

NOTRE DAME JUNIOR-SENIOR HIGH COURSE CATALOG 2026 - 2027



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MISSION

Notre Dame Catholic Schools provide a faith-based educational experience for children in grades Pre-K – 12, in a nurturing and intellectually stimulating environment, that prepares our students to successfully pursue lives committed to community with integrity, compassion, and service.

VISION

We aspire to an educational experience that prepares many more young minds to meet the increasing demands of our modern world, through cultivating our students' embrace of the myriad challenges facing our people and societies, of the rich diversity of religions, cultures, and traditions, and of dramatic advances in technology.

VALUES

The virtues of faith, hope, and charity guide us in every aspect of our educational enterprise, fostering a commitment to lives lived with honesty, integrity, compassion, and respect for the dignity of others.

ABOUT THIS CATALOG

Notre Dame Jr./Sr. High School presents this Course Catalog to aid families in selecting courses for the 2026-2027 school year. It is important that choices be carefully made. No student will be allowed to take a course without successfully meeting pre-requisites. It is also important that students discuss course selections with their families, teachers, and counselors. Graduation requirements should be carefully read. Decisions about courses are finalized at course selection time. This allows students to become responsible for their decisions and for school officials to plan for the overall educational program of the entire student body.

PROFILE OF A GRADUATE

Graduates of Notre Dame Junior/Senior High School will:

Live their Faith by....

- Knowing, understanding, and promoting the Catholic faith.
- Protecting and nurturing human life from conception to natural death.
- Exhibiting behavior and making decisions that reflect high moral character and values of our faith: Integrity, Honesty, Self-Control, and Concern for others.
- Serving God through service to others in society and the Church.
- Respecting the dignity of others, including those of other cultures and traditions as modeled by Jesus, with acceptance, empathy, compassion, and loving all.
- Sharing the gifts that one has developed with the community around them.
- Being good stewards of God's faith.
- Continuing to devote attention to their own ongoing faith formation and evangelization of others.
- Providing leadership to the Church and future generations.
- Becoming an ambassador of Notre Dame and her offerings.
- Exercising the theme of Head, Heart, and Hands.

Use their Educational Experiences by....

- Mastering a rigorous academic program with disciplined work and study skills.
- Continuing to build on a strong academic foundation provided in Catholic schools as life-long learners dedicated to academic excellence.
- Being effective communicators, orally, in writing, and through the use of technology.
- Using technology in an ethical manner to access and share information.
- Demonstrating the acquisition of life skills that promote cooperation, creative thinking, critical thinking, and problem solving in a variety of settings.
- Taking active roles as kind, productive, and responsible community leaders in order to make significant positive contributions within society.
- Demonstrating an appreciation for support of the Arts.
- Mentoring others in need of one's talents.
- Continuing to be a productive member of the Notre Dame Community.

GRADUATION REQUIREMENTS		
Required Credits for Graduation	Regents Diploma	Advanced Regents
Theology	4.0*	4.0
English Language Arts	4.0	4.0
Social Studies	4.0	4.0
Mathematics	3.0	3.0
Science	3.0	3.0
Spanish	1.0	3.0
Fine Arts	1.0	1.0
Physical Education**	2.0	2.0
Health Education	0.5	0.5
Elective Courses	5.5	3.5
Total Credits	28	28
*Students transferring to Notre Dame after grade 9 are only responsible for their grade level theology credits.		
**Naval Science satisfies the physical education credits required.		

REGENTS REQUIREMENTS
(Minimum Score: 65 on all)

REGENTS DIPLOMA
 One Regents Mathematics
 One Regents Science
 One Regents Social Studies
 English Language Arts
 One additional Regents *or*
 Spanish Checkpoint A Exam

ADVANCED REGENTS DIPLOMA
 Algebra I, Geometry, and Algebra II
 Biology and One additional Science
 One Regents Social Studies
 English Language Arts
 Spanish (Checkpoint B) *or*
 One additional Regents

MINIMUM CREDIT REQUIREMENTS

ALL STUDENTS MUST BE FULLY SCHEDULED WITH A MINIMUM OF 7 CREDITS PER ACADEMIC YEAR.

SERVICE REQUIREMENTS

<u>GRADE LEVEL HOURS</u>	
GRADES 7-8	16
GRADES 9-10	20
GRADES 11-12	30

COURSE OFFERINGS

All courses described in this course catalog are offered contingent upon student enrollment. Depending on student interest, some courses may not be offered every year. If you have questions related to a specific course offering, consult the school counselor. Every effort will be made to honor all student requests for courses, however, scheduling restraints due to single class offerings/conflicts may impede some requests.

PROMOTION POLICY

Promotion from one grade to the next is dependent upon satisfaction of requirements in all courses resulting in a passing grade. Promotion will also depend on satisfaction of required credit hours. Any student that fails a core course (English, Math, Science, Social Studies, Theology, or Spanish) will be required to attend summer school or re-enroll in the course the following year. Summer course offerings are not guaranteed. Students may take a maximum of two courses over the summer. All Regents requirements must be made up in summer school as well. Failure of two or more core courses may result in academic dismissal.

To be considered a 9th grader, a student must have successfully completed the following units of study: 2 units each of Theology, English, Social Studies, Science, Math, and Physical Education; 1/2 unit each of Music and Art, Technology, and Health; 1 unit High School credit of Spanish.

To be considered a 10th grader, a student must have a minimum of 7 credits including 1 credit each of English, Social Studies, Math, Science, Theology, Spanish, and ½ credit of Physical Education.

To be considered an 11th grader, a student must have a minimum of 14 credits including 2 credits each of English, Social Studies, Theology, Math, Science, 1 credit of Spanish and Physical Education.

To be considered a senior, a student must have a minimum of 21 credits, including: 3 credits each of English, Social Studies, Theology, Math, and Science; 1 credit of Spanish; and 1.5 Physical Education credits.

TRANSFER CREDITS

Students who transfer to Notre Dame from a public school or from another state or country will have their most recent transcript reviewed by the school counseling department in consultation with the school administration to determine what credits may be accepted and whether they meet the requirements for graduation both at Notre Dame and in New York State.

ADDING/DROPPING COURSES

Parent/Guardian, counselor, and teacher consultation must take place before a student can drop a course. Courses may not be dropped after the 10 week marking period for full-year courses, and five week marking period for semester courses. If a course is dropped after the deadline, the student will receive a withdrawal fail/withdrawal pass (WF or WP) on the report card, as appropriate. Course changes will not begin without written notification from the Counseling Office to the appropriate teacher.

COURSE LEVEL CHANGES

Level changes are a serious decision and should reflect sincere consideration of student ability. Level changes are not made for behavioral or motivational reasons. (Example: Spanish II to Spanish I). Please contact the Counseling Office if you have any questions. All level changes MUST occur by the midpoint of the course.

1. Such changes should be teacher initiated. (In the event of a student or parent requesting a level change, it MUST be discussed with the teacher first).
2. The Counselor will discuss with the administration the plan of action to be considered before providing the final decision to the parent(s) and student.

CLASS STANDING

Class standing is determined by multiplying the final grade earned in each course completed by the credit(s) earned for the course, and then by the course weight. The results are added, and the weighted average is determined. This determines the student's class standing. Course weight is a factor predetermined for the course by the course's level of difficulty.

Courses taken off the school campus, unless in the case of summer school or for NYS diploma requirements, will not be counted in class standing or included on the transcript.

Final class standing will be determined at the end of the third marking period in the senior year. At this time, the Valedictorian, Salutatorian, and the rest of the top 10 students will be named by the principal.

COURSE WEIGHTING

The following courses carry Honors Weight:

- All Advanced Placement (AP) Courses (1.1)
- All dual credit courses (1.05)
- All Honors level/Naval Science courses (1.03)
- Regents level courses (1.02)

HONOR ROLL

Honor Roll standing is based on the average of all numerically graded subjects inclusive of Physical Education. GPA does NOT get rounded up for Honor Roll. Students must be enrolled in at least six academic courses and may not receive any failing grades in the quarter to be eligible.

Principal's List	95 – 100 Average
High Honors	90 – 94 Average
Honor Roll	85 – 89 Average

HONORS DIPLOMA

A student will receive a Regents diploma “with honors” for a combined average of at least 90% on the 5 required comprehensive Regents Examinations. A student will receive a Regents diploma with Advanced Designation “with honors” for a combined average of at least 90% on the 8 required comprehensive Regents Examinations.

REGENTS COURSE CREDIT

To receive course credit for a Regents course, students must successfully complete both the course and the associated exam.

ADVANCED PLACEMENT & HONORS LEVEL COURSE POLICY

Advanced placement and Honors level courses are designed to challenge the more gifted student. Entry into such courses requires the understanding that the student is well-motivated and willing to accept the increased academic work. All students taking an AP course must pay for and take the corresponding AP exam.

The prerequisites for AP and Honors courses are as follows:

1. Cumulative average of at least 85%
2. Cumulative average of at least 90% in the subject area.
3. Some courses may have additional requirements, please see course description.

DUAL CREDIT COURSES

In partnership with Mohawk Valley Community College, Notre Dame offers a wide variety of dual credit courses taught on campus by our teachers. Students who enroll in and successfully complete these courses will be awarded college credit thru MVCC. Some courses may require students to sit for a placement test. To receive credit thru MVCC students must maintain a C average or better in the course. These credits are transferrable to any/all SUNY schools and most other colleges/universities. A small registration fee (about \$40) may apply. Students can earn as many as 44 college credits through our current offerings which is nearly the equivalent of 3 semesters of college completed taught with the personal attention of our own faculty.

UTICA UNIVERSITY BRIDGE PROGRAM

Utica University offers juniors and seniors, who meet the admission criteria and prerequisites, the ability to take any course they offer for a significantly reduced fee. The availability of such programs varies from semester to semester and is permitted as time and schedule allow. Grades and credits received in these courses will not show on the student’s Notre Dame Transcript and will not be factored into the student’s cumulative average. Courses taken off campus cannot take the place of courses required for graduation.

AREA CAREER / TECHNOLOGY EDUCATION

Students interested in a BOCES program should speak directly with his/her Guidance Counselor for direction and information. The BOCES Program is primarily designed for high school students interested in course offerings developed considering actual or anticipated opportunities for employment. These courses are suited to the needs, interests, and abilities of students who can profit from such instruction. The BOCES program is an extension of the home school. Students continue to maintain their identity with the home school attending BOCES on a half day basis and taking the other half day of classes at Notre Dame.

Programs include Advanced Culinary Arts, Advertising Design, Animal Science, Auto Body Repair, Automotive Technology, Certified Mi-Tech New Ventures Fire Science, Conservation, Construction Trades, Cosmetology, Criminal Justice, Culinary Arts, Early Childhood Education, Electricity, Emerging Technologies & Cyber Security, Food Service Occupations, Nurse Assistant, Outdoor Power/Recreational Equipment Technology, Welding

New Visions programs in Business Management, Communications, Education, Engineering Technology, Health Professions, Legal Professions, Performing Arts, Veterinary Science careers are designed for *college bound seniors with 85+ averages and are offered on a competitive basis.*

NCAA CLEARING HOUSE

There are specific academic requirements for scholar athletes wishing to attend higher education institutions whose athletic programs are under the jurisdiction of the National Collegiate Athletic Association (NCAA). Student-athletes in grades 9-12 anticipating participation in inter-collegiate sports are to check the NCAA Division I and II freshman-eligibility standards and register with the NCAA Initial-Eligibility Clearinghouse. Information pertaining to both the standards and the Clearinghouse is available through your School Counselor or online at <http://eligibilitycenter.org>.

RESOURCE ROOM

This program is designed for and restricted to students who are classified Learning Disabled and have a formal IEP (Individual Educational Plan). Students must be capable of learning appropriate grade level concepts within the classroom. The Resource Teacher assists the students in meeting their IEP goals, as well as providing support in academic schoolwork. Classroom teachers work in conjunction with the Resource teacher to provide the best educational setting and methods for each individual student.

JUNIOR HIGH SCHOOL ACADEMIC PROGRAM

Grade 6	Grade 7	Grade 8
ENGLISH		
English 6	English 7	English 8
SOCIAL STUDIES		
Social Studies 6	Social Studies 7	Social Studies 8
MATHEMATICS		
Math 6	Math 7	Math 8
SCIENCE		
Science 6	Living Environment 7	Physical Setting 8
THEOLOGY		
Theology 6	Theology 7	Theology 8
Spanish		
Intro to Spanish	Spanish 1a	Spanish 1b
ARTS		
Art 6 Music 6 Band Chorus	Music 7 Band Chorus	Art 8 Band Chorus
NAVAL SCIENCE		
		Naval Science 1
PHYSICAL EDUCATION & HEALTH		
Physical Education 6	Physical Education 7-8 Health 7	Physical Education 7-8
BUSINESS & TECHNOLOGY		
PLTW Design/Modeling	PLTW Design/Modeling Automation/Robotics	App Creators



SENIOR HIGH SCHOOL ACADEMIC PROGRAM

Grade 9	Grade 10	Grade 11	Grade 12
ENGLISH			
English 9	English 10	English 11 English 11 Honors Film Appreciation Creative Writing Intro to Theatre	MVCC EN101/102 AP Lit./Comp. Film Appreciation Creative Writing Effective Speech
SOCIAL STUDIES			
Global History 1	Global History 2 AP World History Historical Writing	US History & Gov't AP US History Intro to Sociology	Government / Economics AP Psychology Intro to Sociology
MATHEMATICS			
Algebra 1 Geometry	Geometry Topics in Geometry Algebra 2	Geometry Algebra 2 Topics in Algebra 2 Pre-Calculus	Algebra 2 Pre-Calculus MVCC MA 110/115 AP Calculus AB Math 12: Arithmetic
SCIENCE			
Biology Earth & Space Science	Biology Earth & Space Science Chemistry	Chemistry Conceptual Chemistry Physics Conceptual Physics MVCC BIO105 Env. Sci.	Chemistry Physics Conceptual Physics MVCC BIO105 Env. Sci. Nano Technology
THEOLOGY			
Theology 9	Theology 10	Theology 11	Theology 12
SPANISH			
Spanish 2	Spanish 3	MVCC SP191/192	MVCC SP191/192 MVCC SP201/202
ARTS			
Studio Art Band Chorus	Drawing & Painting Band Chorus	Drawing & Painting Art Portfolio Band/ Chorus	Art Portfolio Portfolio Development Band/ Chorus
NAVAL SCIENCE			
Naval Science 1-2	Naval Science 1-3	Naval Science 1-4	Naval Science 5
PHYSICAL EDUCATION & HEALTH			
Phys. Ed. 9-12	Phys. Ed. 9-12 Health 10	Physical Education 9-12	Physical Education 9-12
CAREERS & ENGINEERING			
Intro to Engineering Design (IED)	IED Principles of Engineering Intro to Business Mgmt. (Sports) Marketing Personal Finance Criminal Justice	IED Principles of Engineering Intro to Business Mgmt. (Sports) Marketing Personal Finance Criminal Justice	IED Principles of Engineering Intro to Business Mgmt. (Sports) Marketing Personal Finance Criminal Justice

ARTS PROGRAM

Chorus | Grades 6-8 | Full Year

This course meets in an ensemble rehearsal setting. This elective meets New York State requirements for Music and Fine Arts. Students will prepare music for school liturgy and concerts. Musical selections will be drawn from a variety of styles and repertoires.

Music 6 | Grade 6 | Full Year, every other day

This course explores music through singing, instruments, listening, and creating. Students will learn basic music theory, play recorders and percussion, analyze diverse musical styles, and compose simple pieces. We'll explore music's history and global cultures, fostering a lifelong appreciation for music.

Music 7 | Grade 7 | 1 Semester

Students will write, speak, create, analyze, and perform music through a basic knowledge of musical concepts and terminology. Class activities include listening and responding to a variety of music genres through individual and group projects. Students will increase their understanding of how music connects to other disciplines and its relationship to history and culture.

Concert Band | Grades 6-12 | Full Year

Students will work in lessons and in band towards the goal of outstanding performance. Students will establish correct instrumental techniques and strengthen critical listening skills as performers. Musicianship will be developed through good intonation, balance, blend, tone, appropriate style, and quality repertoire.

Art 6 | Grade 6 | Full Year, every other day

This course fosters creativity and artistic exploration through diverse media. Students will learn fundamental art skills, including drawing, painting, sculpture, and design, while exploring art history and various artistic styles. Emphasis is placed on developing individual expression and critical thinking through hands-on projects.

Art 8 | Grade 8 | 1 semester

Art 8 is a two-term course that introduces students to a variety of art experiences that develop the students' visual awareness and respect for the creative process, including respect for their own artwork, other classmates' artwork, and their art materials. The students will develop their art skills and projects using the Elements of Art and Principles of Design, along with regular sketchbook assignments and related project vocabulary words. Use of the color wheel and line will be emphasized throughout projects, and multi-cultural and art history projects will be completed by the students. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Arts Standards.

Studio Art | Grades 9-12 | Full Year

Studio Art is a full year course that satisfies the New York State fine arts graduation requirement. The student will be given a wide variety of studio experiences in which to explore the continued use of Elements of Art and Principles of Design using various media. Movements and trends in art history will be studied. Students will study and recognize, understand, and compare many different types of artwork, artists, and media during the course. Regular sketchbook assignments and related project vocabulary words will be completed. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Arts Standards.

Drawing and Painting | Grades 10-12 | Full Year

Drawing and Painting is a full year course that continues to develop the students' observation skills and exploration of the techniques of drawing and painting media, such as pencil, charcoal, pen and ink, pastels, watercolors, paint, etc. Problems in composition and the use of color are considered, as well as the development of individual style. Emphasis is placed on drawing from life, including drawing man-made and natural objects and drawing and movement from the human figure. Various artists and art history will be incorporated into the course, along with the creation of traditional subject matter such as still life, landscapes, portraits, etc. Regular sketchbook assignments and related project vocabulary words will be completed. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Standards. ***Prerequisite: Successful Completion of Studio Art***

Art Portfolio | Grades 11-12 | Full Year

Art Portfolio is a full year course that continues to explore a variety of media and techniques with students having more freedom to create their projects, building on their experiences gained in previous studies and art projects. An emphasis on art works in their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity will take place. Discussion about composition, portfolio preparation, art career exploration, and art colleges will take place if required. Students will develop more advanced drawing and painting skills and will start the process of collecting artwork pieces for their portfolio for admission to an art school senior year, if desired. Regular sketchbook assignments and related project vocabulary words will be completed. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Arts Standards. ***Prerequisite: Successful Completion of Studio Art and Drawing and Painting***

Portfolio Development | Grade 12 | Full Year

Portfolio Development is designed for serious art students who love art and/or are planning on attending a college with art as their major. A heavy emphasis will be on the student creating a portfolio of work that is tailored to the specific college requirements with preparing a digital portfolio possible, if needed. Students will utilize all the skills they have mastered from all previous art courses to create artwork with many different media and techniques that have the students own individual style to them. A continued study of artists, art history, movements and trends in art, and multi-cultural projects will be included, with the student interest directing the projects. Regular sketchbook assignments and related project vocabulary words will be completed. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Arts Standards. ***Prerequisite: Successful Completion of Studio Art and Drawing and Painting, and Art Portfolio***

Independent Art | Grades 10-12 | Full Year

An independent art class can be completed by an upper classman who desires to take an art class but doesn't have room in their class schedule for one. This request must be made through the guidance department and granted permission by the art teacher. The student must be responsible for all course material that is assigned and meet with the art teacher at least two times every week to show what work they have completed. Regular sketchbook assignments and related project vocabulary words will be completed. All pieces of artwork are graded with a rubric, and all projects will comply with the National Visual Arts Standards. *Prerequisite: Successful Completion of Studio Art*

CAREER & ENGINEERING PROGRAM

Design & Modeling | Grades 6-7 | 1 Semester

Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. Students design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

Automation & Robotics | Grades 7-8 | 1 Semester

The students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects, such as traffic lights, toll booths, and robotic arms.

App Creators | Grade 7-8 | 1 Semester

This class will expose students to computer science by computationally analyzing and developing solutions to authentic problems through mobile app development, and will convey the positive impact of the application of computer science to other disciplines and to society. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture.

Introduction to Engineering Design | Grades: 9-12 | Full Year

Students use the engineering design process to solve problems, applying CAD, 3D printing, and computational methods. They develop professional skills like project management and ethical analysis through team-based projects.

Principles of Engineering | Grades 10 – 12 | Full Year

Students learn engineering basics, using 3D modeling, prototyping, and programming to solve real-world problems in fields like robotics and sustainability.

Broadcast Media & School Communications | Full Year

Broadcast Media & School Communications is a project-based elective course in which students plan, write, produce, and deliver the school's morning announcements and publish a weekly digital newsletter. The course operates using a professional newsroom model and emphasizes writing, collaboration, communication, and accountability.

Introduction to Business | Grades: 10 -12 | 1 Semester

This course presents the relationships among social, political, economic, legal, and environmental forces, and the development and operation of business in a global economy. It includes an overview of the concepts and principles of the various subfields of business accounting, management, finance, marketing, law, ethics, human resources, and general business as well as current topics of interest, and internet research and simulation exercises.

Introduction to Marketing | Grades 10 – 12 | 1 Semester

This course covers an introduction to marketing, business-to-business marketing, services marketing, branding, social media marketing, and marketing ethics. Students will learn about marketing plans and strategies businesses use to market their products.

Personal Finance | Grades: 10-12 | 1 Semester

This course teaches the fundamentals of personal finance through the creation of a financial plan, management of personal finances, and reaching personal financial goals. Topics include the establishment of financial objectives (home ownership, education, and retirement), budgeting and savings, personal income tax, investments (stocks, bonds, and mutual funds), retirement, and estate planning. The effective use of and management of credit is covered.

Criminal Justice (CJ101)| Grades: 10-12 | 1 Semester

This course introduces the basic elements of the American criminal justice system, from its legal roots and history to its most current concerns. It analyzes the criminal justice process - from arrest to trial and disposition - emphasizing the function and structure of each component. It provides an understanding of how each component responds to crime and how the key question of individual rights and public safety is addressed. Attention is given to the elements of crime, the role of the police, courts, and corrections, and to the challenges facing this system in an increasingly diverse democratic society.

ENGLISH PROGRAM

A comprehensive vocabulary, writing portfolio, summer and independent reading program exists at all levels of English Language Arts, grades 6-12. Students in grades 6-8 are prepared for the NYS ELA Tests each year. Students in grades 9-11 are prepared for the NYS ELA Regents.

English 6 | Grade 6 | Full Year

This course strengthens reading, writing, and communication skills. Students analyze diverse texts, develop effective writing techniques, and enhance vocabulary and grammar through engaging activities.

English 7 | Grade 7 | Full Year

English 7 is a full year course designed to develop skills in the areas of reading comprehension, literary interpretation, analysis, critical thinking, writing, speaking, and listening in adherence with state standards. Development of expository, descriptive, narrative, and persuasive writing skills are included, along with a focus on the writing process. Students will engage in various projects to aid in their ability to work both independently and collaboratively with their peers. Students will study short stories, poetry, mythology, drama, and novels. These skills will be augmented by the study of vocabulary and grammar practice. This course will help students develop successful study skills and will prepare them for the New York State Common Core ELA 7 Test. Major works to be studied include but are not limited to: *The Outsiders* by S.E. Hinton and *A Christmas Carol* by Charles Dickens.

English 8 | Grade 8 | Full Year

English 8 is a full year course which is designed to continue developing skills in the areas of reading comprehension, literary interpretation, analysis, critical thinking, writing, speaking, and listening in adherence with state standards. Continued development and refinement in the areas of expository, descriptive, narrative, and persuasive writing skills are included. Students will engage in various projects to aid in their ability to work both independently and collaboratively with their peers. Students will study short stories, poetry, mythology, drama, and novels. These skills will be augmented by the study of vocabulary and grammar practice. This course will help students develop successful study skills and will prepare them for the New York State Common Core ELA 8 Test. Major works to be studied include but are not limited to: *The Lord of the Flies* by William Golding, *The Boy Who Dared* by Susan Campbell-Bartolotti, *Night* by Elie Wiesel, and *Mississippi Trial, 1955* by Chris Crowe.

English 9 | Grade 9 | Full Year

English 9 is a full year course. Students continue to broaden their skills in the areas of reading comprehension, literary interpretation, rhetorical analysis, critical thinking, research, writing, speaking, and listening in adherence with state standards. Students will engage in various projects to aid in their ability to work both independently and collaboratively with their peers. Students will study short stories, poetry, classical Greek mythology, Shakespearean drama, and novels. These skills will be augmented by the study of SAT preparatory vocabulary and grammar practice. Major works to be studied include but are not limited to: *The Tragedy of Romeo & Juliet* by William Shakespeare, *Mythology* by Edith Hamilton,

To Kill a Mockingbird by Harper Lee, *A Separate Peace* by John Knowles, and *Speak* by Laurie Halse Anderson.

English 10 | Grade 10 | Full Year

English 10 is a full year course. Skills in the areas of reading comprehension, literary interpretation, rhetorical analysis, critical thinking, research, writing, speaking, and listening in adherence with state standards are reinforced. Students will engage in various projects to aid in their ability to work both independently and collaboratively with their peers. Students will study short stories, poetry, classical Greek mythology, Shakespearean drama, and novels. These skills will be augmented by the study of SAT preparatory vocabulary and grammar practice. Major works to be studied include but are not limited to: *The Tragedy of Julius Caesar* by William Shakespeare, *The Iliad* of Homer, *The Strange Case of Dr. Jekyll and Mr. Hyde* by R.L. Stevenson, *19 Minutes* by Jodi Picoult, and *The Kite Runner* by Khaled Hosseini.

English 11 | Grade 11 | Full Year

English 11 is a full year course and is a survey of American literature. Students continue to develop and refine their skills in the areas of critical reading and reasoning, literary interpretation, rhetorical analysis, research, writing, speaking, and listening in adherence with state standards. Students will take the New York State Common Core English Language Arts Regents Exam in January with a local examination being administered in June. Students will engage in various projects to aid in their ability to work both independently and collaboratively with their peers. Students will study short stories, poetry, drama, and novels. These skills will be augmented by the study of SAT preparatory vocabulary and grammar practice. Major works to be studied include but are not limited to: *The Crucible* by Arthur Miller, *Of Mice and Men* by John Steinbeck, *The Catcher in the Rye* by J.D. Salinger, *The Merchant of Venice* by William Shakespeare.

English 11 Honors | Grade 11 | Full Year

In addition to those skills fostered in English 11, this course is designed for those who possess both a strong interest as well as refined skills in English Language Arts. It is designed to be more rigorous than English 11 and is writing, independent reading, and discussion intensive. English 11 Honors also prepares students for AP English Literature and Composition which is offered their senior year.

Prerequisite: Cumulative High School English Language Arts average of 90 or higher, a cumulative GPA of 85 or higher, recommendation of 10th grade English teacher

EN 101 English 101: Composition | Grade 12 | 1 Semester

This course focuses on several kinds of writing, such as self-expressive, informative, argumentative/persuasive, and others. A minimum of five written compositions are required. The course emphasizes the composition of clear, correct, and effective prose required in a variety of professions and occupations. Student Learning Outcomes include:

- 1) Demonstrate the ability to communicate ideas in a clear and concise manner through informative, argumentative, formal and informal writing at a level suitable for successful college students.
- 2) Broaden the student's intellectual autonomy and their ability to use language for the purpose of reading, writing, communicating, and critical thinking.

- 3) Gain a practical understanding of primary and secondary sources and how to properly utilize and cite these sources.
- 4) Exhibit clear concise writing skills in both professional and academic writing.
- 5) Achieve a level of writing fluency satisfactory for success in college courses.
- 6) Display a clear understanding of proper documentation procedures to avoid plagiarism.

Major assignments include but are not limited to: research papers, cover letters, resumes, and college application essays. **Prerequisite: Successful completion of English 11 and passing score on placement exam or satisfactory SAT writing score.**

EN 102 English 102: Ideas & Values in Literature | Grade 12 | 1 Semester

This course encourages a deeper understanding of human nature and the human condition through the study of ideas and values expressed in imaginative literature. Emphasis is placed on the use and development of critical thinking and language skills. Students will engage in a study of poetry as well as classic literature. Additionally, research will be conducted through the lens of literary works for writing assignments. Some major texts include but are not limited to: Macbeth by Shakespeare and Oedipus the King by Sophocles. Library-oriented research is required. **Prerequisite: Successful Completion of EN 101.**

AP Literature & Composition | Grade 12 | Full Year (NOT OFFERED 2026-2027)

Advanced Placement English is a college level course and is designed for the student who enjoys reading, discussing, and writing about literature on an advanced level. Emphasis is placed on the close reading of classic literary works. Featured authors include but are not limited to: Shakespeare (Hamlet & King Lear), Brontë (Jane Eyre & Wuthering Heights), Sophocles (Oedipus the King), Shelley (Frankenstein), and Ellison (Invisible Man). Additionally, students are given access to a wide collection of AP-level texts and complete independent study with their selections throughout the year. From this collection, students can choose to explore the works of authors such as Conrad, Angelou, Dickens, Heller, Chaucer, Huxley, and Dostoyevsky, to name a few. Moreover, students will study poetry, drama, and all types of fiction via the critical lens of literary theory and analysis.

The course also is designed to prepare the student for the College Board AP English Literature and Composition exam that all enrollees in the course are required to take and for which there is a fee. This exam requires the student to demonstrate reading and writing proficiency in the context of college level texts. Throughout the year, students will be familiarized with the exam format and expectations through several “AP test prep days.” To aid in this preparation, students will need to purchase an AP English Literature review book at the beginning of the year.

In addition to preparing for the AP exam to be administered in May, students will satisfy the requirements of EN 101 and 102 upon conclusion of the year. As such, by the time they graduate, they will have been eligible for up to 6 college credits in addition to the potential AP credit, dependent on exam performance. **Prerequisite: Cumulative High School English Language Arts average of 90 or higher, a cumulative GPA of 85 or higher, and recommendation of 11th grade English teacher.**

EN 150: Effective Speech | Grades 12 | 1 Semester

This course is an introduction to public speaking. It emphasizes the fundamentals of preparing, organizing, supporting, and delivering the speech based on factual material. It includes topic selection, audience analysis, fact vs. opinion, outlining, supporting material, and visual support. Informative, demonstrative, and persuasive speeches are presented. Elements of interpersonal communication, logic, and persuasion are discussed.

The students will be able to prepare, organize, support, and deliver speeches based on factual material, analyze audiences, and select appropriate topics, distinguish fact from opinion, demonstrate basic elements of interpersonal communication, such as non-verbal communication and the use of audio-visual aids, demonstrate proper techniques of logic and persuasion, show self-confidence in the public speaking situation, and identify and use credible sources of information. ***Prerequisite:*** ***Successful completion of EN 101***

HU 188: Film Appreciation | Grades 11-12 | 1 Semester

This course examines the development of film as a medium of artistic expression. Topics include cinematic vocabulary, camera techniques, editing, sound, auteur theory, and personalities. Feature films are analyzed during the laboratory component.

TH 193: Intro to Theatre | Grades 11-12 | 1 Semester

This course introduces the foundations of theater art. Emphasis is placed on the theatrical production process. Topics include theater spaces, directing, acting, scene design, and professional work opportunities. Theater experiences from the Greek festival theater to the present are discussed.

Creative Writing | Grades 10-12 | 1 Semester

This course provides students with the opportunity to build on their writing skills in the context of creative pieces. Students will examine various forms of creative fiction including short stories, drama, and poetry. They will learn the features specific to these forms of writing and will ultimately create a portfolio to include these plus other personal artifacts. This course works to help students gain confidence in themselves as authors and helps to spark the creativity that will benefit them in all forms of writing.

MATHEMATICS PROGRAM

Math 6 | Grade 6 | Full Year

This course develops fluency in ratios, rates, fractions, decimals, and percentages, aligning with NYS standards. Students explore algebraic expressions, solve one-variable equations, analyze geometric shapes, and interpret statistical data, preparing them for advanced mathematics.

Math 7 | Grade 7 | Full Year

Math 7 is aligned with the NYS Next Generation Standards. The course's focus is on analyzing proportional relationships and applying them real-world and mathematical problems, applying and extending the students' prerequisite knowledge of operations with fractions to add, subtract, multiply and divide rational numbers, use properties of operations to generate equivalent expressions, solve real-life and mathematical problems using numerical and algebraic expressions, equations, and inequalities, draw, construct, and describe geometrical figures and describe the relationships between them, solve real-life and mathematical problems involving angle measure, area, surface area, and volume, use random sampling to draw inferences about a population, draw informal comparative inferences about two populations, and investigate chance processes and develop, use and evaluate probability models.

Math 7 Honors | Grade 7 | Full Year

Math 7 Honors is a Pre-Algebra course that encompasses both Math 7 and Math 8 NYS curriculums into one year for accelerated students. Key concepts include numeric and algebraic expressions, linear equations, ratios and proportional relationships, geometry, statistics, probability, and an introduction to functions. This course is designed to prepare students to take Algebra I in 8th grade as a pathway to Advanced Placement or dual credit courses in their senior year. **Placement is determined by scores on the iReady diagnostic tests (must score "above grade level" on each), 6th grade math average of 93+, and teacher recommendation.**

Math 8, Pre-Algebra | Grade 8 | Full Year

Math 8 is aligned with the NYS Next Generation Standards. The course's focus is on irrational numbers and their approximations, simplifying radicals and integer exponents, making connections between proportional relationships, lines, and linear equations, analyzing and solving linear equations and pairs of simultaneous linear equations, define, evaluate, and compare functions, use functions to model relationships between quantities, use physical models, transparencies, or technology to understand congruency and similarity, understand and apply the Pythagorean Theorem, solve real-world and mathematical problems involving volume of cylinders, cones, and spheres, and investigate patterns of association in bivariate data.

Algebra I | Grades 8-9 | Full Year

Algebra I is the first mathematics New York State Regents high school course aligned with the New York State Next Generation Standards that the students of Notre Dame need to successfully complete. The course's focus is on functions, such as linear, quadratics, exponential, square, and those that are piecewise defined, including absolute value and step. The students will be able to analyze and specifically describe the processes, interpret, and write expressions, develop and apply the correct terminology of polynomials, create and reason with equations and inequalities, perform arithmetic with polynomials and rational expressions, build and interpret functions, and interpret categorical and quantitative data.

Geometry | Grade 10-11 | Full Year

Geometry is the second mathematics New York State Regents high school course aligned with the New York State Next Generation Standards. The course builds upon all the 8th grade geometry standards. It is vital that the students successfully complete 8th grade mathematics and score well on the geometric standards. In 8th grade, the students are asked to verify experimentally the properties of rotations, reflections, and translations. In Geometry, the students will use the geometric descriptions (properties of rotations, reflections, and translations) to transform figures and predict the effect of given rigid motions on a given figure. In 8th grade, the students are to know that a 2-D figure is similar to another if the corresponding angles are congruent, and the corresponding sides are in proportion. In Geometry, the students will be expected to learn the many theorems and apply them correctly in multi-step proofs and algebraic problems. In Geometry, the students will be introduced to trigonometry as they describe how triangles are congruent or similar (to prepare for Algebra II) using their prerequisite knowledge from middle school where they learned ratios of triangles, complementary angles, special right triangles, and the Pythagorean Theorem, and also make, justify, and apply formal geometric constructions using a compass and ruler. The students will also prepare for Algebra II by extending upon their prerequisite knowledge of circles from the 8th grade standards and building that knowledge with the geometric standards of Geometry by deriving the equation of a circle of a given center and radius using the Pythagorean Theorem, find the center and radius of a circle, given the equation of the circle, graph the circle given their equation, prove that all circles are similar, identify, describe, and apply relationships between angles and their intercepted arcs as well as among their radii, chords, tangents, and secants, and find the central angle, arc length, radius or area of sector. At the end of the course, the students will take the Geometry Regents exam. ***Prerequisite: Successful completion of Algebra I.***

Topics and Applications of Geometry | Grades 10-11 | Full Year

This is an introduction to Geometry covering the basic topics without most proofs. Some of the topics are Locus, Logic, Properties of Triangles, Parallel Lines, Quadrilaterals, Similarity, Constructions, Coordinate Geometry, Parabolas and Circles, Solids, and Transformations. Students will NOT sit for a NYS Geometry Regents Examination at the end of this course. Students will be required to sit for a final at the end of the class. Graphing calculators will be required.

Algebra II | Grade 10-12 | Full Year

Algebra II is the third mathematics New York State Regents high school course aligned with the New York State Next Generation Standards. We recommend that all our college-bound students successfully complete this course. Algebra II is an extremely rigorous course that builds upon the knowledge that the students successfully learned in Algebra I and Geometry. The students will take their prerequisite

knowledge of linear, quadratic, and exponential functions and further develop their understanding to include polynomial, rational, radical and trigonometric functions and their graphs. The students will learn about the structure of expressions and be able to rewrite them in different forms by factoring by grouping and factoring sum and difference of cubes. The student will examine the end behavior of rational functions. The students will be introduced to logarithmic functions and learn how to simplify them across all operations. The students will also extend their knowledge from Geometry on circles and learn about the unit circle and radian measures. The students will also extend their knowledge of interpreting categorical and quantitative data to include making inferences and justifying conclusions and conditional probability and the rule of probability. At the conclusion of the course, the students will take the Algebra II Regents exam. **Prerequisite: Successful completion of Algebra I and Geometry.**

Topics and Applications of Algebra II | Grade 11 | Full Year

Algebra II expands and develops the study of the topics learned in Algebra 1. New topics covered include sequences and series, complex numbers, logarithmic, exponential and polynomial functions. Students are also introduced to conic sections and systems of equations involving more than two variables. This is a non-Regents course.

Pre-Calculus | Grades 11-12 | Full Year

This course prepares students for calculus through a study of the properties and graphs of polynomial, rational, trigonometric, inverse trigonometric, exponential, and logarithmic functions. Topics include an introduction to mathematical argument and conic sections. Emphasis is placed on the function concept and the appropriate use of the language of mathematics. **Requirement: 85% or higher in Algebra I, Geometry, & Algebra II. An 85% or higher must be maintained throughout the course.**

Math 12/Arithmetic | Grade 12 | Full Year

This course is for students who, according to Regents result and teacher recommendations, need preparation for subsequent mathematics courses. It develops basic skills by focusing on language and concepts. Topics include whole numbers, integers, rational numbers, and decimals.

AP Calculus AB | Grade 12 | Full Year (NOT OFFERED 2026-2027)

AP Calculus AB is equivalent to a first-semester college calculus course. Calculus is the mathematics of change and motion. The students will explore the concepts, methods, and applications of differential and integral calculus. The students will work to understand the theoretical basis and solve problems by applying their knowledge and skills, such as determining expression and values using mathematical procedures and rules, justifying reasoning and solutions, connecting representations, and using correct notation, language, and mathematical conventions to communicate solutions. The will learn about limits and continuity, the derivative and techniques of differentiation, the mean value theorem, extreme problems, related rates, the fundamental theorem of calculus, the definite integral and techniques of integration, slope fields, and area and volume problems. The students will build upon their knowledge of the properties and solving equations of linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piece-wise functions and learn about the derivatives and integrals of them. The AP Exam, given in May, is the deciding factor in granting of college credit. **Prerequisite: 90% or higher in Algebra I, Geometry, Algebra II, and Precalculus. An 85% or higher must be maintained throughout the course.**

MA 110 Elementary Statistics | Grade 12 | 1 Semester

This course introduces probability and statistics. Topics include graphs, tables, frequency distributions, measures of central tendency and dispersion, normal distribution, correlation and regression, probability, and inferential statistics. This course is available in two formats: lecture only, or lecture plus laboratory using technology. ***Prerequisite: Appropriate high school GPA or placement test score.***

MA 115 Intermediate Mathematics | Grade 12 | 1 Semester

This course introduces intermediate algebra-level knowledge and skills. Topics include exponents and radicals, polynomial and rational expressions, functions and relations and their graphs, inequalities, and systems of linear equations. Linear, quadratic, rational, and radical equations are solved. Applications are included. ***Prerequisite: Appropriate high school GPA or placement test score.***

NAVAL SCIENCE PROGRAM

Naval Science I | Grades 8-11 | Full Year

NS I introduce students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. We strive to promote an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress and drug awareness. We will provide the students with the principles of health and first aid, geography, survival skills and an overview of Naval ships and aircraft. The course content includes an introduction to the NJROTC program, to Leadership, Citizenship and the American Government, to Wellness, Fitness and First Aid, which includes diet, exercise, and drug awareness, to Geography, Orienteering, Survival and Map reading skills, and to the U.S. Navy.

Naval Science II | Grades 9-11 | Full Year

NS II builds on the general introduction given in NS I. We will look to further develop the traits of citizenship and leadership. The cadets will be introduced to the technical areas of naval science, the role of the U.S. Navy in maritime history, and the vital importance of the world's oceans to the continued well-being of the United States. The course content includes ongoing instruction in Leadership. The cadets will be introduced to Maritime History, including the American Revolution, Civil War, the rise of the U.S. to world power status, World Wars I and II, the Cold War era, and the 1990's and beyond. The cadets will also study the Nautical Sciences, such as Maritime Geography, Oceanography, Meteorology, Astronomy, and the Physical Sciences. ***Prerequisite: Naval Science I, Meets all promotion requirements and completion of Basic Leadership Training***

Naval Science III | Grades 10-11 | Full Year (11th grade half year)

NS III focuses on broadening the understanding of students in the operative principles of military leadership. We will study the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, and the importance of sea power and national security. The cadets will gain in-depth knowledge of Naval ships and aircraft as well as an introduction to marine navigation and seamanship. The cadets will also continue with instruction in leadership, citizenship, and discipline. The course content includes instruction in Sea Power and National Security,

Naval Operations and Support Functions, Military Law, and International Law and Sea. The cadets will be introduced to Ship Construction and Damage Control, Shipboard Organization and Watch Standing, Basic Seamanship, Marine Navigation, and Naval Weapons and Aircraft. ***Prerequisite: Naval Science II, Meets all promotion requirements and completion of Basic Leadership Training***

Naval Science IV | Grades 11 | Full Year

NS IV First semester focuses on Classroom activities from the NS4 text book, include seminars, reading assignments, classroom presentations, and practical work with younger cadets. Second semester, Juniors (NS4) are guided in their preparation for life after high school, such as college preparation, scholarship applications, and the variety of choices that are available to them. The cadets will also be provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long range life goals.

Prerequisite: Naval Science III, Meets all promotion requirements and completion of Basic Leadership Training

Naval Science V | Grades 12 | Full Year

Focused primarily on practical leadership techniques and implementation. The intent is to assist seniors in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Seniors will continue to be mentored/guided in their preparation for life after high school to include college preparation, scholarship applications, and the variety of choices that are available to them. Course content includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. ***Prerequisite: Senior and completion of Basic Leadership Training***

PHYSICAL EDUCATION & HEALTH PROGRAM

Health 7 | Grade 7 | 1 Semester

Students will gain an understanding of physical and mental health and wellness. Emphasis will be placed on the behaviors and attitudes necessary to make healthy lifestyle choices including nutrition, physical and mental fitness, disease prevention, as well as the effects of drugs, tobacco, and alcohol on the body. There is also a focus on current mental health issues, building and maintaining healthy relationships, identifying violent behaviors and conflict, as well as conflict resolution techniques.

Middle School Physical Education | Grades 6-8 | Full Year, Every other Day

The program provides a flexible curriculum that creates an atmosphere conducive to the growth of motor skills and body management, acceptable social behavior, good sportsmanship, physical fitness, common courtesy, and cooperation. Students will be graded on attendance, participation, performance, and knowledge of each unit covered.

Health 10 | Grade 10 | 1 Semester

Health Education is a graduation requirement in New York State. Students will focus on behaviors, knowledge, and attitudes that promote a higher quality of life and healthy lifestyles. Students will explore self-esteem issues, teen sexuality, suicide prevention, violence, and other issues relevant to teenagers' well-being. Students will gain a greater understanding of the implications of their actions and choices in relation to their family, community, and environment.

High School Physical Education | Grades: 9-12 | Full Year, Every other Day

This course provides a curriculum that encompasses a variety of competitive and noncompetitive activities the students will participate in. Students will refine their motor skills, body management, social awareness, sportsmanship, cooperation, and physical fitness levels. This course will provide students the opportunity to participate in social and emotional learning and physical activities such as, badminton, volleyball, tennis, net and wall sport, striking and fielding sport, and target sports.

Strength Training 1 (PE111) | Grades 11-12 | 1 Semester, Every other Day

This course provides proper free-weight training techniques for implementing a personal weight program. It develops individualized and strength training routines that can become lifetime commitments.

Speed Training (PE112) | Grades 11-12 | 1 Semester, Every other Day

This course provides proper speed training techniques for improving fitness and athletic ability. Emphasis is placed on dynamic stretching, core strength, and sport specific speed/direction change.

Personal Fitness (PE151) | Grades 11-12 | 1 Semester, Every other Day

This course introduces general fitness concepts with focus on the five health-related components of fitness: aerobic capacity, body composition, flexibility, muscular endurance, and muscular strength. Participation in laboratory activities develops these components.

Total Body Fitness (PE156) | Grades 11-12 | 1 Semester, Every other Day

This course introduces the students to the basic fundamental Total Body Fitness exercises, which are Yoga and Pilates-inspired positions. Many of the poses and exercises strengthen one or more muscle groups, while simultaneously stretching others. Many of the exercises also will challenge balance. The focus will be on the essential foundations of the primary poses to encourage the student to practice safely with ease and stability. There also will be a focus on managing stress through mindfulness and breath.

SCIENCE PROGRAM

In order to receive NYS Regents credit in any of the Regents science courses or to sit for the NYS Regents exam, 1200 minutes of laboratory work is required.

Science 6 | Grade 6 | Full Year

This course explores Earth, life, and physical sciences through inquiry-based investigations. Students develop scientific reasoning, analyze data, and construct explanations aligned with NYS standards, focusing on topics like ecosystems, Earth systems, and forces/interactions.

Science 7: The Living Environment | Grade 7 | Full Year

This course is an introduction to Regents Biology. Students will explore life science by participating in a variety of activities and discussion. Students will use and apply scientific concepts, principles, and theories to the natural world. They will acquire lab skills through the use of hands-on activities. Lab skills will focus on the use of graphing, measurement with rulers, calculators, and the microscope. The units of study include: scientific method, structure and function of cells, heredity, evolution, diversity of life, animals (vertebrates/ invertebrates), nutrition, ecology, and the human body. Required Materials: Scientific or 4-function Calculator

Science 8: The Physical Setting | Grade 8 | Full Year

The Physical Setting is an introductory course for chemistry and physics. Students will explore the physical sciences by participating in a variety of activities and discussion. Students will discover the physical world by formulating hypotheses and drawing conclusions. They will acquire lab skills through the use of hands-on activities. These activities will focus on the use of measurements with metric rulers, calculators, triple beam balances, beakers and test tubes, pipettes, Bunsen burners, acid/base indicators, stop watches, lenses, and motion simulation. The units of study include: atoms, elements, compounds, periodic trends, matter, forces, waves, and motion. Required Materials: Scientific or 4-function Calculator, Metric Ruler.

Life Science: Biology | Grades 9-10 | Full Year

This is a full year course culminating with the NYS Regents exam in June. This course covers a wide range of topics including, scientific inquiry and lab skills, similarities and differences among living organisms, homeostasis in organisms, genetic continuity, reproduction and development, the theory of evolution, ecology and environmental science and human impact on ecosystems. This class also requires a minimum of 1200 minutes of hands-on laboratory activity, including four state mandated lab activities. Successful completion of this course is required for graduation. Requested materials: Scientific/4-function calculator, metric ruler, Review Book (purchased from school) **Prerequisite: Successful completion of Science 8 and Math 8.**

Earth and Space Science | Grades 9-10 | Full Year

Topics of study include 2D and 3D mapping, rocks and minerals, earthquakes, volcanoes, tsunamis, weathering, erosion, deposition, landscape evolution, glacial geology, geologic history, energy processes, astronomy, motion of the planets and moon, water resources, meteorology, climate, and human impact on Earth. Hands on laboratory experiences lead to building critical thinking and analysis of data. Students will connect the content with their everyday lives through laboratory write ups and photo journaling throughout the year. Successful completion of lab requirements must be accomplished before the Regents examination can be taken. The Regents exam is the final exam for this course. This Regents exam is taken in two parts – a laboratory practical and a written test. Requested materials: Scientific/4-function calculator, metric ruler, Review Book (purchased from school)

Prerequisite: Successful completion of Science 8 and Math 8.

Chemistry | Grade 10-12 | Full Year

The Regents Chemistry course is an introductory chemistry course which builds the foundation for college chemistry. It is a rigorous course, requiring strong math skills, logical reasoning skills, and a commitment to hard work. The course covers the fundamental concepts of chemistry: atomic structure, chemical bonding, physical behaviors of matter, kinetics and equilibrium, organic chemistry, oxidation and reduction reactions, acid, base, and salt chemistry, and nuclear chemistry. Successful completion of lab requirements must be accomplished before the Regents examination can be taken. Requested materials: Scientific/4-function calculator, Review Book (purchased from school)

Prerequisite: Successful completion of Regents Biology, Earth and Space Science, and Algebra 1.

Conceptual Chemistry | Grades 10-11 | Full Year

This non-Regents course covers the fundamental/general concepts of chemistry: atomic structure, chemical bonding, physical behaviors of matter, kinetics and equilibrium, organic chemistry, oxidation and reduction reactions, acid, base, and salt chemistry, and nuclear chemistry.

Physics (PH 151 & 152: General Physics) | Grades 11-12 | Full Year

Regents Physics follows the New York State Core Physical Setting/Physics Curriculum. Topics of study include Mechanics, Forces, Energy, Electricity, Magnetism, Wave Phenomena, and Modern Physics. Students will learn how to approach problems from both a conceptual and mathematical background. Students will also collect, organize and analyze data through hands-on laboratory experiments. This course is an algebra-based physics course, primarily for students who intend to pursue a four-year college degree. Successful completion of lab requirements must be accomplished before the Regents examination can be taken. The Regents exam is the final exam for this course. Requested materials: Scientific calculator, lab & homework folders, protractor, Review Book (purchased from the school)

Prerequisite: Successful completion of Algebra 2 and/or concurrent enrollment in Pre-calculus.

*****Seniors will be REQUIRED to return to school for daily class and review after their graduation.*****

Conceptual Physics | Grades 11 – 12 | Full Year

The non-Regents Conceptual Physics focuses on the general concepts using basic skills of algebra and geometry. While working and learning about everyday physical phenomena, you will also have the opportunity to develop your skills in problem solving, data collecting, analyzing, making hypothesis, evaluating, synthesizing information and theories through group work. Conceptual Physics will focus on several major areas of physics content: Inquiry in Physics, Classical Mechanics, Electricity and Magnetism. Students will NOT sit for a NYS Physics Regents Examination at the end of this course. Students will be required to sit for a final at the end of the class.

Environmental Science (BI105) | Grades 11-12 | 1 Semester

This course increases appreciation and interest in human interaction with other organisms and with the physical environment. Topics include basic ecological concepts as well as human impact on the earth with an emphasis on selected environmental problems (i.e. natural resource use, pollution, wildlife conservation, agriculture, hazardous waste etc.). The laboratory component supplements lecture topics by providing practical experiences. Field experiences are required.

Physical Geology (GL101) | Grades 11-12 | 1 Semester

This course explores the composition and formation of minerals and rocks that make up the Earth. Additionally, the primary surface and subsurface properties that continually shape the Earth are discussed. In the laboratory, the common rock-forming minerals as well as igneous, sedimentary, and metamorphic rocks are examined. Additionally, the concepts of surface and groundwater flow are discussed as well as topographic map interpretation and construction. Field trips may be taken during laboratory periods.

Introduction to Nanoscience & Nanotechnology | Grade 12 | 1 Semester

This course will expose students to the historical, chemical, physical, biological, medical, and ethical concerns and challenges associated with this new and developing field of “World of the Small”. Students will experience a complete hands-on introduction experience to the science of Nanotechnology. Topics include “Thin Film Interference,” “Hydrophobic and Hydrophilic Surfaces,” “Nucleation, Atomic Force, Microscopes,” “Light, Color, UV, Light, LASERS & Optics,” “Holography,” “Fiber optics and Solar cells.” Practical applications in Nanotechnology including tools and principles relevant at the Nanoscale level and future applications in engineering, materials, physics, chemistry, biology, electronics, and energy.
Prerequisites: Regents Biology, Regents Chemistry, Algebra 1, Geometry, Algebra 2. Required materials: Scientific calculator

SOCIAL STUDIES PROGRAM

Social Studies 6 | Grade: 6 | Full Year

This course explores world cultures and geography, focusing on the Eastern Hemisphere. Students develop critical thinking skills, analyze historical and contemporary issues, and understand diverse perspectives, aligning with NYS standards for social studies.

Social Studies 7 | Grade: 7 | Full Year

This course of study examines United States history in a chronologically arranged fashion. Major topics ranging from the pre-Columbian era, American colonization, American Revolution, early 1800s, and Civil War are covered. It studies/discovers political, geographic, economic, and social trends in United States history. It provides a solid content base in American history, helping students develop an understanding of the rights and duties for participatory citizenship. It will provide a model for the global connections they will discover in grades 9 and 10 social studies program. The course of study involves the use of maps, charts, graphs as well as written expression. Students will develop reasoning skills necessary to extend inquiry, expand knowledge, and understand how the past is studied and interpreted. This course follows the implementation of New York States' changes to scope and sequence for topics and assessment.

Social Studies 8 | Grade: 8 | Full Year

This course of study concludes the United States history that was begun in seventh grade. Topics covered include the post-Civil War Era, industrialization and urbanization, American imperialism, both World Wars, The Great Depression, the Cold War and ends with current day topics. As with seventh grade course work, maps, charts, graphs as well as written expression are used. It provides a solid content base in American history, helping students develop an understanding of the rights and duties for participatory citizenship. The course will examine the relationships of Americans of very diverse backgrounds and examine how they adapted to the culture of different regions of the United States. Added emphasis is placed on historical document interpretation and analysis, with focus on written response. Students will develop reasoning skills necessary to extend inquiry, expand knowledge, and understand how the past is studied and interpreted. This course follows the implementation of New York State's changes to scope and sequence for topics and assessment.

Global History & Geography I | Grade: 9 | Full Year

The program for grades nine and ten is a two-year world history course organized chronologically. Grade nine will include units beginning with the Stone Age and ending with the Scientific Revolution and Enlightenment. Global History and Geography one covers the history of Europe, Asia, Africa and Latin America from the earliest hunter gatherer societies until the end of the seventeenth century. The modern world will be covered in the second year of this course. In this course, students will become familiar with the development and characteristics of civilization. They will master map skills, relationships relevant to time periods, and cause-effect relationships inherent in the flow of history. The curriculum includes geographic and historical settings, cultural and economic development and global relationships. The course of study involves analysis of primary source documents leading to written expression. ***Prerequisite: Successful Completion of English and Social Studies 8.***

Global History & Geography II | Grade: 10 | Full Year

The program for grades nine and ten is a two-year world history course organized chronologically. This is the second part of the Global Studies curriculum. It picks up where Global History and Geography 1 concludes, which is at the end of the seventeenth century. The course is chronological in nature. Grade ten will examine the history of Europe, Asia, Africa, and Latin America from 1700 to the present. Students will understand and be aware of how the nations of the world are interdependent in

relationship to current issues and events, and will understand the effects of religion, economics, nationalism, imperialism, militarism, and balance of power on much of the history of the western world. Other aspects of the curriculum include geographic and historical settings, cultural and economic development, global relationships, and contemporary nations. Focus will be placed on the interpretation of historical documents and readings. The Global History & Geography Regents will be given to all students at the end of the course in June. Purchase of a review book will be required.

Prerequisite: Successful Completion of English 9 and Global History & Geography I

AP World History: Modern | Grades: 10-12 | Full Year

This college level course is offered to qualified students who seek the challenge of learning about modern world cultures in addition to and beyond the NYS Global Studies Regents curriculum. It will study, in depth, the nature of continuity and change in cross-cultural settings and focus on the comparisons of major societies throughout world history, beginning as early as the Neolithic Revolution all the way to current times. Global perspectives with emphasis on the global processes and patterns will be discussed and evaluated through the critical analysis of historical primary source materials and student research. The course encourages historical thinking skills and the analysis of primary texts; students will be taught the contextual and analytical processes needed to use unabridged sources and documents effectively, in line with current AP standards. The acquisition of historical fact and proficiency in writing high quality essays will be the objective of this course. APWH is a challenging college-level course that will prepare exceptional sophomores for the APWH exam in May (which all students are required to take and for which a fee is charged) and the Global Regents in June. Motivated seniors may choose this course as an elective. ***Prerequisite: an average of 90% or better each marking period, for each exam, and as a final grade in Global I and an overall cumulative GPA of 85%.***

Historical Writing and Analysis | Grade: 10-12 | 1 Semester

This half year course is required for all students who are enrolled in AP World History: Modern. This course is designed to provide students with the writing skills that they will need to be successful on the AP World History: Modern Exam. This course is NOT designed to be additional working time for the AP course, but a separate course with its own curriculum, instruction, and assessment. Over the semester, students will learn how to approach and respond to the various free-response questions (FRQ's) of the AP Exam: the short-answer questions (SAQ's), the long essay questions (LEQ's) and the document-based questions (DBQ's). This course will culminate with a final writing project in January. ***Co-requisite with AP World History: Modern***

United States History & Government | Grade 11 | Full Year

This course chronologically examines United States history. United States history is the history of a great experiment in a representative democracy. The course will examine basic principles and core values expressed in the Declaration of Independence and then bring to light how they became the guiding ideas for our nation's civic culture. Major emphasis is placed on Constitutional issues that were resolved or continue to affect our world today. Emphasis will be on the United States' transition from an agricultural nation to a major industrial nation and world power. Key domestic and foreign events and policies are examined and analyzed through primary source documents. Students will be required to analyze readings, articles, quotes and images from the 17th century to the 21st century and explain how the quotes do or do not reflect the opinion of the majority of America from that specific time period.

The United States History & Government Regents will be given to all students. Purchase of a review book is required. ***Prerequisite: Successful Completion of English 10 and Global Studies II.***

AP United States History | Grade: 11 | Full Year

This study of U.S. History and Government is designed as a college level course and as such, is highly challenging and requires extensive reading, writing, and discussion. The emphasis is on the presentation of factual knowledge and critical analysis. The latter should be a degree expected of a college sophomore. Mature reading comprehension and writing are essential for success in this course. The course will chronologically examine major themes in American history and will analyze conflicting positions through historical readings and student research. The acquisition of historical facts and proficiency in writing high quality college level essays will be objectives for the course. Students will develop an understanding of key themes and turning points in United States history and an understanding of the framing of the Constitution and its response to challenges in American society. This course is designed to prepare the student for both the AP American History exam in May (which all students are required to take and for which a fee is charged) as well as the New York State Regents Exam in U.S. History and Government in June. Purchase of a review book is required. ***Prerequisite: an average of 90% or better each marking period, for each exam, and as a final grade in in Global History and Geography, overall cumulative GPA of 85%, and a teacher recommendation. Placement by transfer students may involve a placement test.***

Economics & Economic Decision Making | Grade: 12 | 1 Semester

This semester course in economics is intended to meet the mandate of the New York State Board of Regents. It is designed to provide students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens in our society and in the world. The emphasis on rational decision-making in economic areas will encourage students to become wiser consumers as well as better citizens. It is designed to give the student a better understanding of the role and importance of economics and economic systems in our national and international society. Upon completion of this course, students will be able to discuss methods of measuring the economy and the factors that affect it. Students will also be able to describe the role of the United States in the world economy. ***Required of all seniors for graduation.***

Participation in Government | Grade: 12 | 1 Semester

This semester course in government is intended to meet the mandate of the New York State Board of Regents. This course is designed to give the students a greater understanding of the foundations of the American political system, the Constitution, and the day-to-day operation of the government bureaucracy. The course will emphasize the interaction between citizens and government at all levels – local, state, and federal. The development of student participation in the process of government is encouraged. Its purpose is to prepare students to become informed citizens who are ready to take an active role in the operation of government on all levels and who also understand the way America's government compares or contrasts to the governments of other nations. ***Required of all seniors for graduation.***

Introduction to Sociology | Grades: 11-12 | 1 Semester

This course gives an understanding of and a feeling for the society in which we live. The concepts and theories discussed relate to humanity, its culture and society, and to those forces that contribute to the smooth operation of this society as well as those forces that contribute to conflict and social problems. Topics include culture, socialization, stratification, population, and patterns of social organization.

AP Psychology | Grade: 12 | Full Year

The AP Psychology course is designed as an introductory college course and will be highly demanding. The course will introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students will employ psychological research methods, including ethical considerations, as the use the scientific method, evaluate claims and evidence, and effectively communicate ideas. This course is designed to prepare the students for the AP Psychology exam in May. All students are required to take the AP Psychology exam. Families are responsible to pay a fee for the exam. ***Prerequisite: Average of 90 or above in all high school English and Social Studies courses as well as a teacher recommendation. Students should also be willing to accept the demands of a rigorous curriculum that includes outside readings, essay writing, and research projects.***

SPANISH PROGRAM

With the exception of those students classified as language exempt on an IEP, students will be expected to complete Spanish through Level 3.

Intro to Spanish | Grade 6 | Full Year, every other day

This course focuses on foundational Spanish language skills: basic vocabulary, pronunciation, and simple conversation. Students explore Hispanic cultures and begin to build a base for future language learning.

Spanish 1a | Grade 7 | Full Year

This course is designed to provide the 7th grade student with the first portion of Level 1 Spanish. The course is aligned with Checkpoint A of the Regents Languages Other Than English curriculum from New York State. The course is designed to introduce students to elementary aspects of the Spanish language, including basic vocabulary, grammar, and culture. Students will be expected to read, write, and speak in Spanish and to understand spoken Spanish appropriate for their level.

Spanish 1b | Grade 8 | Full Year

This course is the second portion of Level 1 Spanish. The course is aligned with Checkpoint A of the Regents Languages Other Than English curriculum from New York State. Emphasis is given to establishing a strong foundation in comprehension and basic communication on simple, everyday topics. Students will continue to study the elementary aspects of the Spanish language and will start to enhance cross-cultural skills. At

the completion of this course, students will take the Checkpoint A examination. All 8th grade students must pass both the course and the Checkpoint A examination to receive a high school credit for this course.

Spanish 2 | Grades 9-12 | Full Year

This is the second year of the New York State three-year sequence in Languages Other Than English. This course continues to develop the speaking, listening, reading, and writing skills acquired in Spanish 1. The primary goal of this course is that students should be able to speak about themselves and their surroundings. Students should also be able to ask for general information and understand a native speaker who is speaking slowly. Emphasis will be placed on the ability to function in everyday situations. Students will continue to learn about the culture of Spain and other Hispanic countries.

Prerequisite: Successful completion of Spanish 1

Spanish 3 | Grades 10-12 | Full Year

This is the third and final year of the New York State three-year sequence in Languages Other Than English. Students should be able demonstrate mastery of expanded vocabulary and grammar topics. They are expected to express themselves orally with an intermediate degree of fluency. This course will focus on oral expression, listening comprehension, reading comprehension, and written expression. Students will continue to learn grammatical structures to support their language development. At the completion of this course, students will take the Checkpoint B examination. Students must pass BOTH the course and the examination in order to complete the Languages Other Than English requirement for the New York State Advanced Regents Diploma. ***Prerequisite: Successful completion of Spanish 2***

Spanish 4: SP191/192 Review Spanish | Grades 11-12 | 1 Year

This sequence continues the development of grammar, cultural understanding, reading, writing, and conversation skills, and is presented at an accelerated pace. Prerequisite: Three years of Spanish instruction more than two years ago with a grade of B or better.

Spanish 5: SP 201/202 Intermediate Spanish | Grades 11-12 | 1 Year

This sequence reviews selected grammatical features, with emphasis on oral and written competency at the intermediate level supported by a study of cultural and literary materials. Prerequisite: Successful completion of the elementary or review sequence, or three years of Spanish instruction fewer than two years ago with a grade of B or better

THEOLOGY PROGRAM

Students must successfully complete the Theology course, a House service project, individual service hours, and the class retreat required for each year for graduation.

Theology 6 | Grade 6 | Full Year

Students will gain instruction in Doctrine, Scripture, Morality, Prayer, and Liturgy and will relate what is learned in the classroom to real life decisions. Students will learn the basic tenets of the Catholic faith.

Theology 7 | Grade 7 | Full Year

Students will gain instruction in Doctrine, Scripture, Morality, Prayer, and Liturgy and will relate what is learned in the classroom to real life decisions. Students will learn the basic tenets of the Catholic faith.

Theology 8 | Grade 8 | Full Year

The 8th grade course continues the aim of learning and practicing the basics of the Catholic faith, plus, the knowledge and heritage of their faith, values, and the Bible. Students will continue to learn the basics of the Catholic faith and demonstrate all virtues in daily life, perform community service hours, and discuss real-life problems and situations and reflect upon how the Catholic faith helps lead to good, moral decisions.

Theology 9: Encountering Christ in Scripture | Grade 9 | Full Year

Semester 1: Revelation of Christ in Scripture: The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

Semester 2: Encountering Christ: The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be.

Theology 10: The Paschal Mystery & the Church | Grade 10 | Full Year

Semester 1: The Paschal Mystery: The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

Semester 2: The Mission of the Church: The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

Theology 11: Sacraments and Morality | Grade 11 | Full Year

Semester 1: The Sacraments: The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

Semester 2: Catholic Morality: The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

Theology 12: Call & Culture | Grade 12 | Full Year

Semester 1: Catholic Social Teaching: The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

Semester 2: Vocations: The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

Philosophy | Grades 11-12 | 1 Semester

This course will introduce students to the central topics of philosophy. We will also learn the tools of logic, the development of arguments, critical thinking, and effective reading and writing. Special emphasis will be placed on those philosophical topics as they relate to the Catholic faith, such as the existence of God, the nature of the soul, the relationship between faith and reason, and the relationship between science and reason.