Advanced Placement Computer Science Principles – 354**
Course Status: Elective
Credit: 1
Fee: \$250.00

Grade Level: 11/12
Course Level: **A.P.**
Multiplier: 1.06

Prerequisite: Completion of Algebra and Geometry an 85% average or better. A score of 85 or better on the NYS Regent Exams in both Algebra and Geometry.

Description: AP Computer Science Principles is not programming course nor a tour of current technologies, but instead offers a multidisciplinary approach to the underlying principles of computation. This course introduces students to overarching concepts of computer science and challenges them to explore how computing and technology can impact the world. There is no single designated programming language for the course; students will work primarily with Snap!, a visual programming language, to obtain an understanding of the common principles of programming. With a unique focus on creative problem-solving and real-world applications, students are introduced to the creative aspects of programming using algorithms and abstractions, data analysis, the Internet, and cybersecurity concerns. Students will be afforded the opportunity to use technology to address real-world problems and build relevant solutions. The course is rigorous in the AP standard and includes rich curriculum that aims to broaden participation in computer science. Additionally, the course encourages skill development among students considering a career in computer science or other STEM fields, focusing on the innovative aspects of computing, as well as the computational thinking practices that help students connect computing to many areas of their everyday lives. **All enrolled students must complete the two portfolio tasks during the school year and sit for the AP Computer Science exam in May.**

Course Name: **Business Foundations- 358**

Course Status: Elective

Credit: .5

Prerequisite: None

Grade Level: 11/12

Course Level: **College**

Multiplier: 1.04

Fee: \$75.00

Description: This course will provide the student with a foundational knowledge and understanding of the major aspects of business. Topics include an introduction to economic systems, forms of business ownership, legal aspects of business, management, marketing, financing and accounting, social responsibility, and career assessment. **Three undergraduate college credits are awarded** for this class through Mount St. Mary's College .

Course Name: **Introduction to Marketing - 359**

Course Status: Elective

Credit: .5

Prerequisite: None

Grade Level: 11/12

Course Level: **College**

Multiplier: 1.04

Fee: \$75.00

Description: A study of principles underlying the development and distribution of goods and services for organizational and consumer needs. Topics include: development of the marketing concept, legal and cultural environment, marketing research, segmentation, buyer behavior, product development, pricing, wholesaling, retailing, advertising, selling, and Internet applications.

Three undergraduate college credits are awarded for this class through Mount St. Mary's College .



Science



Technology



Engineering



Mathematics

ENGLISH

Course Name/#:	English 9 (H) - 001	Grade Level:	9
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	Grade of 90 % or better in eighth (8) grade English, National Percentile Rank of 75 or better on the TACHS exam and recommendation from their eighth (8) grade teacher. The performance level in the Elementary ELA exam may be used for placement.		

Description: This course is divided into four areas: literature, writing, vocabulary, and speaking. Students are expected to comprehend and interpret all genres of literature, communicate their written thoughts clearly, research information for expository and analytical papers, master library information skills, create visual displays, perform excerpts from literature, write creative pieces, and speak comfortably before the class. Students are also involved in enrichment activities which may include supplementary reading, writing and research projects. All students are engaged regularly in grammar and writing practice.

Course Name/#:	English 9 - 002	Grade Level:	9
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	Placement		

Description: This course is divided into four areas: literature, writing, vocabulary, and speaking. Students are expected to comprehend and interpret all genres of literature, communicate their written thoughts clearly, research information for expository and analytical papers, master library information skills, create visual displays, perform excerpts from literature, write creative pieces, and speak comfortably before the class. All students are engaged regularly in grammar and writing practice.

Course Name/#:	English 10 (H) - 003	Grade Level:	10
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	95 % or better average in English 9 <u>and</u> teacher recommendation		

Description: This course is divided into four areas: literature, writing, vocabulary, and grammar. The focus during this year is American Literature from Colonial Times to the Modern Age. Genres examined are essays, short stories, and selected poems. Students are expected to be able to comprehend and interpret all genres of literature, and to communicate their written and spoken thoughts clearly and cogently. Students will be expected to master various modes of writing including expository, persuasive, critical and analytical. Students are also involved in enrichment activities which may include supplementary reading, writing and research projects. All students are engaged regularly in grammar and writing practice.

Course Name/#:	English 10 - 004	Grade Level:	10
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	None		

Description: This course is divided into four areas: literature, writing, vocabulary, and grammar. The focus during this year is American Literature from Colonial Times to the Modern Age. Genres examined are essays, short stories, and selected poems. Students are expected to comprehend and interpret all genres of literature, and to communicate their written and spoken thoughts clearly and cogently. Students will be expected to master various modes of writing including expository, persuasive, critical and analytical. All students are engaged regularly in grammar and writing practice.

Course Name/#:	English 11 (H) - 005	Grade Level:	11
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	95% or better average in two <u>consecutive</u> years (English 9 & English 10) <u>and</u> teacher recommendation		

Description: This course is divided into four areas: literature, writing, vocabulary, and grammar. In the literature section, students are expected to read prose, poetry, and drama selections from the beginning of the British tradition through modern British literature. In the writing section, students are expected to master a variety of writing skills such as interpretation, analysis, and criticism, as they continue preparation for the NYS Common Core English Regents Exam which is given in June of this year. In anticipation of PSAT and SAT exams, students are also engaged in continued practice of vocabulary and grammar usage. Students are also involved in enrichment activities which may include supplementary reading, writing, and research projects. All students are engaged regularly in grammar and writing practice.

Course Name/#:	English 11 - 006	Grade Level:	11
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	None		

Description: This course is divided into four areas: literature, writing, vocabulary, and grammar. In the literature section, students are expected to read prose, poetry, and drama selections from the beginning of the British tradition through modern British literature. In the writing section, students are expected to master a variety of writing skills such as interpretation, analysis, and criticism, as they continue preparation for the NYS Common Core English Regents Exam which is given in June of this year. In anticipation of PSAT and SAT exams, students are also engaged in continued practice of vocabulary and grammar usage. All students are engaged regularly in grammar and writing practice.

Course Name/#:	Advanced Placement English Language - 026	Grade Level:	11
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$250.00 plus cost of textbook		
Prerequisite:	Honors English -two consecutive years, average of over 93% and teacher recommendation.		

Description: The AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. In the AP English Language and Composition course, students learn how to analyze, synthesize, and evaluate nonfiction texts: essays, biographies, speeches, sermons, and passages from writings in the arts, history, social science, politics, science, and other areas of study. Students learn to evaluate and construct arguments drawn from articles in newspapers, magazines, and online sources. The course explores visual media, including advertising and the Web. Students construct arguments drawn from their own observation, experience and reading; they learn to synthesize as a result of their own research opportunities; they learn to analyze arguments both for their appeal and for the contexts in which these arguments appear. **This AP course may require summer assignments to be completed. All enrolled students must sit for the AP English Language exam in May.**

English 12 Full Year Options

Course Name/#: **College English - 015**

Course Status: Elective

Credit: 1

Fee: **\$450.00 plus cost of textbooks**

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 85% or better in English 11 Honors level or AP Literature. Students who successfully complete the English 11 Regents level must possess an overall average of 95% overall or higher as well as receiving teacher recommendation.

Grade Level: 12

Course Level: **College**

Multiplier: 1.04

Description: This college English course is divided into two semesters. Composition I focuses on 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. Composition II is a continuation of Composition I with further study of the resources of the language through a critical analysis of imaginative forms of writing...Genre reading will include fiction, poetry, and drama.

Six undergraduate college credits are awarded for this class through Mount St. Mary's College.

English 12 Half-year Options

Course Status: All Seniors who do not take College English or AP English will be enrolled in **World Masterpieces and must choose one of the following to complete their English requirement:** College Public Speaking –018 or Intro to College Writing-032, Science Fiction- the Dystopian Novel- 022, or Sports in Literature. **Students must prioritize their English elective choices (1 through 3) and every effort will be made to accommodate those choices, however courses will be closed upon maximum enrollment.**

Course Name/#: **World Masterpieces– 039**

Course Status: Required

Credit: .5

Prerequisite: None

Grade Level: 12

Course Level: Regents

Multiplier: 1.00

Description: This course, which is based on the Common Core Curriculum Standards, is designed to prepare students for college by developing their abilities in English through the examination of literature and the study and application of composition strategies. Students will enhance their critical reading skills as they closely analyze a variety of classic and contemporary literature and informational articles employing many literary criticism techniques. The literature for this course will include, but not be limited to, Shakespeare's Hamlet, Fitzgerald's The Great Gatsby, Sophocles' Oedipus, Miller's "Death of a Salesman," and a selection of short stories and poems from across the world. This course will promote refinement of the writing process in several modes of discourse as well as a complete research paper.

AND (select ONE other course from the list below)

Grade Level: 12
Course Level: **College**
Multiplier: 1.04

OR

Grade Level: 12
Course Level: Regents
Multiplier: 1.00

FINE ARTS

ART

Course Name/#: **Studio Art 1 - 138**
Course Status: Elective
Credit: .25
Prerequisite: None

Grade Level: 9
Course Level: General
Multiplier: 1.00

Description: This is an introductory visual arts course that enables students to experience the creative process and express individual style while learning some basic practices, skills and techniques. Students will work with a wide range of media while learning about basic drawing and painting skills, 2-D and 3-D design techniques and the visual arts concepts associated with these activities. Through projects, readings, written descriptions and discussions students will learn to define the elements and principles of drawing and design and be able to express arts concepts accurately in the language of the visual arts domain. Students' creative experience will be enriched by learning about the sequence of periods and movements in the history of art. *This course runs for a single semester with **Music Appreciation - 137** as a companion course. All incoming freshmen will take Studio Art 1 and Music Appreciation in their first year before making the decision to move on to higher level fine arts courses of their choice (such as Studio Art 2) to fulfill the New York State Arts requirement.*

Course Name/#: **Music Appreciation- 137**
Course Status:
Credit: .25
Prerequisite: None

Grade Level: 9
Course Level: General
Multiplier: 1.00

Description: Music Appreciation is a course designed to explore the building blocks of music and how it has developed over the course of human history. Students in this course will learn to read and write music, participate in class discussions using music terminology, and develop and refine their understanding of pre-existing musical skills and knowledge. Students will also evaluate music through weekly class listening assignments that encompass a broad scope of musical genres throughout our history. Furthermore, students will gain an understanding of Digital Audio Workstation technology and its use and presence in creating and writing music today. *This course runs for a single semester with Studio Art as a companion course. All incoming freshmen will take Studio Art 1 and Music Appreciation in their first year before making the decision to move on to higher level fine arts courses of their choice (such as Studio Art 2) to fulfill the New York State Arts requirement.*

Course Name/#: **Studio Art 2 - 105**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 10
Course Level: General
Multiplier: 1.00

Description: This course continues the creative explorations begun in Art I. Having acquired some basic facility in the art room, students are encouraged to work more independently, to solve their own technical problems, and to make independent aesthetic choices using the elements and principles of drawing and design in order to express individuality and personal style. Students will continue to build their visual arts vocabulary enabling meaningful discussion of student projects as well as analysis of masterworks. Collaborative projects will enhance student learning while providing creative opportunities to practice 21st century life skills. Visual expression will be augmented by historical research with written explorations of essential questions applicable to the studio project. This course in combination with Studio Art I fulfills the New York State Arts Requirement.

Course Name/#: **Digital Photography - 127**

Grade Level: 11/12

Course Status: Elective

Course Level: General

Credit: .5

Multiplier: 1.00

Prerequisite: None

Fee: \$100.00

Description: This semester course introduces students to digital photography as a two-dimensional art form that combines traditional art methods with technology. The essentials of digital image making, digital camera techniques, basic photo-editing and alteration tools are stressed. Students will learn how to incorporate the elements and principles of design to create original photographic works of art. Students will explore methods that integrate the photographic print with other visual media. The course fee covers software and printing costs.

Course Name/#: **Graphic Design – 133**

Grade Level: 11-12

Course Status: Elective

Course Level: **General**

Credit: .5

Multiplier: 1.00

Fee: \$75

Prerequisite: *None, though experience with computers and visual art are preferred.*

Description: Graphic Design explores the realm of digital media, creating works of visual art using the computer as our tool. We will explore the importance of design, digital media, and their social impact, as well as the artistic processes and various careers available to designers today. Through the use of image manipulation software and traditional media, we will bridge the gap between the physical and the digital to construct work that is both effective in communication and visually appealing. Works constructed in this class will build skills in composition, color theory, the elements of art and principles of design, and creative problem solving. Through completion of this course, students will be able to analyze, interpret, and construct digital works utilizing tools and techniques on the cutting edge of digital media.

Course Name/#: **Advanced Placement Studio Art-108**

Grade Level: 11-12

Course Status: Elective

Course Level: **A.P.**

Credit: 1.0

Multiplier: 1.06

Fee: **\$250.00 plus cost of textbook**

Prerequisite: ***Studio Art 3 or portfolio approval.***

Description: AP Studio Art is designed for students who wish to pursue their talents in the visual arts on an advanced level. Throughout the year, students will develop and construct a body of work through a sustained investigation, an individualized topic of the student's choosing from which their overall AP portfolio will evolve and take shape. The course will allow students to more deeply explore and work in many different media (painting, drawing, sculpture, photo, digital, etc.) with the goal of developing two cohesive portfolios: a sustained investigation portfolio highlighting their artistic journey through the year, and a selected works portfolio showcasing their best work. As students advance through the course, they will develop a deeper understanding of fine art through practice, study of history, written and oral critique, all while cultivating their own emerging visual aesthetic.

Course Name/#: **Studio Art 3 - 135**

Grade Level: 11-12

Course Status: Elective

Course Level: Honors

Credit: .5 (can take multiple times)

Multiplier: 1.04

Prerequisite: ***Studio Art 2 or portfolio approval.***

Description: Studio Art 3 is designed for students who wish to pursue their talents in the visual arts on an advanced level. The course will allow students to more deeply explore and work in many different media (painting, drawing, sculpture, photo, digital, etc.) with the goal of developing a cohesive portfolio. As students advance through the course, they will develop a deeper understanding of fine art through practice, study of history, written and oral critique, all while cultivating their own emerging visual aesthetic.

Course Name/#: **Modern Dance – 136**
Course Status: Elective
Credit: .5 (can take multiple times)
Fee: \$75

Grade Level: 10-12
Course Level: General
Multiplier: 1.04

Course Description: This course explores the technique and the theory of Intermediate Modern Dance. Emphasis is placed on intermediate/advanced modern dance techniques and the application of movement principles essential to the training of the dancer. In this course, different styles of modern dance will be presented with an emphasis on improving anatomical awareness and alignment, developing integrated movement patterns and internal connections, rhythmic awareness and using dance as a form of expression.

BAND

Course Name/#: **Concert Band - 101**
Course Status: Elective
Credit: .5

Grade Level: 9-12
Course Level: General
Multiplier: 1.00

Prerequisite: None

Description: The Concert Band is available to students who have fulfilled a minimum of one year of study on a band instrument or to students who are willing to learn a background instrument (Bass Clarinet, Bassoon, Tuba, French Horn, Xylophone, Oboe, Tenor Saxophone, Baritone Saxophone, or Euphonium (baritone horn). Regular Concert Band instruments include: Flute, Clarinet, Saxophone, Trumpet, Trombone, and Percussion. Pianists may join the band but must be willing to learn the keyboard instruments (Xylophone and Bells). This course includes three (3) required concerts a year and a half hour of individual practice per day. **A band fee is required.**

Course Name/#: **Wind Ensemble – 122**
Course Status: Elective
Credit: .5
Prerequisite: Audition

Grade Level: 9-12
Course Level: Honors
Multiplier: 1.03

Description: The Wind Ensemble is by audition only. Auditions are held in April of the previous school year and the first week of class. This class consists of select students who have reached a high level of expertise on their respective instruments. This class covers study in basic music theory, rhythm, major and minor keys and many different styles and idioms of music. This course includes four required concerts per year and a minimum of one hour of individual practice per day. Wind Ensemble class members are expected to participate in several extra performances, competitions and chamber music ensembles than that of Concert Band. **A band fee is required.**

Course Name/#: **Band Instrumental Basics-131**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 9-12
Course Level: General
Multiplier: 1.00

Description: The band instrumental basics class is a course offered to students who wish to participate in our school's concert band or wind ensemble, but have either little to no prior instrumental experience or are looking to pick back up an instrument they have not played in a few years. The course will follow along with the Essential Elements Book #1 and take students through the basics of how to play the instrument of their choosing in regards to instrument set-up and maintenance, proper playing embouchure, posture, and technique, and how to read notes, rhythms, and music terminology. Students will be need to obtain their own instrument (Flute, Oboe, Clarinet, Bassoon, Saxophone, Trumpet, French Horn, Trombone, Euphonium/Baritone, Tuba, and Percussion) to bring to class each day and are expected to practice a minimum of a half hour each day. At the conclusion of the course, the students will then be offered the opportunity to join the concert band for the following semester/year.

CHORUS

Course Name/#: **Concert Choir - 111**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 9-12
Course Level: General
Multiplier: 1.00

Description: This course provides an opportunity for students to develop musicianship and performance skills through ensemble and solo singing. Auditions are not required. Activities in this class are designed to develop quality repertoire in the diverse styles of choral literature, appropriate in difficulty and range for students. Emphasis is placed on vocal technique and music theory as it relates to the singer. Upon completion of this course, students will be able to demonstrate skills needed to participate in choral performance. Attendance at all scheduled concerts and contest performances is required. Grades are based on individual attitude, improvement, and contribution to the group.

Course Name/#: **Select Chorus –123**
Course Status: Elective
Credit: .5
Prerequisite: Permission of Choral Instructor (Audition may be required)

Grade Level: 10-12
Course Level: Honors
Multiplier: 1.03

Description: This is an auditioned group of students in grades 10 through 12 who have completed one year of mixed chorus or who have obtained instructor permission. Students who meet the objective in mixed chorus will represent the school and community in various concerts, competitions and field trips. Grades are correlated to attendance at all concerts and performances.



WORLD LANGUAGES

Spanish Language Offerings

Course Name/#:	Spanish 1 – 202	Grade Level:	9-12
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	Placement/for upper classmen, approval from the coordinator.		

Description: This course provides an introduction to the language and culture of Spanish-speaking countries. The student will begin to attain proficiency in listening, speaking, reading, and writing the target language. Emphasis will be placed on the geography and cultures of contemporary Spanish-speaking countries and their influence on our own culture. This course integrates presentations, readings, skits, films, and internet activities to enhance the language experience.

Course Name/#:	Spanish 2 (H) - 203	Grade Level:	9/10
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	Successful completion of Spanish 1H curriculum with an average of 90% or better with teacher recommendation. Student has demonstrated a strong work ethic in 1 and the ability to work independently as well as grasp the level 1 grammar and its verb conjugations. Moving from a 1R to 2H must be approved by the Department Coordinator.		

Description: This intensive course incorporates more complex grammatical structures, expands cultural themes and broadens the student's vocabulary in the target language. The student continues to use the language on a daily basis in practical situations. Students interact with one another in Spanish, participate in presentations and skits, read articles and stories in Spanish, view films, and use the internet to access Spanish sites and materials.

Course Name/#:	Spanish 2 - 204	Grade Level:	9/10
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	Successful completion of Spanish 1 curriculum. Eighth grade students will be required to sit for a placement examination to determine the appropriate level of learning.		

Description: This course incorporates more complex grammatical structures, expands cultural themes and broadens the student's vocabulary in the target language. The student continues to use the language on a daily basis in practical situations. Successful completion of 1R.

Course Name/#:	Spanish 3 (H) - 205	Grade Level:	10/11
Course Status:	Elective	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	Successful completion of Spanish 2H curriculum with an average of 90% or better. Students recommended from 2R must be approved by the Department Coordinator .		

Description: This intensive course will have the student organize and expand grammar and vocabulary learned in levels 1 and 2. The student will communicate ideas verbally and in written form and comprehend the spoken and written language in accordance with checkpoint B of the NYS Board of Regents standards. Students interact with one another and the teacher in Spanish. Samples of Spanish and Latin American literature are introduced in preparation for continuing in an advanced level of Spanish upon completion of this course. Students need to show the ability to work independently and a strong work ethic in their previous course.

Course Name/#: **Spanish 3 - 206**
Course Status: Elective
Credit: 1
Prerequisite: Successful completion of Spanish 2 curriculum.

Grade Level: 10/11
Course Level: Regents
Multiplier: 1.00

Description: This course will have the student organize and expand grammar and vocabulary learned in levels 1 and 2. The student will communicate ideas verbally and in written form and comprehend the spoken and written language in accordance with checkpoint B of the NYS Board of Regents standards.

Course Name/#: **Advanced Placement Spanish - 208**

Course Status: Elective

Credit: 1

Fee: **\$250.00 plus cost of textbook**

Prerequisite: Overall GPA of 93% or higher in language, completion of College Spanish with a 90% or higher and department coordinator approval..

Grade Level: 11/12

Course Level: **A.P.**

Multiplier: 1.06

Description: This course, conducted in Spanish, encompasses listening, writing, reading and speaking skills in the target language. Grammar is reviewed as needed. Students prepared via their honors courses, which are pre-AP courses, should be ready for this level. The goal is for students to have a working knowledge in the target language and culture on the following topics: Personal and Public identities, Contemporary Life, Families and Communities, Beauty and Aesthetics, Science and Technology, Global Challenges. The AP exam tests on the different themes. Preparation may commence in late August with the first theme of Personal and Public identities, so that all topics will be completed in time. All enrolled students will sit for the AP Spanish exam in May.

Course Name/#: **College Spanish - 210**

Course Status: Elective

Credit: 1

Fee: **\$450.00 plus cost of textbook**

Prerequisite: Overall GPA of 87% in Spanish 3H. Students in 3R should have a 90 % or higher.

Grade Level: 11/12

Course Level: **College**

Multiplier: 1.04

Description: This College Spanish course is divided into two semesters. Readings are used as a basis for conversational practice and study of Spanish and Latin American civilization. The course focuses on creative expression in writing and imitation of complicated patterns of structure, advanced syntax and creative expression in writing, conversation practice, and language laboratory work. All students are engaged daily in grammar and writing practice. **Six undergraduate college credits are awarded for successful completion of this class through Mount Saint Mary College, Newburgh, NY. In addition to the course fee, there is a \$150.00 fee to buy the card for the on-line textbook. The fee includes the textbook, workbook, tutorials and Learn Smart, a program designed to meet the needs of the student in his/her personal learning. All students must have the card in order to participate in the course.**

Course Name/#: **Spanish through Media - 227**

Course Status: Elective

Credit: 1

Prerequisite: Completion of Spanish 3 with an 83% or better. Students must also show a strong interest in Spanish culture.

Grade Level: 11/12

Course Level: General

Multiplier: 1.00

Description: A Spanish elective course focused on conversation, reading and writing in Spanish through the lens of various forms of media. This course presents the Spanish language through art, film, music, books, magazines and online media resources. Students will engage with technology to enhance their language skills. This course is designed for students interested in furthering the development of their proficiency in Spanish. The course offers a global overview of Spanish-language media from Latin America, Spain, and the U.S., and covers topics related to current events. Students will engage in class discussions and create presentations, writing assignments, and creative projects in Spanish.

Italian Language Offerings

Course Name/#:	Italian 1 – 212	Grade Level:	9-12
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	No previous knowledge of Italian (for upper levels, approval from the department coordinator)		

Description: This course provides an introduction to the language and culture of Italy. The student will begin to attain proficiency in listening, speaking, reading, and writing the target language. Emphasis will be placed on the geography and culture of contemporary Italy and its influence on our own culture. This course integrates presentations, readings, skits, films, and internet activities to enhance the language experience.

Course Name/#:	Italian 2 (H) - 213	Grade Level:	9/10
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	Successful completion of Italian 1H curriculum with average of 90% or better. Eighth Grade students will sit for a placement examination to determine appropriate level of learning.		

Description: This intensive course incorporates more complex grammatical structures, expands cultural themes and broadens the student's vocabulary in the target language. The student continues to use the language on a daily basis in practical situations. Students interact with one another in Italian, participate in presentations and skits, read articles and stories in Italian, view films, and use the internet to access Italian sites and materials.

Course Name/#:	Italian 2 - 214	Grade Level:	9/10
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	Successful completion of Italian 1 curriculum.		

Description: This course incorporates more complex grammatical structures, expands cultural themes and broadens the student's vocabulary in the target language. The student continues to use the language on a daily basis in practical situations.

Course Name/#:	Italian 3 (H) - 220	Grade Level:	10/11
Course Status:	Elective	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Additional Resources:	Students will be required to purchase a workbook from the school bookstore.		
Prerequisite:	Successful completion of Italian 2H curriculum with an average of 90% or better.		

Description: This intensive course will have the student organize and expand grammar and vocabulary learned in levels 1 and 2. The student will communicate ideas verbally and in written form and comprehend the spoken and written language in accordance with checkpoint B of the NYS Board of Regents standards. Students interact with one another and the teacher in Italian. Samples of Italian literature are introduced in preparation for continuing in an advanced level of Italian upon completion of this course.

Grade Level: 10/11

Course Level: Regents

Multiplier: 1.00

Prerequisite: Successful completion of Italian 2 curriculum.

Description: This course will have the student organize and expand grammar and vocabulary learned in levels 1 and 2. The student will communicate ideas verbally and in written form and comprehend the spoken and written language in accordance with checkpoint B of the NYS Board of Regents standards.



MATHEMATICS

Course Name/#:	Algebra IA - 334	Grade Level:	9
Course Status:	Required	Course Level:	General
Credit:	1	Multiplier:	1.00
Prerequisite:	Placement and recommendation from the Math Department and freshman guidance counselor.		

Description: Algebra IA is designed to be the first half of a two year Algebra I program. This course is designed for students not prepared to complete the Algebra I curriculum in one year. This course will begin covering material necessary for success in the New York State Algebra I curriculum. Students will complete preparation for the Algebra I Regents Exam the following year. A TI-84 graphing calculator is required.

Course Name/#:	Algebra I - 328	Grade Level:	9
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	Placement		

Description: This course is aligned with the New York State curriculum for Algebra. This course integrates various branches of mathematics presenting concepts both algebraically and geometrically. Successful completion of this course will prepare the student for Geometry. A TI-84 graphing calculator is required. Students are expected to sit for the Algebra I Regents Exam administered in June.

Course Name/#:	Integrated Geometry - 336	Grade Level:	10-12
Course Status:	Elective	Course Level:	General
Credit:	1	Multiplier:	1.00
Prerequisite:	Passing grade in Algebra 1B or Algebra 1.		

Description: This course is for students who wish to be exposed to the major concepts of geometry, without the rigor of proof. The course will reinforce algebra skills through geometric applications, and more emphasis will be on hands on learning. A foundation in most major topics of geometry will be laid by applying concepts to solving numeric problems rather than studying geometric proofs. This course does **not** prepare students for the Common Core Geometry Regents exam.

Course Name:	Geometry - 322	Grade Level:	9 -10
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	At least a 75 overall average in Regents Algebra and a score of 75 or better on the NYS Algebra Regents Exam. Freshman must have completed 7 th and 8 th grade common core curriculum. Teacher recommendation if student is coming from Algebra 1B.		

Description: This course is aligned with the New York State curriculum for Geometry. This course is meant to employ an integrated approach to the study of geometric relationships. Successful completion of this course will prepare the student for Algebra II. A TI-84 graphing calculator is required. Students are expected to sit for the Geometry Regents Exam administered in June.

Course Name:	Geometry (H) - 321	Grade Level:	9 -10
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	A course grade of 90 or better in Regents Algebra including a score of 85 or better on the NYS Algebra Regents Exam and teacher recommendation. Freshman must have completed 7 th and 8 th grade common core curriculum.		

Description: This course is aligned with the New York State curriculum for Geometry. This course is meant to employ an integrated approach to the study of geometric relationships. Enrichment in all geometric concepts is required for the honors student. Successful completion of this course will prepare the student for either Algebra II or Algebra II Honors. A TI-84 graphing calculator is required. Students are expected to sit for the Geometry Regents Exam administered in June.

Course Name/#:	Intermediate Algebra 2/Trigonometry - 330	Grade Level:	10/11
Course Status:	Elective	Course Level:	General
Credit:	1	Multiplier:	1.00
Prerequisite:	A passing grade in Geometry, teacher recommendation and department approval.		

Placement by Math Department **and** approval of a guidance counselor.

Description: This course is intended for students who need a third year of mathematics but do not meet the prerequisites for Algebra II Regents Level. Topics include polynomials, linear functions, rational expressions, functions, quadratics, absolute value, inequalities, circles, and exponents. A TI-84 graphing calculator is required.

Course Name/#:	Algebra II (H) - 331	Grade Level:	10/11
Course Status:	Required	Course Level:	Honors
Credit:	1	Multiplier:	1.03
Prerequisite:	A course grade of 90 or better in Geometry Honors and a score of 85 or better on the New York State Geometry Regents Exam and teacher recommendation.		

Description: This course is aligned with the New York State Common Core curriculum for Algebra II. It is expected that students will identify and justify mathematical relationships, formally and informally. The course will provide a variety of ways for students to acquire and demonstrate mathematical reasoning ability when solving problems. Enrichment in all concepts is required for the honors student. A TI-84 graphing calculator is required. Students are expected to sit for the Algebra II Regents Exam administered in June.

Course Name/#:	Algebra II - 332	Grade Level:	10 - 12
Course Status:	Required	Course Level:	Regents
Credit:	1	Multiplier:	1.00
Prerequisite:	An 80 or better overall average in Regents Geometry and a score of 70 or better on the NYS Geometry Regents Exam and a grade of 75 or better on the NYS Algebra I Regents Exam.		

Description: This course is aligned with the New York State Common Core curriculum for Algebra II. It is expected that students will identify and justify mathematical relationships, formally and informally. The course will provide a variety of ways for students to acquire and demonstrate mathematical reasoning ability when solving problems. A TI-84 graphing calculator is required. Students are expected to sit for the Algebra II Regents Exam administered in June.

Course Name/#:	Pre-Calculus - 326	Grade Level:	11/12
Course Status:	Elective	Course Level:	General
Credit:	1	Multiplier:	1.00
Prerequisite:	A passing grade in Algebra II or Integrated Algebra and teacher recommendation.		

Description: This course is designed for any student who will enroll in future math courses for professional/college preparation. Careful mathematical development with emphasis on theory, method and technological application give students a firm foundation for advanced mathematical study. The topics studied include linear, polynomial, rational, exponential, and logarithmic functions, trigonometry and its applications, polar coordinates, matrices, analytic geometry, sequences and series, and an introduction to limits and calculus. Use of a TI-84 graphing calculator is required.

Course Name/#:	College Pre-Calculus -327	Grade Level:	11/12
Course Status:	Elective	Course Level:	College
Credit:	1	Multiplier:	1.04
Fee:	\$225 plus cost of textbook		
Prerequisite:	A grade of 75 or better in Algebra II, a score of 75 or better on the Algebra II Regents exam, and teacher recommendation.		

Description: This course is intended primarily for students planning to take calculus. Topics include a review of the fundamental operations; inequalities; polynomials; algebraic, trigonometric, exponential, logarithmic, and inverse functions; modeling and data analysis. A graphing calculator from the TI-84 family of calculators is required for this course. **Three undergraduate college credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	Elementary Statistics - 319	Grade Level:	11/12
Course Status:	Elective	Course Level:	College
Credit:	1	Multiplier:	1.04
Fee:	\$225 plus cost of textbook		
Prerequisite:	Passing two mathematics regents exams, successfully completing three years of mathematics and a teacher recommendation.		

Description: This course is designed to give students an introduction to the probability and statistics required in many college majors. It is intended for students who have had three years of math. Basic statistical procedures are developed. Topics include descriptive statistics, probability, probability distributions, hypothesis testing, confidence intervals, correlation and regression. Use of a TI-84 graphing calculator is required. **Three undergraduate college credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	Advanced Placement Statistics - 320	Grade Level:	11/12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$250 plus cost of textbook		
Prerequisite:	A passing grade on the Algebra II Regents Exam and a teacher recommendation.		

Description: This course is the Advanced Placement curriculum in statistics. Topics include z-score analysis, binomial distribution interpretations, analysis of the normal curve, probability distributions, constructing and interpreting graphical displays, exploring bivariate data, sampling and experimentation. Use of a TI-84 graphing calculator is required. **All enrolled students must sit for the AP Statistics exam in May.**

Course Name/#:	College Calculus - 316	Grade Level:	12
Course Status:	Elective	Course Level:	College
Credit:	1	Multiplier:	1.04
Fee:	\$300 plus cost of textbook		
Prerequisite:	A grade of 80 or above in College Pre-calculus and a teacher recommendation		

Description: This course is intended for students with thorough knowledge of college preparatory math. The topics covered are functions and graphs, the derivative, interpretation of the derivative, differentiability, limits, definite integrals, the fundamental theorem, mathematical modeling, application of the derivative, and techniques of integration. Use of the computer and graphing calculator is required. **Four undergraduate college credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	Advanced Placement Calculus AB - 317	Grade Level:	12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$250 plus cost of textbook + \$25 workbook		
Prerequisite:	A grade of 85 or above in College Pre-Calculus and a teacher recommendation.		

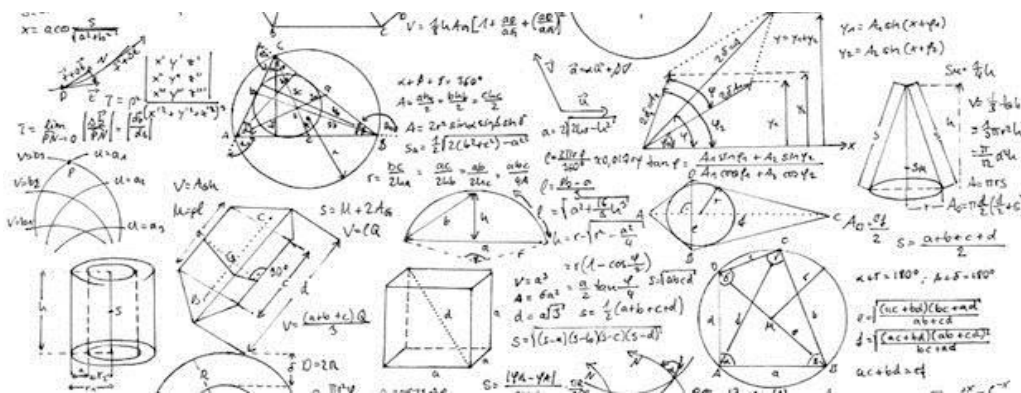
Description: This college course presupposes a mastery of algebra, trigonometry, analytic geometry, complex numbers, and elementary functions. Topics covered in this course include: limits of functions (including one-side limits), continuity as a property of functions, concept of the derivative, integrals, applications of integrals, and numerical approximations to definite integrals. Use of a graphing calculator is required. Use of a TI-84 graphing calculator is required. **This AP course may commence in late August and require summer assignments to be completed. All enrolled students must sit for the AP Calculus exam in May.**

Course Name:	Applied Mathematics for College and Career Readiness - 338	Grade Level:	12
Course Status:	Elective	Course Level:	General
Credit:	.5	Multiplier:	1.00
Prerequisite:	Teacher recommendation after 3 years of high school mathematics or equivalent.		

Description: This course is intended to give students a deeper understanding of mathematical relationships leading to real-world mathematical literacy and a strong foundation for future studies. This course is project based and designed to develop student's problem solving skills and ability to communicate mathematically. Additionally, students will learn how to make efficient and appropriate use of technology to solve problems. Students will develop mathematical intuition and gain experiences that allow for connections between classroom learning and real-world applications.

Course Name:	Introduction to Accounting- 374	Grade Level:	11/12
Course Status:	Elective	Course Level:	General
Credit:	.5	Multiplier:	1.00
Prerequisite:	Teacher recommendation after 3 years of high school mathematics or equivalent.		

Description: This course introduces the fundamentals of accounting. The student learns how to use and prepare journals, ledgers, work sheets, and financial statements. Specific attention is paid to proprietorship, partnership, and corporation. The students will gain knowledge in income tax, bank reconciliation, and payroll. Fortune 500 Companies financial statements will be examined throughout the course. This course enables students to acquire the skills and knowledge necessary to pursue a business program in college. Automated Accounting is introduced through the use of computers.



PHYSICAL EDUCATION

Course Name/#: **Physical Education – 401 - 404**
Course Status: Required
Credit: .5
Prerequisite: None

Grade Level: 9-12
Course Level: General
Multiplier: 1.00

Description: This Course offers an introduction to the history, rules, and game play of several competitive sports. Activities and sports covered are dependent upon which semester a student is assigned physical education and may include, but not limited to, flag football, soccer, team handball, basketball, volleyball, softball, floor hockey, ultimate Frisbee, weightlifting, aerobics, badminton, lacrosse, golf and The Presidential Fitness Challenge.

Course Name/#: **Introduction to Personal Fitness – 411**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: General
Multiplier: 1.00

Description: The purpose of this introductory weight-training course is to teach the lifetime fitness activity of weight training and conditioning. The course will familiarize students with weight training equipment; teach proper training principles and mechanics, and help students develop a personalized training program. Weight training has been shown to improve metabolism, cardiovascular fitness, body composition, muscular strength/endurance, flexibility, and emotional wellbeing. This senior course fulfills the physical education requirement for graduation.

Course Name/#: **Advanced Personal Fitness – 412**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: General
Multiplier: 1.00

Description: The Advanced Personal Fitness course is offered for students who are already familiar with the weight room and are experienced in strength training. This course requires students to develop their own daily personal fitness plan based on personal needs and instructor approval. The course is designed for self-motivated students who will use various types of conditioning machines and equipment with a goal of building muscle mass and increasing strength. They will learn the function and location of various muscles in the body and how to isolate each in specific exercises. Special attention will be given to safety and health considerations. In addition, this course includes a level of developing core strengthening, cardio (high & low intensity), high intensity interval training and calisthenics. Students will learn how to calculate target heart rate and Basic Body Index. Emphasis will be placed on the importance of warm-up and cool down, as well as the development of lifetime fitness plans.

Course Name/#: **Modern Dance – 414**
Course Status: Elective
Credit: .5 (can take multiple times)
Fee: \$75

Grade Level: 10-12
Course Level: General
Multiplier: 1.00

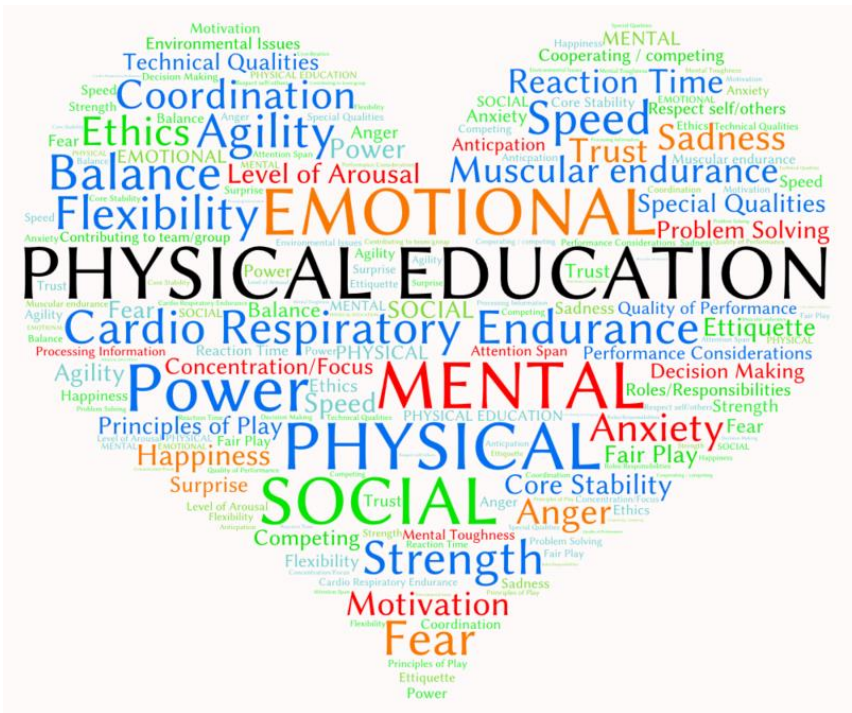
Course Description: This course explores the technique and the theory of Intermediate Modern Dance. Emphasis is placed on intermediate/advanced modern dance techniques and the application of movement principles essential to the training of the dancer. In this course, different styles of modern dance will be presented with an emphasis on improving anatomical awareness and alignment, developing integrated movement patterns and internal connections, rhythmic awareness and using dance as a form of expression.

Grade Level: 12
Course Level: General
Multiplier: 1.00

HEALTH

Grade Level: 11
Course Level: General
Multiplier: 1.00

Description: This state-mandated course will examine health and health related issues such as mental health, alcohol, tobacco, drugs, AIDS, STI, body systems, and nutrition. Students are encouraged to examine rational and intelligent health decisions in order to live healthier, happier and longer. By the conclusion of this course, students will be able to demonstrate their knowledge of these issues.



THEOLOGY

Course Name/#: **Christian Morality - 503**
Course Status: Required
Credit: 1
Prerequisite: None

Grade Level: 9
Course Level: General
Multiplier: 1.00

Description: Students will learn the fundamental teachings of faith made known by Jesus Christ and transmitted through Sacred Scripture and Tradition. Students will know who God is, what he wants, and why it matters. Students will also learn Catholic moral teaching rooted in the Ten Commandments, the natural law, and the teachings of Jesus and articulated systematically in the Catechism of the Catholic Church. Students will study how developing virtue, doing right, and avoiding wrong will expand our capacity to love, increase our freedom, create a more just society, lead to enduring happiness, and help us get to Heaven. Students will study how sin has the opposite effects. Students will study how Jesus calls us to more than just following the moral law; He calls us to love God with all of one's heart, soul, and strength, to love one's neighbor as oneself, and to develop a humble, contrite heart. Students will study how Catholic moral teaching applies to concrete issues in their lives and in society, and how God makes available grace—especially through the Sacraments—to help us overcome sin, follow the moral law, and love like God loves.

Course Name/#: **Understanding the Scriptures – Old Testament- 501**
Course Status: Required
Credit: 1
Prerequisite: None

Grade Level: 10
Course Level: General
Multiplier: 1.00

Description: The curriculum for freshman students consists of the study of Sacred Scripture, focusing on the Old Testament. Students will be introduced to the Church's teaching on Bible including the purpose of Sacred Scripture in the context of Sacred Tradition as well the Bible's origins. This year long course begins with an in depth study of the Book of Genesis, including the Creation, the Original Sin, and the covenant made with Abraham and his descendants. The course also explores the Old Testament canon following the order of the sacred texts, from the Pentateuch to the historical books, to the wisdom literature, to the prophetic books, taking us to the coming of the Savior. Our studies of the Old Testament have for their purpose a better understanding of the Divine Person of Jesus Christ, of whom the Old Testament foretells and anticipates.

Course Name/#: **Understanding the Scriptures – New Testament-502**
Course Status: Required
Credit: 1
Prerequisite: None

Grade Level: 11
Course Level: General
Multiplier: 1.00

Description: The curriculum for sophomore students consists of the study of the New Testament Scriptures, building on knowledge gained from our freshman year's study of the Old Testament. Students will examine the four holy gospel accounts in order to gain a greater knowledge of and appreciation for the life of our Blessed Savior, Jesus Christ. Students will then examine the Acts of the Apostles, including the details of the founding of the Church, followed by a study of the canonical letters of St. Paul, St. John, St. Peter, all the way to the final book of Scripture, the Book of Revelation. Beginning the year with chapter sixteen of the same text book used in freshman year, students will explore these sacred texts with a spirit of faith and devotion, focusing with special attention on the Passion, Death and Resurrection of our Blessed Savior Jesus Christ. Included in this year long course is an examination of the seven Sacraments and the nature of the Catholic Church herself, in connection with their Scriptural roots and the Church's sacred Tradition.

Religion 12

All seniors are required to complete one credit unit in Religion. This may be accomplished by enrolling and satisfactorily two of the approved semester courses. ***Seniors will choose from the following courses: Church History, Christian Marriage and Family, Christian Themes in Literature and Film or Miracles.***

Course Name/#: **Church History – 510**
Course Status: ** Required
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: General
Multiplier: 1.00

Description: The course is designed to examine the Catholic Church's role in shaping the past. This course introduces students to the Catholic Church's rich history and fascinating story, beginning with the apostolic age and continuing through the present day. Saints and sinners, heroes and heretics highlight the lives of key figures throughout Church history. This course is intended to build a foundation to begin a lifelong journey toward understanding the Catholic Church's beautiful heritage.

OR

Course Name/#: **Christian Marriage and Family – 507**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: General
Multiplier: 1.00

Description: In the *Christian Marriage and Family* course, students will study Christ's teachings on the true meaning of love, the sacredness of sex, the purpose of human sexuality, and the fundamental role that family has to play in God's plan for human happiness. Students will review the Catholic Church's perennial teachings on the goodness of marital love, the virtue of chastity, on virtuous dating and courtship, on the vocations of Christian fatherhood and motherhood found in sacramental marriage and Religious vocations. Students will investigate the Church's teachings on the priesthood, celibacy and the Religious Life, as these are related to the family. The course will utilize the Catechism of the Catholic Church and include guest speakers who will give presentations on the vocations of marriage, priesthood, and Religious life.

OR

Course Name/#: **Christian Themes in Literature and Film - 520**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: Regents
Multiplier: 1.00

Description: Exploring big questions such as "What are we human beings like?" and "What is God like?" is the focus for this senior year religion course. Christian themes such as faith, hope, love, sin, forgiveness, conscience, conversion, vocation, holiness and redemption are examined as depicted in both literature and film.

OR

Course Name/#: **Miracles - 523**
Course Status: Elective
Credit: .5
Prerequisite: None

Grade Level: 12
Course Level: Regents
Multiplier: 1.00

Description: This course seeks to know, love, and serve God by investigating the miracles that He has performed throughout all of history. Special emphasis will be given to the miracle of transubstantiation- Jesus Christ truly present in the Eucharist, Body, Blood, Soul, and Divinity - through examining in more depth the Eucharistic Miracles. Students will also examine Marian apparitions, and the canonization process.

SCIENCE

Course Name/#: **Biology: The Living Environment (H) - 601**

Grade Level: 9

Course Status: Required

Course Level: Honors

Credit: 1

Multiplier: 1.03

Course Requirements: 30 hrs lab activity - the purchase of a review book from the school bookstore.

Prerequisite: 93 % or better in 8th Grade Science. The performance level in the Grade 8 Intermediate Level Science exam may be used for placement. Final approval for all courses will be determined by the Science Department

Description: This course investigates how humans and other organisms interact within the environment according to the New York State Living Environment Regents Standards. As students encounter topics such as cell biology, genetics, biochemistry, ecology, and evolution, they develop essential data literacy and experimental design skills. Laboratory activities with written reports are an integral part of this course. Students take the NYS Living Environment Regents Exam in June.

Course Name/#: **Biology: The Living Environment - 602**

Grade Level: 9

Course Status: Required

Course Level: Regents

Credit: 1

Multiplier: 1.00

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Placement

Description: This course investigates how humans and other organisms interact within the environment according to the New York State Living Environment Regents Standards. As students encounter topics such as cell biology, genetics, biochemistry, ecology, and evolution, they develop essential data literacy and experimental design skills. Enhanced topic coverage and a more rigorous testing program are part of the Honors curriculum. Laboratory activity, with reports, is an integral part of this program. Students will take the June NYS Regents Exam in Biology.

Course Name/#: **Chemistry (H) - 603**

Grade Level: 10

Course Status: Required

Course Level: Honors

Credit: 1

Multiplier: 1.03

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Successful completion of Biology Honors level with a final average of 90% or above, plus obtaining a score of 85 or above on the NYS Living Environment exam, successful completion of Algebra with a final average of 85% or above, a score of 85 or higher on the NYS Regents exam in Algebra, and teacher recommendation. Final approval for all courses will be determined by the Science Department

Description: This rigorous course, based on the new standards for chemistry, prepares the student to explain accurately and with appropriate depth, general chemistry concepts and models. Advanced study of the following topics, which includes atomic concepts, periodic table, moles, stoichiometry, chemical bonding, physical behavior of matter, kinetics/equilibrium, organic chemistry, oxidation/reduction, acids/bases/salts, and nuclear chemistry. The students will participate in experimental, practical, and theoretical scientific inquiry activities and will take the June NYS Regents Exam in Chemistry.

Course Name/#: **Chemistry (R) - 604**

Course Status: Required

Credit: 1

Grade Level: 10/11

Course Level: Regents

Multiplier: 1.00

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Successful completion of Biology with a final average of 85% or above, plus obtaining a score of 85 or above on the NYS Living Environment exam, successful completion of Algebra with a final average of 85% or above, a score of 85 or higher on the NYS Regents exam in Algebra, and teacher recommendation. Final approval for all courses will be determined by the Science Department

Description: This course, based on the new standards for chemistry, prepares the student to explain accurately and with appropriate depth, general chemistry concepts and models. Topics include atomic concepts, periodic table, moles, stoichiometry, chemical bonding, physical behavior of matter, kinetics/equilibrium, organic chemistry, oxidation/reduction, acids/bases/salts, and nuclear chemistry. Students should be proficient in the following mathematical skills: using scientific notation, decimals, and fractions, and percent equivalents, they will also need to rearrange algebraic equations. The students will participate in experimental, practical, and theoretical scientific inquiry activities. Students will take the June NYS Regents Exam in Chemistry.

Course Name/#: **Physics (H) - 605**

Course Status: Elective

Credit: 1

Grade Level: 11/12

Course Level: Honors

Multiplier: 1.03

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Satisfactory completion of Algebra II and Honors Chemistry with an overall average of 85% or better in Honors Algebra II and Honors Chemistry (including Regents Exams) plus teacher recommendation. Final approval for all courses will be determined by the Science Department

Description: This course, based on the new standards for physics, is a traditional, in-depth study of such areas as motion, forces, energy, waves, sound, light, electricity, and atomic structure. Supplemental assignments are designed to challenge students to explain phenomena that we tend to overlook in our daily lives. Students should be proficient in the following mathematical skills: using scientific notation, decimals, and fractions, and percent equivalents; they will also need to rearrange algebraic equations and understand basic trigonometry. The students will participate in experimental, practical, and theoretical scientific inquiry activities and will take the June NYS Regents Exam in Physics.

Course Name/#: **Physics - 606**

Course Status: Elective

Credit: 1

Grade Level: 11/12

Course Level: Regents

Multiplier: 1.00

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Satisfactory completion of Algebra II or Geometry and Regents Chemistry with an average of 85% or better (including regents exams) plus teacher recommendation. Final approval for all courses will be determined by the Science Department

Description: This course, based on the new standards for physics, is a traditional study of such areas as energy, motion, forces, heat, waves, light, sound, electricity, and atomic structures, and their application in our daily lives. Students should be proficient in the following mathematical skills: using scientific notation, decimals, and fractions, and percent equivalents, they will also need to rearrange algebraic equations and understand basic trigonometry. The students will participate in experimental, practical, and theoretical scientific inquiry activities and will take the June NYS Regents Exam in Physics.

Course Name/#: **Earth Science; Physical Setting - 607**

Grade Level: 9 - 12

Course Status: Required

Course Level: Regents

Credit: 1

Multiplier: 1.00

Course Requirements: 30 hrs lab activity – the purchase of a review book from the school bookstore.

Prerequisite: Successful completion of Biology and Chemistry. Final approval for all courses will be determined by the Science Department

Description: This course is the combined study of our planet, its composition, geological processes, history, and environment in space. The program meets the NYS regent's standards. Laboratory activity is an integral part of this course. Students will take the June NYS Regents Exam in Earth Science. This also includes a hands-on laboratory practical as part of the NYS Regents exam. Critical to understanding science concepts is the use of scientific inquiry to develop explanations of natural phenomena. Therefore, as a prerequisite for admission to the Regents Examination in Physical Setting/Earth Science, students must have successfully completed 1200 minutes of a laboratory experience with satisfactory written reports for each laboratory investigation. It is essential that students hand in and file all completed laboratory work when due.

Course Name/#: **Forensic Science - 617**

Grade Level: 12

Course Status: Elective

Course Level: General

Credit: .5

Multiplier: 1.00

Fee: **\$150.00 plus cost of the textbook**

Prerequisite: Successful completion of Biology and Chemistry Final approval for all courses will be determined by the Science Department

Description: Forensic Science is the application of scientific principles as applied to a court of law, and, most importantly, experimental techniques needed to analyze a crime scene. This laboratory course was designed to bring together the science skills and experiences of students and allow them to be applied to relevant crime scene situations. Emphasis will be placed on rigorous research, using computer resources and original approaches to problem solving. The student will study the ever-widening range of scientific techniques that make up this field. A host of physical and chemical tests will be carried out on samples by the students, with emphasis on accuracy and record keeping. The culminating activity will be the creation and analysis of a crime scene.

Course Name/#: **Environmental Science - 612**

Grade Level: 11/12

Course Status: Elective

Course Level: General

Credit: 1

Multiplier: 1.00

Prerequisite: Successful completion of Biology and Earth science Regents exams. Final approval for all courses will be determined by the Science Department

Description: This course is an introductory Environmental Science course. It is designed to provide students with course work from various branches of science. This interdisciplinary course will focus on topics including: Earth's Systems, Ecology, Population, Land and Water Uses, Energy Resources, Pollution, and Global Change. Laboratory activities, projects and presentations are an integral part of the curriculum.

Course Name/#:	Human Anatomy and Physiology - 622	Grade Level:	11/12
Course Status:	Elective	Course Level:	General
Credit:	.5	Multiplier:	1.00
Prerequisite:	Successful completion of two years and two credits in Regent Science coursework. Final approval for all courses will be determined by the Science Department		

Description: Human Anatomy and Physiology is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body; biochemical composition; and major body systems along with the impact of diseases on certain systems. Students will engage topics and competencies related to understanding the structure and function of the human body. Working from the topics of basic anatomical terminology to the biochemical composition of the human body, and into great detail of each of the major systems of the body, students will use reading materials, study guides, unit worksheets, group work, projects, and labs to understand the curriculum. Students will be responsible for proper use of lab equipment, lab reports, and projects assigned throughout each unit. Another goal of this course is to prepare students with the skills necessary to be successful in future college science classes.

Course Name/#:	Health Science Introduction - 628	Grade Level:	11/12
Course Status:	Elective	Course Level:	General
Credit:	.5	Multiplier:	1.00
Prerequisite:	Successful completion of two years and two credits in Regent Science coursework. Final approval for all courses will be determined by the Science Department		

Description: Health Science Introduction is a course intended for students who are considering a career in healthcare and will explore the fundamental aspects of healthcare. Topics covered will include exploration of the various health science career pathways and the roles of different members of the healthcare team. This course will explore the history of medicine as well as current trends. Students will engage in projects and discussion related to medical law and medical ethics. Students will be exposed to basic medical terminology and application thereof. Students will study and engage in hands on activities related to basic safety and infection control. The goal of this course is to create a foundation of knowledge in health science.

Course Name/#:	Introduction to Engineering - 623	Grade Level:	10 - 12
Course Status:	Elective	Course Level:	General
Credit:	.5	Multiplier:	1.00
Prerequisite:	Successful completion of two years and two credits in Regent Science coursework. Final approval for all courses will be determined by the Science Department		

Description: This basic engineering course exposes students to some of the major branches of engineering. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts by employing engineering and scientific principles in the solution of engineering design problems. Problem-solving and research skills will enable students to design and create solutions to various challenges. Students also learn how to document their work and communicate their solutions. There will be an emphasis on principles of professionalism, ethics, teamwork, and problem solving. Students will also be introduced to engineering software tools.

Course Name/#:	College General Biology I & II - 626	Grade Level:	11/12
Course Status:	Elective	Course Level:	College
Credit:	1.0	Multiplier:	1.04
Fee:	\$600 (includes textbook and lab fees)		

Course Requirements: The purchase of a college biology review book from the bookstore.

Prerequisite: An overall average of 90 in both Honors Biology and Honors Chemistry. Final approval for all courses will be determined by the Science Department

Description: 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. College General Biology I and II are recommended for students who wish to pursue studies in the Biological and Life Sciences. College Biology II is a continuation of College General Biology I, and includes homeostasis in organisms, genetics, evolution and a consideration of the structure and function of tissues, organs and organ systems. Advanced laboratory experiences are an integral part of both courses. **Eight college credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	Advanced Placement Biology - 614	Grade Level:	11/12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$400.00 (includes books & lab fees)		

Prerequisite: An overall average of 90% in Biology, Chemistry, and Physics, plus departmental and instructor approval. Juniors must have taken or be currently enrolled in Physics. Final approval for all courses will be determined by the Science Department

Description: AP Biology is designed as a college level biology course that builds off of the foundation established in prior biology and chemistry classes. Because modern biology focuses on topics at the cellular level and below, a strong background in both chemistry and mathematics, as well as a strong work ethic, are imperative for success in this course. The course is focused around four unifying themes that integrate the major topics of biology: evolution, energy, information storage and communication, and interactions between systems and organisms. The integrated laboratory component allows students to refine skills such as: analyzing visual representations of complex biological concepts and processes; determining scientific questions and methods; representing and describing data; performing statistical tests to analyze and interpret data; and to develop and justify scientific arguments using evidence. **Students must take the AP Biology exam upon course completion.**

Course Name/#:	Advanced Placement Chemistry - 609	Grade Level:	11/12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$400.00 (includes books & lab fees)		

Prerequisite: An overall average of 90% in Biology, Chemistry, and Physics, plus departmental approval. Juniors must have taken or be currently enrolled in Physics. Final approval for all courses will be determined by the Science Department

Description: This course is designed as a second year course in chemistry, equivalent to introductory college chemistry. Topics will give students in-depth understanding of the fundamental principles of problem solving in chemistry, emphasizing chemical calculations and mathematical formulation of these principles. Another primary emphasis is on developing an understanding of concepts. Essential to this conceptual understanding are the following: a grasp of science as a process rather than an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of chemistry; and application of chemical knowledge and critical thinking to environmental and social concerns. In addition, a variety of laboratory experiments requiring a high degree of precision are performed. **Students must take the A.P. Chemistry exam upon course completion.**

Course Name/#:	Advanced Placement Physics 1 - 618	Grade Level:	11/12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$400 (includes books and lab fees) Student will need to purchase a Regents Review book from the book store to prep for the NYS Regents Exam		
Prerequisites:	An overall average of 90% in Biology and Chemistry; Departmental Approval; Successful completion of Geometry and Algebra II. Final approval for all courses will be determined by the Science Department		

Description: AP Physics 1 is an algebra-based, introductory college level physics course that explores such topics such as Newtonian Mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry based learning, students will develop scientific critical thinking and learning skills. Instructional time will include 25% of hands-on laboratory work with emphasis on investigations that provide students with opportunities to apply science practices. Another goal of the class is to develop problem-solving strategies that will be applicable to all academic and professional areas of knowledge. **Students must sit for the AP Physics 1 exam in early May of each year. Students will sit for the NYS Regents Exam in Physics in June.**

Course Name/#:	Advanced Placement Physics 2 - 619	Grade Level:	12
Course Status:	Elective	Course Level:	A.P.
Credit:	1	Multiplier:	1.06
Fee:	\$400 (includes books and lab fees)		
Prerequisites:	Completion of AP Physics 1 with an overall average of 90%; Departmental Approval; Concurrent Enrollment in AP Calculus AB or College Calculus. Final approval for all courses will be determined by the Science Department		

Description: AP Physics 2 is an algebra-based, introductory college level physics course that explores such topics such as Fluid Mechanics, Thermodynamics, Electricity and Magnetism, Physical and Geometric Optics, and Modern Physics, plus a solid understanding of the concepts and ideas presented in AP Physics 1. Through inquiry based learning, students will develop scientific critical thinking and learning skills. Instructional time will include 25% of hands-on laboratory work with emphasis on investigations that provide students with opportunities to apply science practices. Another goal of the class is to develop problem-solving strategies that will be applicable to all academic and professional areas of knowledge. **Students must sit for the AP Physics 2 exam in early May of each year.**

Course Name/#: **Advanced Placement Environmental Science - 613**

Grade Level: 11/12

Course Status: Elective

Course Level: **A.P.**

Credit: 1

Multiplier: 1.06

Fee: **\$400.00 (includes books & lab fees)**

Prerequisite: Successful completion of both Biology and Chemistry with an overall average of 85% plus departmental approval. Final approval for all courses will be determined by the Science Department

Description: This course is designed to be the equivalent of a college Introductory Environmental Science course. Environmental Science is designed to provide students with course work from various branches of science. This interdisciplinary course will focus on topics including: Earth's Systems, Ecology, Population, Land and Water Uses, Energy Resources, Pollution, and Global Change. There will also be an integrated laboratory component. **Students must take the A.P. Environmental Science exam upon course completion.**

Course Name/#: **Astronomy - 621**

Grade Level: 10 - 12

Course Status: Elective

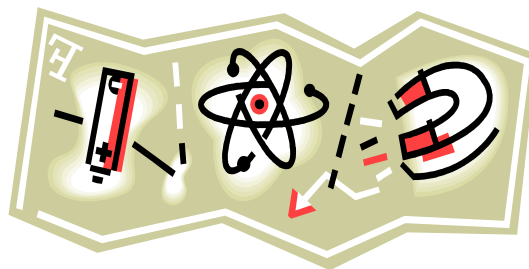
Course Level: General

Credit: .5

Multiplier: 1.00

Prerequisite: Successful completion of two years and two credits in Regent Science coursework. Final approval for all courses will be determined by the Science Department

Description: This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space. The purpose of this course is to enable students to develop and apply knowledge of the universe and compare the conditions, properties, and motions of bodies in space.



SOCIAL STUDIES

Course Name/#: **Global History and Geography I (H) - 701**

Course Status: Required

Credit: 1

Grade Level: 9

Course Level: Honors

Multiplier: 1.03

Prerequisite: In addition to a recommendation from the eighth grade teacher, a student must possess a 90% or better in eighth (8) grade Social Studies, and a National Percentile Rank of 75 or better on the TACHS exam. The performance level in the Elementary ELA exam may be used for placement.

Description: This course is designed to focus on the NYS Learning Standards and Core Curriculum. The Global History and Geography Core Curriculum provides students with the opportunity to study various regions and civilizations. In addition, it enables them to investigate issues and themes from multiple perspectives and make global connections and linkages that lead to in-depth understanding. Global History and Geography I is the first half of a two-year course that surveys world history. The ninth grade curriculum begins with world geography and prehistory and will continue through the late 1700s. In addition to the required topics in the Global Studies I curriculum, the Honors level class will read challenging supplemental texts.

Course Name/#: **Global History and Geography I - 702**

Course Status: Required

Credit: 1

Prerequisite: Placement

Grade Level: 9

Course Level: Regents

Multiplier: 1.00

Description: This course is designed to focus on the NYS Learning Standards and Core Curriculum. The Global History and Geography Core Curriculum provides students with the opportunity to study various regions and civilizations. In addition, it enables them to investigate issues and themes from multiple perspectives and make global connections and linkages that lead to in-depth understanding. Global History and Geography I is the first half of a two-year course that surveys world history. The ninth grade curriculum begins with world geography and prehistory and will continue through the late 1700s.

Course Name/#: **Global History and Geography II (H) - 703**

Course Status: Required

Credit: 1

Additional Resources: Students will be required to purchase a review book from the school bookstore.

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 90% or better in Global History and Geography I.

Grade Level: 10

Course Level: Honors

Multiplier: 1.03

Description: This course is designed to focus on the NYS Learning Standards and Core Curriculum. The Global History and Geography Core Curriculum provides students with the opportunity to study various regions and civilizations. In addition, it enables them to investigate issues and themes from multiple perspectives and make global connections that lead to in-depth understanding of world history and geography. The focus of this course is on the time period 1750 A.D. to the 21st Century. In addition to the required topics in the Global Studies II curriculum, the Honors level class will read challenging supplemental texts. The NYS Global History and Geography II Regents Examination is given in June of sophomore year.

Course Name/#: **Global History and Geography II - 704**

Course Status: Required

Credit: 1

Additional Resources: Students will be required to purchase a review book from the school bookstore.

Prerequisite: None

Grade Level: 10

Course Level: Regents

Multiplier: 1.00

Description: This course is designed to focus on the NYS Learning Standards and Core Curriculum. The Global History and Geography Core Curriculum provides students with the opportunity to study various regions and civilizations. In addition, it enables them to investigate issues and themes from multiple perspectives and make global connections that lead to in-depth understanding of world history and geography. The focus of this course is on the time period 1750 A.D. to the 21st Century. The NYS Global History and Geography II Regents Examination is given in June of sophomore year.

Course Name/#: **U.S. History and Government (H) - 705**

Course Status: Required

Credit: 1

Additional Resources: Students will be required to purchase a review book from the school bookstore.

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 90% or better in Global History and Geography II.

Grade Level: 11

Course Level: Honors

Multiplier: 1.03

Description: This course is designed to focus on the New York State Learning Standards and Core Curriculum. The course begins with the colonial and constitutional foundations of the United States and explores the government structure and functions written in the Constitution. The development of the nation and the political, social and economic factors that led to the challenges our nation faced in the Civil War are addressed. Industrialization, urbanization and the accompanying problems are examined, along with America's emergence as a world power, the two world wars of the 20th century and the Cold War. Students explore the expansion of the federal government, the threat of terrorism and the place of the United States in an increasingly globalized and interconnected world. In addition to the required curriculum, students will read a variety of challenging texts that will enhance their in-depth understanding of course concepts. A New York State Regents examination is given in June.

Course Name/#: **U.S. History and Government - 706**

Course Status: Required

Credit: 1

Additional Resources: Students will be required to purchase a review book from the school bookstore.

Prerequisite: None

Grade Level: 11

Course Level: Regents

Multiplier: 1.00

Description: This course is designed to focus on the New York State Learning Standards and Core Curriculum. The course initiates with the colonial and constitutional foundations of the United States and explores the government structure and functions written in the Constitution. The development of the nation and the political, social and economic factors that led to the challenges our nation faced in the Civil War are addressed. Industrialization, urbanization and the accompanying problems are examined, along with America's emergence as a world power, the two world wars of the 20th century and the Cold War. Students explore the expansion of the federal government, the threat of terrorism and the place of the United States in an increasingly globalized and interconnected world. A New York State Regents examination is given in June.

Course Name/#: **A.P. United States History and Government - 707**

Course Status: Elective

Credit: 1

Fee: **\$250 plus cost of textbook and review book.**

Grade Level: 11

Course Level: **A.P.**

Multiplier: 1.06

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 92% or better in Honors Global History and Geography II.

Description: This course is an intensive study of American history from pre-Colonial origins to the 1990's. Students will develop an historical perspective, think critically about the causes and consequences of historical decisions, analyze primary and secondary sources and explain on-going themes in U.S. History. A cross curriculum research paper in conjunction with the English department is also an aspect of this course. Students will prepare to take the Advanced Placement Test in May. Students will also take the mandatory New York State Regents Examination covering U.S. History and Government given in June of Grade 11. ***The AP exam must be taken in May.*** Potential college credits awarded upon completion of the AP exam.

Course Name/#: **College Economics - 732**

Course Status: Required

Credit: .5

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 90% or better in US History and Government.

Grade Level: 12

Course Level: Honors

Multiplier: 1.03

Description: This course introduces basic principles of economics to analyze how economic decision to allocate resources are made at both individual and national levels. Topics covered include opportunity costs, specialization and trade, economic efficiency using marginal benefit and marginal cost approach, economic systems and importance of property rights, competition, individual responsibility, self-interest and incentive, role of product and resource markets, macroeconomic objectives, indicators and policies to influence national and global economic outcomes.

Course Name/#: **Economics (H) - 712**

Course Status: Required

Credit: .5

Prerequisite: In addition to the recommendation of the teacher, the student must possess an overall average of 90% or better in US History and Government.

Grade Level: 12

Course Level: Honors

Multiplier: 1.03

Description: This course explores basic economic concepts such as scarcity, division of labor, productivity, supply and demand, and equilibrium. The relationship between these fundamental economic concepts and real life events is emphasized. Current economic issues of inflation, unemployment, government's role in the economy, and international trade are also included. The course work involves several projects and a research paper

Course Name/#: **Economics - 713**

Course Status: Required

Credit: .5

Prerequisite: None

Grade Level: 12

Course Level: Regents

Multiplier: 1.00

Description: This course explores basic economic concepts such as scarcity, division of labor, productivity, supply and demand, and equilibrium. The relationship between these fundamental economic concepts and real life events is emphasized. Current economic issues of inflation, unemployment, government's role in the economy, and international trade are also included. The course work involves several projects and a research paper.

Course Name/#: **Participation in Government - 711**

Course Status: Required

Credit: .5

Prerequisite: None

Grade Level: 12

Course Level: Regents

Multiplier: 1.00

Description: In this course, student's use the knowledge and analytical thinking skills learned in grades 9-11 Social Studies courses to focus on the origins, structure, and functions of government at all levels in the nation. Emphasis is placed on intellectual factors that influenced the development of a republic based on the rule of law, freedom of opportunity, individual liberty, and representative democracy. The course also includes a detailed study of the Constitution of the United States and its provisions. Students go beyond the acquisition of facts to develop skills for collection, in-depth analysis, and interpretation of information important to the study of government. Students in this United States Government course engage in analysis of primary sources, including those specific to the founding of the United States, speeches, landmark Supreme Court cases, and relevant political commentaries. Participation in a student service project is required.

Course Name/#:	College Government - 728	Grade Level:	12
Course Status:	Required	Course Level:	College
Credit:	.5	Multiplier:	1.04
Fee:	\$225.00 plus cost of Textbook		
Prerequisite:	In addition to the recommendation of the teacher, the student must possess an overall average of 90% or better in US History and Government.		

Description: A course dealing with the philosophy, structure, functions and processes of our national government. Topics include the methods of political and historical analysis, the machinery of government, the political process and political behavior. Historical events and personalities in American politics will be used to illustrate the issues and processes of American government. **Three undergraduate credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	Introduction to Criminal Justice – 731	Grade Level:	12
Course Status:	Elective	Course Level:	College
Credit:	.5	Multiplier:	1.04
Fee:	\$100.00 plus cost of textbook		
Prerequisite:	Departmental Approval		

Description: This course is a college level introductory survey of the American criminal justice system providing an overview of the foundations and components of the criminal justice system, including substantive and procedural criminal law, police, courts, and corrections. The course also inspects the relationship and balance between the system's policies and the actual practice from a social and institutional context. A major emphasis will be placed on the criminal justice process and the interaction of various institutions within the criminal justice system. Key issues addressed will be the conflict between crime control and due process, major sources of crime data and legal aspects of policing. **Three undergraduate college credits are awarded** for this class through Mount St. Mary's College.

Course Name/#:	College Psychology - 724	Grade Level:	12
Course Status:	Elective	Course Level:	College
Credit:	.5	Multiplier:	1.04
Fee:	\$225.00 plus cost of textbook		
Prerequisite:	Departmental Approval		

Description: Emphasis in this course is on major aspects of human behavior and its adaptation to the environment. Topics include learning, motivation, emotional behavior, maturation, personality, behavior disorders, and therapies. Physiological factors in human behavior are emphasized. Topics will include the nervous system, perception, sensation, language, thinking and problem solving, creativity, states of consciousness, memory, statistical and scientific methodology. **Three undergraduate college credits are awarded** for this class through Mount St. Mary's College .

CHAMPAGNAT LEARNING CENTER

Course Name/#: **Champagnat Learning Center – 750/751**
Course Status: Required
Credit: 1.0 or .5
Prerequisite: IEP or 504 Plan

Grade Level: 9-12
Course Level: General
Multiplier: 1.00

Description: The Champagnat Learning Center is an academic program for students accepted at Our Lady of Lourdes with an IEP or 504. The program provides the necessary support, skills, tools, and direction for students to be successful. *An extra fee is required.*

GREYSTONE – MARIST COLLEGE

Fee: \$399.00

Grade Level: 11-12

College Credits: 3

Course Level: College

Prerequisite: Approval of Guidance Counselor and Assistant Principal of Academics

Description: The Greystone program offers college level courses through an online program at a significantly reduced rate to program participants. Marist College sponsors the state of the art e-learning environment, the Greystone Educational Environment whereby seniors have the opportunity to earn college credits and continue their course of studies in high school. Credits earned may be applied to degree programs at Marist College or may be transferred to other colleges or universities.

Students need to fill out the application, obtain their parent's and guidance counselors signature on the form and return it to the Assistant Principal for Academics who will fax it to Marist College. All OLL applications for the August and September courses should be faxed by **June 30, 2023**.

The Greystone online courses for Fall 2021 are all three-credit courses and tuition is still \$399 per course. **Registration for fall courses begins in April 2023.**

Fall 2023 (15 Week, 3 credit courses)

Sample Greystone courses running from August 26, 2023 through December 13, 2023 are:

- [BIOL 101L7s21](#) Topics in Biology CRN # 114896
- [CMPT 103L721](#) Technology for the 21st Century CRN # 10695
- [CMPT 103L722](#) Technology for the 21st Century CRN # 10696
- [HIST 101L721](#) American National Government CRN # 11626
- [MATH 130L721](#) Intro Statistics CRN # 10220
- [REST 103L721](#) _Intro to Religion CRN # 12387
- [REST 209L721](#) World Religions CRN # 1032
- [REST 209L722](#) World Religions CRN # 10658
- [PHIL 103L741](#) World-View Values CRN # 12429