

# Martin Luther School

Small School.  Smart Choice.

## Course Catalog and Scheduling Guidelines

## Counseling Center Goal:

As an important part of the Martin Luther School family, the future graduates will be people of integrity who take charge of their learning and choices beyond high school; live honestly; respect themselves and others; and do their part to create and cultivate a safe environment for all.

## Introduction

This document contains information for students and parents/guardians to consider when planning courses to take for each school year. The School Counselor is available to help students with their course schedule and graduation plans. All questions regarding course selections or programming concerns should be addressed to the Counseling Center.

After all student course requests have been submitted, the School Counselor will construct a master schedule based on the course requests. Class changes will not be made after the first full week of a course. If a class is not offered due to low enrollment, students will be asked to select an alternative option.

The first section gives an overview of graduation plans as well as other academic options to consider when selecting courses. Students are also required to take some standardized tests, which is detailed in the second section. Students have the option to take courses for dual college and high school credit and that information is detailed in the third section. The final section contains the course offerings available to students. Please note: Some classes may be offered on a rotating basis or only with availability of an instructor.

Each year it is important to evaluate the number of academic credits accumulated toward the 24.5 credits needed for an Academic Diploma.

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# High School Graduation Requirements

## A. Martin Luther School Academic Diploma

In order to receive a Martin Luther School Academic Diploma a student must successfully complete the following:

### 1. **Course Graduation Requirement (24.5):**

Students must pass all classes with an average of 70% or above in Core Courses: English (4) | Mathematics (3) | Science (3) | Social Studies (4) | World Language (2); and Elective Courses: Physical Education (2)\* | Theology (2)\* | Health (0.5) | Fine Arts (1)\*\* | Foundations/Life Skills (1) | Electives (2)

*\* One-half unit of Theology credit and one-half unit of Physical Education is required for each year a student is in attendance at Martin Luther High School.*

*\*\* This requirement can be fulfilled with Art, Music, or Dance courses.*

### 2. **Testing Requirement:**

Students who meet the requirements for the Martin Luther Academic Diploma are eligible for a NYS Regents Diploma. Students must\* receive a minimum score of 65 on five basic Regents examinations: Algebra I and Living Environment (Biology) during freshman year; Global History during sophomore year; and English and US History Regents Examinations during junior year. To be considered for an Advanced Regents Diploma, please see the requirements below.

*\*For any student admitted in 2018 and will graduate in 2022, the requirement is to sit for these exams.*

Looking ahead: The City University of New York (CUNY) requires a minimum of a 75+ on the English Regents and an 80+ on at least one Math Regents Exam. A student that does not meet these requirements may be required to complete alternative requirements including the SAT, ACT, the CUNY Assessment Test (CAT) or non-credit bearing remediation classes.

### 3. **Service Hour Requirement:**

Complete 32 hours of community service with eight hours required each year.

## B. New York State Advanced Regents Diploma

In order to receive a New York State Advanced Regents Diploma, students must fulfill the requirements for an Martin Luther School Academic Diploma. In addition to this, Students must receive a minimum score of 65 on the additional Regents examinations: Geometry; Algebra 2; an additional lab science; and a World Language local exam.

### C. Martin Luther Advanced Academic Diploma

Students who meet the requirements for the New York State Advanced Regents Diploma are eligible for a Martin Luther School Advanced Academic Diploma. In order to receive this diploma a student must successfully complete the requirements for the basic diploma; the New York State Advanced Regents Diploma; and the following:

- Three years of a world language
- Four years of mathematics
- Complete a total of four (4) approved college courses
- Hold a GPA of 85% or higher

### D. New York Regents/Advanced Regents with Mastery Diploma

In order to receive a New York State Regents or New York State Advanced Regents with Mastery distinction, a student must achieve a calculated average of 85+ on required Regents exams.

### E. Martin Luther High School Advanced Academic Diploma with Honors\*

Students who meet the requirements for the Martin Luther Advanced Academic Diploma with Honors are eligible for a NYS Advanced Regents Diploma with Honors. Students must earn a calculated average of 90+ on required Regents exams. In order to receive a Martin Luther School Advanced Academic Diploma with Honors a student must successfully complete the requirements for the Martin Luther Advanced Academic Diploma, as well as the following requirement:

- Hold a GPA of 90% or higher.

*\*This reflects a change for any student admitted from 2018 on and who will graduate in 2022 or later.*

## Academic Progression

### A. Class Standing

Students must be “in good standing” each year in order to take part in class activities of their class. This includes holding class office, voting in class elections, going on class-sponsored day or weekend trips, ordering class rings, participating in class meetings and special class privileges (senior privileges and homecoming court).

**The minimum requirements are as follows:**

#### 1. **Freshmen**

Freshmen who fail courses totaling more than three credits **must repeat freshman year**. This may be done only once.

English (1)	World Language or SETSS (1)
Mathematics (1)	Theology (0.5)
Social Studies (1)	Physical Education (0.5)
Science (1)	

**2. Sophomore**

To be classified as a sophomore a student must have completed a total of eight hours of community service and six credits as follows:

English (1)	World Language or SETSS (1)
Mathematics (1)	Theology (0.5)
Social Studies (1)	Physical Education (0.5)
Science (1)	

**3. Junior**

To be classified as a junior a student must have completed a total of 16 hours of community service and 12 credits as follows:

English (2)	World Language (2)
Mathematics (2)	Theology (1)
Social Studies (2)	Physical Education (1)
Science (2)	

**4. Senior**

To be classified as a senior a student must have completed a total of 24 hours of community service and 18 credits as follows:

English (3)	World Language (3)
Mathematics (3)	Theology (1.5)
Social Studies (3)	Physical Education (1.5)
Science (3)	

**B. Honor Roll**

- Principal’s list            94% and above
- First Honors                90%-93.99%
- Second Honors            85%-89.99%

**C. Summer School**

Freshmen and Sophomores who do not pass a core course during the regular school year **must take summer school** to make up the credit. Other students who do not pass a core course during the regular school year are expected to attend summer school to make up the credit. For this reason, Martin Luther High School and other accredited summer schools are available to the student, including local public schools. All Martin Luther School summer school classes will be held online.

# Course Scheduling

The following section details how students will make course requests in the spring for the following academic year and how those are compiled into final schedules for the school and individual students. During the spring, the School Counselor will amass the needs of the students to create a schedule for the school and individual students.

## 1. Schedule Creation

In planning a schedule for the next year, each student must choose at least 6 courses, five of which must be core courses. Make sure to consider the following when constructing a course schedule:

- Most colleges require 3 lab science classes. The Regents Exam for all lab sciences also require the lab component. Students will be registered for lab science classes in order to satisfy these requirements.\*
- Some colleges require 4 years of Mathematics.\*

*\*Students are responsible for checking the admission requirements for the colleges and universities to which they plan to apply.*

## 2. Course Changes

Schedule changes for the following year will be made if required by final grades or summer school grades. Courses may be added if the time was previously unassigned. Course changes will not be made because a student has changed his/her mind. No changes will be made after the Friday of the first full week of the course.

## 3. Early Dismissal

A junior or senior who does not have an eighth period class will be allowed to leave the building early, provided the student is progressing satisfactorily in his/her classes. Early dismissal is a privilege, not a right. Students will lose privilege of early dismissal in the event they are failing one or more classes. All other students who do not have eighth period classes will be assigned to an Advisory Period.

## 4. Advisory Period

During 8th period, each student will be assigned to a teacher for a study hall. During this period, students will have the opportunity to go to any classroom after attendance is taken in order to receive extra help from any other teacher in the building. Please note: some Fine Arts electives may be scheduled during this time in order to make them available to students who cannot take them due to core requirements.

# College Preparation Information

## Standardized Tests

### **A. Preliminary SAT (PSAT)**

This test is given to all freshmen, sophomores, and juniors in October. This is a practice exam for the SAT. The PSAT helps students determine their strengths and weaknesses in academic subjects. For juniors, it determines the winners of the National Merit Scholarship. There is no cost for this test.

### **B. SAT**

Many colleges require SAT scores from their applicants. Students may register for the test online at [collegeboard.org](http://collegeboard.org) and are encouraged to take the test at least twice—beginning in the spring semester of their junior year. Martin Luther School is a testing center for the November and March SATs. It is necessary to register several months prior to the exam date to ensure a seat at the student's preferred testing location.

### **C. Advanced Placement Courses/Examinations**

Students enrolled in Advanced Placement courses will have the opportunity to take the AP Exam in May of the academic year in which they are enrolled in the course. Exams for courses not offered at Martin Luther School may be taken upon approval; students who are interested in taking extra exams should speak to the Counseling Center. If their AP exam scores meet the criteria of their college, students may be awarded college credit.

## College Credit Courses

Martin Luther School offers college level courses to juniors and seniors. College credit is awarded for all courses successfully completed in the program. To be eligible for these courses, a student must have a GPA above 85%; a PSAT or SAT score of 1000 or above; and have a teacher recommendation. The student must pass the courses with a 70% or higher in order to obtain college credit; if a student fails the class, the family will be expected to pay for the course.

### Information about credit:

- Credits will be applied toward the high school diploma.
- Official university transcripts will be issued to all students participating in the program. These transcripts may be used by students seeking transfer credit.
- It is the responsibility of the student to request the official transcripts from the



college or university upon graduation in order to submit the documents to the college or university where he or she attends as a college student.

- Tuition fees vary based on the college or university that is offering the course.

## Society Memberships

### **A. National Honor Society (NHS)**

Martin Luther School maintains an active chapter of the National Honor Society (NHS) of Secondary Schools. NHS is a distinguished organization that seeks to recognize students for their dedication to and excellence in scholarship, leadership, character, and community. If a student is selected to be a member of NHS, the student must enroll in five core subject classes per year. This can be a combination of English, Math, Science, Social Studies, and World Language classes. In addition, each student must complete an additional 10 hours of community service per academic year.

### **B. National Junior Honor Society (NJHS)**

Martin Luther School maintains an active chapter of the National Junior Honor Society of Secondary Schools. NJHS is a distinguished organization that seeks to recognize students for their dedication to and excellence in scholarship, leadership, character, and community. If a student is selected to be a member of NJHS, the student must enroll in five core subject classes per year. This can be a combination of English, Math, Science, Social Studies, and World Language classes. In addition, each student must complete an additional 15 hours of community service per academic year.

### **C. International Thespian Society**

Martin Luther School maintains an active troupe (#980) in The International Thespian Society. This honors-based organization seeks to encourage and recognize high school students in their participation in the theatre arts. Students earn points toward membership by participating in a variety of areas within the high school drama program. Members are encouraged to cultivate an atmosphere of excellence and to perform their best through cooperation with others. Opportunities for participation may include on-stage acting, backstage work, costumes and props, set design, lighting and sound, and musical performance. The troupe works to prepare and perform three productions per year: a play; a travelling performance; and a musical.

# Course Offerings

## Business

### **Foundations**

*1 semester: 0.5 credit; required for graduation*

This is a freshman level course which helps prepare students with the skill set to help them become successful throughout their time at Martin Luther and beyond. Topics include developing a healthy self esteem, organizational skills, managing time, note taking, studying and test taking skills along with knowing when to ask for help. This class also completes the New York State standard for keyboarding.

### **Life Skills**

*1 semester: 0.5 credit; required for graduation*

This course is a senior level course which helps students to develop the basic skill set to help them navigate the real world. Topics include, but are not limited to personal finances, budgeting, building credit, balancing a checkbook, obtaining a mortgage, paying bills, credit cards, taxes, insurances, keeping records. Professional and personal skills include writing a resume, interviews, goal setting, tracking appointments and stress management.

### **Introduction to Computing (Pace University CIS 101)**

*1 semester: 0.5 credit, 3 college credits; prerequisite: 85% or above GPA and 1000+ on PSAT/SAT*

The Computer Information Systems 101 course will provide students with guided, hands-on lab exercises with a variety of computer-based tools as well as traditional conceptual instruction. The hands-on portion of the course will give students direct experience with an application package (MS Excel), web development (HTML), and computer programming (Alice). The concept portion will consist of weekly readings from the text, threaded discussions, lecture notes, and other assignments. It will cover basic computer hardware and software topics, computer careers, and computers and society. Lecture and discussion will promote understanding of the fundamental principles of information technology so students will be prepared for the new systems and tools of the future.

### **Principles of Sports Management (695/St. John's University SPM 1001)**

*1 semester: 0.5 credit, 3 college credits; prerequisite: 85% or above GPA and 1000+ on PSAT/SAT*

This introduction to the professional area of sport management discusses basic philosophy and principles of sport at all levels. The term sport refers to all recreational and competitive sports, exercise and fitness activities, and dance. Management encompasses the activities

associated with administration, supervision, and leadership.

### **Current Issues in Sport (696/St. John's University SPM 1003)**

*1 semester: 0.5 credit, 3 college credits; prerequisite: 85% or above GPA and 1000+ on PSAT/SAT*

This introduction to the professional area of sport management discusses specific social, ethical, and psychological principles of sport at all levels. The term sport refers to all recreational competitive sports, exercise and fitness activities and dance. Management encompasses the activities associated with administration, supervision and leadership.

## English

### **English 9: Grammar, Literature, & Composition (112)**

*1 credit*

This course is designed to help students develop basic skills in grammar, composition, reading, vocabulary and literature. Students will review the basics of grammar while they develop more sophisticated writing skills. They will also examine a wide range of literary genres, including poetry, drama, short fiction, and the modern novel. Furthermore, students will learn about the research process, including library and research skills, in order to write a formal research paper.

### **English 10: Grammar, Genre, & Composition (132)**

*1 credit*

In this course, students continue to develop their skills in grammar, vocabulary, and writing. Students study the different genres of literature, including poetry, drama, short stories, and novels. A continued focus on the research process is made, and a research paper is written.

### **English 10 Honors: Grammar, Genre, & Composition (131)**

*1 credit. Prerequisite: 85% in English 9 and teacher approval.*

Along with the regular English 10 curriculum, students in this class will focus heavily on writing skills and be challenged with projects and enhancement activities.

### **English 11: American Literature (152)**

*1 credit*

This course introduces students to more advanced skills in grammar, vocabulary, and writing. Students will read, analyze, and discuss American literature in preparation for written assignments in which students will employ literary analysis and comparison that will culminate in a term paper. Students will complete a college essay and take the English

Regents Exam during the course.

### **English 11 Honors: American Literature (151)**

*1 credit. Prerequisite: 85% in English 10 or English 10 Honors and teacher approval.*

Along with the regular English 11 curriculum, the class will be challenged with a variety of projects and other enhancement activities. Students will complete a college essay and take the English Regents Exam during the course.

### **English 12: British Literature (171)**

*1 credit*

This course continues to hone student skills in grammar, vocabulary, and writing. In addition, students will read, analyze, and discuss British literature and write a number of compositions including a literary criticism paper and re-evaluate the college essay written in English 11.

### **English 12: Honors (180)**

*1 credit. Prerequisite: 85% in English 11 or English 11 Honors and teacher approval.*

This honors course combines the study of British literature with composition. In addition to studying major British works and at least two major novels, students will write frequently, allowing them to review selected aspects of mechanics, grammar, and writing styles. Students will re-evaluate the college essay written in English 11. Students have the option to take the AP Exam for English Literature and Composition, but must make this request to the Guidance Department by the end of the First Quarter.

### **Film Studies (165)**

*1 semester: 0.5 credit*

The purpose of this course is to provide an introduction to film studies and film analysis. Students will look at film with fresh eyes and examine how the elements of film such as editing, sound, and lighting contribute to a film's purpose and its meaning. Students will explore how cinema has become a complex industry with an emphasis on how the Hollywood film industry dominated the style and production of cinema in the 20th century.

### **Dramatic Literature (168)**

*1 semester: 0.5 credit*

Dramatic Literature explores plays and the theater arts. Students are exposed to plays of different genres, eras and different themes. This encourages students in the study that drama is not only to be read but to be performed. Students will be expected to read, write, discuss, perform and analyze the works of famous as well as emerging playwrights, using the rich theater heritage of New York City as a backdrop.

**ESL I (593)**

*1 credit. Prerequisite: department approval. Can fulfill English requirements.*

This course provides an introduction to English. Students will learn to initiate and sustain basic conversation comprised of simple short sentences and will use common verb tenses, vocabulary, and memorized set phrases. They will learn to read and understand a variety of simple sentences and passages of text, both fiction and non-fiction, relying on picture and context clues to understand the meaning. Upon completion of the course, students will be able to write a few short sentences on a range of everyday topics.

**ESL II (594)**

*1 credit. Prerequisite: 70% in ESL I and department approval. Can fulfill English requirements.*

This course will build on the ESL 1 course topics. Students will learn to understand the majority of simple spoken conversations (descriptions, instructions and gestures) and be able to express their likes and dislikes. Students will also be able to, with support, read a variety of simple fictional passages of varying styles.

**ESL III (597)**

*1 credit. Prerequisite: 70% in ESL II and department approval. Can fulfill English requirements.*

This course builds on the ESL skills and strategies taught in ESL II to prepare students to meet challenges in their colleges and careers. Students are encouraged to build on prior knowledge of reading, writing, and listening skills in the English language. In this course, the focus will be on aspects of community within a given text—building, culture, improvements, and relationships. Short, non-fiction texts will also be read to encourage students to make comparisons between themes across different topic areas; this learning will be assessed through discussions and written assignments. In addition, students will continue to work on English grammar by reading, writing, and speaking the language.

**ESL IV (598)**

*1 credit. Prerequisite: 70% in ESL III and department approval. Can fulfill English requirements.*

This course builds on the ESL skills and strategies taught in ESL III to ensure students are prepared for their college and careers. Students are encouraged to build on prior knowledge of reading, writing, and listening skills in the English language. In this course, the focus will be on a close reading of specific texts in which character interactions, main points, and themes will be discussed and about which written assignments will be given. Students will continue to work on English grammar by reading, writing, and speaking the language.

## Fine Arts

### **Visual Arts**

#### **Art I (736)**

*1 semester: 0.5 credit*

This course is designed as an introduction to creating art and developing basic art skills. The course includes training in drawing techniques, color theory, and painting taught through the seven elements of design: line, shape, form, space, value, color, and texture. Art history is incorporated into the introduction of each lesson.

*After the completion of Art I, students may take any of the following art electives— provided they received an 85% or higher average in Art I. Students with averages below 85% must obtain teacher approval for course enrollment.*

#### **Art II (746)**

*1 semester: 0.5 credit*

This course is designed for students interested in improving basic art skills and developing art as a hobby. Areas of study include drawing, acrylic painting, textiles, copper tooling, and other craft projects.

#### **Major Art (724)**

*1 semester: 0.5 credit*

This course is for students interested in exploring the traditional Fine Art areas of printmaking, painting, sculpturing, and drawing. Students will learn about techniques, materials, and procedures used in each area.

#### **Studio Art (725)\***

*1 semester: 0.5 credit*

This course is designed for students who are interested in advanced drawing. Areas of study include drawing techniques in a variety of medium and subject matter, still life with oil pastels, organics with charcoal, landscape with pastels, perspective, figure drawing with india ink, and portraiture. One primary purpose of Studio Art is to aid students interested in the preparation of a portfolio for college admission.

*\* Student portfolios are required for acceptance into most college art programs. Deadlines for portfolio reviews range from December through February. Therefore, it is highly recommended for students considering a career in art to take Studio Art in their junior year to improve art skills and begin building a portfolio. Then, students can take*

*Major Art or other art electives their senior year. If a student's schedule makes it impossible to follow the above recommendation, an alternative is to take BOTH Major Art and Studio Art during senior year.*

### **Illustrator (761)**

*1 semester: 0.5 credit*

This is a course that provides students the opportunity to learn the leading graphic design software, Adobe Illustrator. Topics covered will include exploration of menus, palettes, and tools of the program and will be used to create a wide range of computer artwork such as illustrations, logo designs, and cartoons.

### **Photography (717)**

*1 semester: 0.5 credit*

This course is designed to explore digital photography as art. Students will be expected to complete specific photo assignments outside of the classroom with images being processed during class time using Photoshop as the digital darkroom. Topics include history of photography, composition, cameras, photo storage, and Photoshop basics--layers, color/value adjustments, filters, etc.--as well as special techniques of coloring prints and photomontage. A digital camera, including a phone camera, is required.

### **Yearbook Production (763)**

*1 semester: 0.5 credit*

This is a one semester class in which students will learn the basics of publishing and complete pages of the school yearbook, *Invictus*. Topics covered include book elements, type styles, layout design, and photo editing.

## **Performing Arts**

### **Chorus (711)**

*Full year: 0.5 credit*

Students will learn the basics of sound production, vocal skills, and music reading. This ensemble performs for all concerts and weekly chapels, covering a wide range of music from Baroque to Broadway. No audition is necessary.

### **Introductory Band (715)**

*Full year: 0.5 credit. Rental fee applies.*

This course is for students who want to learn to play an instrument for the first time or who want to continue to play but are not ready for Jazz Band or Advanced Jazz Band. Students will learn the basics and refine their skills in preparation for performance with the top ensembles. The group performs in school concerts and at graduation.

### **Advanced Jazz Band ()**

*Full year: 0.5 credit. Rental fee applies. Prerequisite: Introductory Band/Audition required*

This band consists of returning ensemble students, select students who have completed Introductory Band, or new students who auditioned and have previously studied music. The band will learn and perform both classic and modern Jazz repertoires from swing to Afro-Cuban, bebop to modern-day composers. The group performs in school concerts and at graduation.

### **World Music**

*1 semester: 0.5 credit*

This course is offered to juniors or seniors. The course will introduce students to a variety of musical styles outside the Western art music tradition and the cultural, social, and political contexts that influenced the styles. Students will acquire basic knowledge about specific music traditions from places in Latin America, Africa, the Middle East, and Asia. They will learn to write critically about music as an aspect of culture and society--illustrating the important role of music as a means of expression that is grounded in religious, political, social, and cultural identity.

### **Dance**

*All year: 1 credit; Prerequisite: Audition required that consists of warm-up, technique, and choreography. Students must come prepared with a 45 second solo. Must bring music.*

This course will introduce students to different dance genres (ballet, jazz, lyrical, and tap). In each class students are required to participate in warm ups, choreography, and review. There will be major performances in which all students are required to participate. Dance class requires the students to be properly dressed, have appropriate footwear (jazz shoes or dance paws and tap shoes). Participation is essential to the fulfillment of this course, and will be assessed through performance.



## Health and Physical Education

### **Health (925)**

*1 semester: 0.5 credit; required for graduation*

This course presents a holistic view of health and focuses on the wellness factors associated with various units. Topics include human development, mental and social health, nutrition and fitness, substance abuse, disease prevention, environmental issues, safety and first aid principles, and human sexuality.

### **Physical Education (911, 931)**

*Full year: 0.5 credit; required for graduation*

The Physical Education curriculum is arranged on Freshman/Sophomore (911) and Junior/Senior (931) levels. Activities are offered on a coed basis with emphasis placed on fitness, wellness, team, and individual sports and recreational activities. It is required of all students each year. Seniors will meet the new mandate of CPR skills.

## Mathematics

### **Pre-Algebra (310)**

*1 credit. Students are placed in this class at the teacher's recommendation.*

This course is intended to provide students with a good foundation in the basic skills necessary for Algebra I. Topics include a review of fractions, decimals, and percents. Other topics include number systems, operations with signed numbers, whole number exponents, order of operations, introduction to inequalities, solutions to simple linear equations, substituting into formulas, basic geometry, patterns, and sequences.

### **Algebra I (344)**

*1 credit*

After a brief review of arithmetic skills, the students begin a study of algebra that is intended to provide them with the necessary tools and ways of thinking for solving a broad variety of problems in many disciplines. Topics include linear equations and inequalities, quadratic functions, inequalities, coordinate geometry, data analysis, and statistics. At the end of this course, students may take the Algebra 1 (Common Core) Regents.

### **Algebra I Honors (345)**

*1 credit; prerequisite: level 4 State Math test score in 7th and 8th grade and above 75% on IOWA.*

This study of algebra emphasizes logical thinking and problem-solving skills. Students in this class studied basic algebra in a previous course. The goal for the course is that students will

learn to think mathematically, which will help them throughout their lives. This honors-paced course will cover topics including linear and quadratic equations, inequalities, exponential functions, coordinate geometry, right-triangle trigonometry, data analysis, and statistics. At the end of this course, students will take the Algebra 1 (Common Core) Regents.

### **Geometry (342)**

*1 credit*

While incorporating review of algebra topics, this course focuses on the study of geometry. This is intended to facilitate logical reasoning, spatial ability, and applications of previously learned material. Topics include parallel and perpendicular lines, triangles, quadrilaterals, circles, area, volume, transformation, locus, and geometric proof. At the end of this course, students may take the Geometry (Common Core) Regents.

### **Geometry Honors (343)**

*1 credit. Prerequisite: 85% in Algebra 1 and teacher approval.*

This course of study is for honors-level students who already have a firm grasp of algebra concepts from a previous course. Study emphasizes logical processing, spatial ability, and problem-solving skills. This honors-paced course will cover topics including lines, planes, locus, area, transformation, volume, and geometric proof. At the end of this course, students may take the Geometry (Common Core) Regents.

### **Algebra II (353)**

*1 credit*

This study of Algebra II is designed for students who have successfully completed Algebra I and Geometry. Topics include fractional equations, absolute value, quadratic equations, functions, linear systems, complex numbers, exponentials, and trigonometry. At the end of this course, students may take the Algebra 2 & Trigonometry Regents.

### **Algebra II & Trigonometry Honors (354)**

*1 credit. Prerequisite: 85% in Geometry or Geometry Honors and teacher approval.*

This course is intended for honors-level students. The course material includes the complex number system, relations and functions, rational and radical functions, transformation, probability and statistics, regression models, quadratics, exponential and logarithmic functions, and trigonometry. At the end of this course, students may take the Algebra 2 Regents.

### **Pre-Calculus (370)**

*1 credit*

This course is designed for students interested in preparing for college mathematics. Topics include the study of functions and their inverses, real and complex numbers, equations and inequalities, trigonometry, applications of trigonometry, exponential and logarithmic functions, and sequences and series. Additional topics may include matrices and discrete mathematics.

### **Pre-Calculus Honors (375)**

*1 credit. Prerequisite: 85% in Algebra 2 or Algebra 2 Honors and teacher approval.*

This is an honors-level course designed for students interested in preparing for a college-level calculus class. Topics include the study of functions and their inverses, real and complex numbers, equations and inequalities, trigonometry including applications of trigonometry, exponential and logarithmic functions, sequences and series, and an introduction to calculus--which includes limits, continuity, derivatives, and applications of derivatives. Additional topics may include polar coordinates and/or discrete mathematics.

### **Calculus I (386/ Pace University MAT 131)**

*1 credit. 3 college credits; prerequisite: Pre-Calculus Honors or permission of department chair.*

Analytic geometry, continuity, derivatives and differentials, applications to graphing and optimization problems, introduction to anti-differentiation and the definite integral.

## Science

### **Biology (430)**

*1 credit*

This is a laboratory course that consists of a comprehensive study of biological processes in both plant and animal kingdoms. Emphasis is placed on the physiological processes that occur in organisms. Students may take the Living Environment Regents at the end of the course.

### **Earth Science (410)**

*1 credit*

This laboratory course provides a comprehensive study of the geological processes in the earth. Topics include rocks and minerals, erosion, weather, water systems, landforms, and the universe. Students may take the Earth Science Regents at the end of the course.

### **Chemistry (450)**

*1 credit*

This is a laboratory course that places emphasis on chemical theory and the structure and periodicity of the elements. Topics include organic chemistry and chemical kinetics. Students may take the Chemistry Regents at the end of the course.

### **Physics-H (470)**

*1 credit; prerequisite: teacher recommendation.*

This laboratory course places emphasis on the study of matter and energy and of their interactions. Topics include problem solving with theory on forces, motion, structure of matter, heat, wave motion, sound, light, electricity, electronics, and nuclear physics. Permission of instructor is required. Students may take the Physics Regents at the end of the course.

### **The Planet Earth (464/Pace University SCI 101)**

*1 semester: 0.5 credit, 3 college credits; prerequisite: GPA of 85%+ and 1000+ on PSAT/SAT*

This course focuses on the earth, its motion about the sun, and its interior structure. Topics in physics and chemistry, including wave motion, energy, states of matter, magnetism and crystallographic structure, will be introduced to provide background for the concepts covered in the course. Laboratory experiments enhance the lecture material and provide students with instruction in the scientific method.

### **The Physical World (Pace University SCI 110)**

*1 semester: 0.5 credit, 3 college credits; prerequisite: GPA of 85%+ and 1000+ on PSAT/SAT*

Basic physical science will be introduced from a broad historical and social perspective. The technological innovations and applications based upon this material will be discussed, with emphasis on their impact on societal changes. Laboratory experiments will correlate with lecture material and the student will be provided with modern computational methods for analysis of experimental data.

### **Human Anatomy and Physiology**

*1 semester: 0.5 credit, 3 college credits (pending)*

This is an introduction course in human anatomy and physiology. Topics covered include tissues, translocation of materials, muscle and nerve physiology, blood and circulatory system, respiration, digestion and metabolism, endocrine and renal secretion, the nervous system, and reproduction.

## Social Studies

### **Ancient World History (216)**

*1 credit*

This course is designed to provide students with sufficient information to comprehend the many social forces affecting the modern world. Each unit explores the geography, culture, and history of a different region of the world from ancient times up to the Reformation. The regions that are studied include the Middle East, Asia, Africa, Latin America, and Europe.

### **Modern World History (226)**

*1 credit; prerequisite: Ancient World History*

This course continues with the study of various regions in the world from the Reformation to present times. The similarities and differences of the cultures, and the historical interaction between the regions are emphasized in each unit. The final unit of the course is an overview of the environmental, economic, and political challenges facing the world today. Students will take the Global History Regents at the end of the course.

### **United States History (251)**

*1 credit*

This course traces the role of the United States in a global society both chronologically and topically. The scope of the course will include a broad survey of information from pre-Columbian America to the early 21<sup>st</sup> century. Students will explore these topics through the analysis of key themes throughout the year. Attention is given to social, cultural, economic, and political forces which have shaped today's society. Students will take the US History Regents at the end of the course.

### **United States History Honors (255)**

*1 credit. Prerequisite: permission of department chair.*

This course is designed to provide students with a college preparatory experience, develop analytic and critical thinking skills, and increase factual knowledge of issues, themes, and events in U.S. History. The scope of the course will include a broad survey of information from pre-Columbian America to the early 21<sup>st</sup> century. Students will explore these topics through the analysis of key themes throughout the year. At the end of this course, students will take the US History Regents.

### **Economics (272)**

*1 Semester: 0.5 credit; required for graduation*

This course investigates the nature of economics and its key role in our lives. Students explore different types of economic systems with an emphasis on the American Free Enterprise system.

### **Government (274)**

*1 Semester: 0.5 credit; required for graduation*

This course provides students with a general understanding of and personal connection to the organization and function of the U.S. Government. Using current events as a frame, students will study the ideas of federalism and the details of the three branches of the US government.

### **New York State (225) and City (261) History**

*1 Semester each: 0.5 credit each*

This two-part elective focuses on the geography, politics, economics, and immigration at both State and City levels. Through an exploration of text, discussion, and experiential learning, students will be able to trace the growth of New York State and New York City history.

Students will investigate the interactions and relationships between Native American groups, Dutch and French fur traders, French missionaries, British, and early settlers as well as the arrival of various immigrant groups to New York in the mid-1800s, 1890s, 1920s, mid-1900s, 1990s, and today.

## Theology

### **Theology 9: Life Purpose (811)**

*1 Semester: 0.5 credit; required for graduation*

This class concentrates on the nature of Christian living and God's calling for the student's life. There will be emphasis placed on understanding who God is and how God has made each student for purpose. The students will discover much about themselves and how God is leading them in their lives.

### **Theology 10: A Survey of the Old Testament (831)**

*1 Semester: 0.5 credit; required for graduation*

This theology course introduces students to the Scriptures of the Old Testament. Emphasis is placed upon the relationship between God and His people, Israel, and how that relationship affects people.

### **Theology 11: A Survey of the New Testament (851)**

*1 Semester: 0.5 credit; required for graduation*

This course surveys New Testament Scripture. Emphasis is placed upon the background, content, and meaning of the New Testament. Special attention is given to the life and work of Jesus Christ and to the early church in the book of Acts.

### **Theology 12: A Seminar in Christian Ethics (871)**

*1 Semester: 0.5 credit; required for graduation*

This theology course concentrates on the nature of Christian living and application of ethics in a secular environment. Emphasis is placed upon the meaning and purpose of a Christian life as a response to God's love for us in Jesus Christ. It further confronts the student with current life situations in which certain ethical decisions are necessary.

## World Language

### **Speaking Lab (589)**

*1 Semester: 0.5 credit*

This course is an opportunity for non-native English speaking students to practice their English in direct and specific ways. The students participate in impromptu speeches, formal presentations, and conversations throughout the course. The topics of discussion include cultural comparisons, social contexts, and academic life.

### **Advanced Speaking Lab (588)**

*1 Semester: 0.5 credit; prerequisite: successful completion of Speaking Lab course; a "transitioning" score on the NYSESLAT.*

This course builds on the conversational and presentation skills learned in ESL courses and Speaking Lab. Students plan and participate in a variety of projects, produce creative writing, and create video journals on assigned topics during the year.

### **American Sign Language I (505)**

*1 credit*

This course is the first in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. The course introduces basic sign language vocabulary, sentence construction, and fingerspelling. In addition, students will be introduced to aspects of American Deaf culture and history.

### **American Sign Language II (506)**

*1 credit; prerequisite: successful completion of ASL I*

This course is the second in a series of courses designed to develop the skills and knowledge

needed to communicate in American Sign Language. This course continues to develop American Sign Language vocabulary, sentence construction, and fingerspelling. Students will continue to refine their knowledge of the deaf community and deaf education.

### **American Sign Language III (507)**

*1 credit. Prerequisite: department approval required.*

This course is the third in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. This course continues to develop American Sign Language vocabulary, sentence construction, and fingerspelling. In addition, students will continue to refine their knowledge of the deaf community and deaf education.

### **German I (515)**

*1 credit*

This is an introductory course which serves as the foundation for the four basic skills: reading, writing, listening and speaking. Authentic materials and internet-based activities are used to introduce German culture and vocabulary.

### **German II (535)**

*1 credit. Prerequisite: successful completion of German I*

This course continues the development of the four basic skills. Culture is integrated into the curriculum through film, literature, and communication with native speakers. German becomes the language of instruction during the second semester, except when new grammar is introduced.

### **German III (565)**

*1 credit. Prerequisite: 75% in German II.*

This course is conducted entirely in German. The four basic skills remain the focus with an emphasis on reading authentic materials and original writing. Students will learn about the history and current events of German speaking countries, and their interactions with native speakers will help solidify knowledge of German grammar and syntax. Successful completion of the final exam fulfills the Foreign Language Regents requirement.

### **Spanish I (516)**

*1 credit*

This is an introductory course that serves as the foundation for the four basic skills: reading, writing, listening, and speaking. Students are exposed to culture and language through authentic materials such as film and texts. The primary focus of this course is vocabulary and phrases.



**Spanish II (536)**

*1 credit. Prerequisite: successful completion of Spanish I*

This course continues the development of the four basic skills. Spanish II focuses primarily on the grammatical portion of the language and is often supplemented by authentic materials such as film and text. Spanish language is incorporated into the course second semester except upon discussion of grammatical topics.

**Spanish III (566)**

*1 credit. Prerequisite: 75% in Spanish II.*

This course continues to hone the four basic skills with emphasis on reading and writing. Students are encouraged to vocalize more openly in the language as this course is conducted entirely in Spanish. Authentic text and film are often used in this course.