

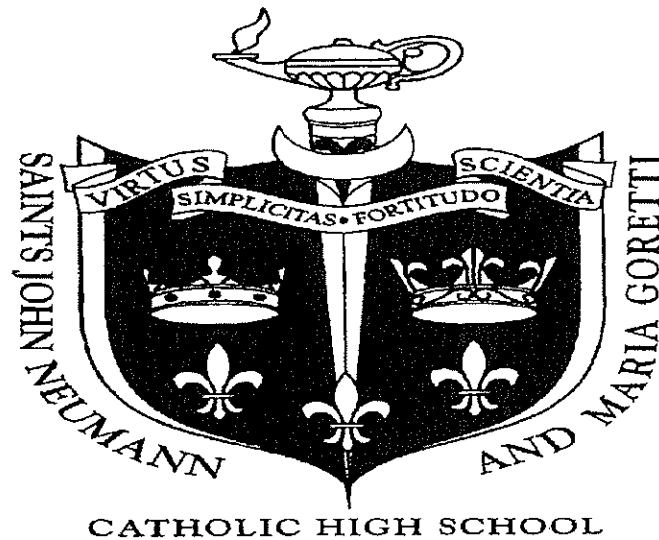
Saints John Neumann & Maria Goretti High School

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Course Catalog

2017-18

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GENERAL INFORMATION

Program of Studies

The principal goal of SS. John Neumann and Maria Goretti High School is to prepare young men and women to take their places as Christians in modern society. The planned curriculum is one step in this preparation. Through a variety of course offerings, our school endeavors to educate each student according to their intellectual talents God has given. Selection of the proper courses is a serious responsibility and should be done thoughtfully and realistically. Before making selections, students are urged to consult parents, teachers, and counselors.

Graduation Requirements

To receive a diploma from SS. John Neumann and Maria Goretti High School, a student must successfully complete 25 credits, including certain courses. These requirements are based on those of the State of Pennsylvania, Archdiocese of Philadelphia, and SS. John Neumann and Maria Goretti High School's specific requirements.

General Course Graduation Requirements

Theology	4 credits
English	4 credits
Social Studies	3 credits*
Mathematics	3 credits*
Science	3 credits*
Health	.5 credits
Physical Education	.5 credits
Technology/Business	1 credits
Fine Arts	1 credit
World Language	2 credit
Electives	3 credits
Minimum of 25 credits	

***Starting with the Class of 2018, students will be required to have 4 credits in Social Studies, Science or Math to graduate. We recommend taking a 4th year of Math, Science, and History or Language elective.**

Every student must take a minimum of six subject-credits each year and max of seven. Typical rosters are as follows:

Freshman

Theology 1
English 1
World History 1
Algebra 1
Physics First
Reading & Math Extension
Art 1 or Orchestra (1 credit)
World Language (1 credit)

Sophomore

Theology 2
English 2
American Government
Geometry
Biology
Health/Physical Ed.
Elective

Junior

Theology 3
English 3
Modern American History
Algebra 2
Chemistry
Electives (1-2 credits)

Senior

Theology 4
English 4
Electives (4-5 credits)*
***Social Studies, Math
or Science must be 1.**

Class Categories

The level of study for which they are best suited. The levels of study are described in detail below.

- **Advanced Placement** – College level courses, e.g. Advanced Placement online, in-person and the Diocesan Scholars Program. All students registered in AP courses are required to take the AP exam for a fee.
- **Honors** – College preparatory courses for students of exceptional ability and work-ethic.
- **College Preparatory** – College preparatory courses for all students.

Class Rank and Quality Points

Class rank is determined by weighted quality point average, which gives greater weight to more difficult course in the higher levels. The weighting is accomplished by assigning quality points to each mark (first semester or final grade) according to the level of the course, as outlined by the accompanied Quality Points Table. The student who ranks first in the class has the highest quality point average (the total quality points divided by adjusted credits as determined by the Archdiocese). The two types of class rank appear on the first semester and final report cards:

- **Current Rank:** Class rank based on a student's performance during the current year.
- **Cumulative Rank:** Class rank based on a student's performance over all years.
- See the quality table on page 21.

Credit

Credits are earned for successfully completing major and minor subjects. With a few exceptions, noted in the course description, courses are worth one credit each. Actual number of credits earned is indicated on the student's roster.

Honors

A student can achieve honors in any class. The requirements for honors at SS. John Neumann and Maria Goretti High School are as follows:

- **First honors** – an average of 93 with no grade lower than 90
- **Second honors** – an average of 88 with no grade lower than 85

Honors will be based on quarter grades, and will not include the semester average. Both honors require a conduct grade of no lower than 80.

Progress Reports

Progress reports are issued at the mid-point of the first, second, and third quarters. These reports provide teachers with the opportunity to comment on student's academic progress. Additionally, in accordance with Archdiocesan Policy, failure warnings for a semester or final failure are indicated on the report. Although teachers are not required to report a quarter failure, they are encouraged to keep parents aware of a student's academic difficulty.

Parent-Teacher Meetings

Parent-Teacher Conferences are held three times a year. Dates are communicated accordingly. These meetings are held for parents, students, and teachers to discuss steps required to improve academic achievement. When a failure occurs or poor performance is indicated, the parent and student are requested to meet with the teacher. These meetings can be held on a mutually agreed upon time by teacher and parent.

Report Cards

Report Cards are processed four times a year on a quarterly basis. In addition to grades, the report cards provide an opportunity for teacher comments, attendance information, and conduct history.

Course Selection Process

1. After carefully considering the available courses, students will select courses during the fourth quarter for the following school year. Students must be certain that they have the credits and courses required for graduation. Students should list an alternative course on their course selection sheet, for the possibility that their first-choice courses do not fit with the master roster. Students are urged to consult teachers, counselors, and parents for proper guidance.
2. Students will be given the course selected if they meet the basic requirements of the course and if they receive the necessary teacher recommendation. Conflicts in scheduling may necessitate adjustments.
3. The Academic Affairs Office reserves the right to withdraw any course offering if conditions warrant such a change. Elective subjects are scheduled based upon availability of faculty members and sufficient student demand.
4. Requests for a specific teacher or period cannot be honored.
5. **See the Course Selection Worksheet on page 23.**

NATIONAL HONOR SOCIETY

Membership in the National Honor Society is based on scholarship, character, service and leadership. Students do not apply for membership, but are invited to apply. Membership is granted to those students selected by the National Honor Society Faculty Council and approved by the Principal. Only Juniors and Seniors are eligible for National Honor Society.

The selection process:

All students must have the following to be academically eligible:

- A **cumulative** average of 90 percent or above
- A **cumulative** quality point average of 39
- Carry at least 6 subjects

Once candidates are identified:

- They must submit an application packet which includes but is not limited to:
- a personal essay on the provided topic
- a list of school activities in which the student is an active member
- faculty recommendations
- a parent response form
- They must be interviewed by the NHS faculty council.

Final selection

- The National Honor Society Faculty Council makes the final selection for membership in the SS. John Neumann and Maria Goretti High School Chapter of the National Honor Society. The decision of the council is final.

Members are evaluated quarterly on...

- Maintaining a 90 average overall.
- Completing a minimum of 10 hours of community service.
- Maintaining a Conduct grade of at least 85

THEOLOGY DEPARTMENT

As members of the Theology Department, we recognize each student as a child of God, redeemed through Jesus. As a consequence of this concept, we are aware that we have a sacred trust to assist our students with the process of their own maturing faith. We realize that it is necessary for them not only to develop their intellects but also their affective natures so that they may come to “full stature in Christ.” With this view in mind, we endeavor religiously to inform, as well as share in the attempt to form in our students their own individual, balanced conscience.

Our program offers opportunities for growth in the important areas of Gospel living as interpreted by the Catholic Church; namely, in the areas of message, community, worship and service. Since our curriculum is well rounded, it has as its main object the adequate preparation of students for the myriad challenges of Catholic living in our multi-faceted society. We believe and teach that principles of faith need to be central to their daily living, not only for being happy, successful members of God’s kingdom on earth, but also and more importantly, for becoming future members of his triumphant kingdom.

Grade 9

Theology 1 – 012

College Preparatory

The Revelation of Jesus Christ in Scripture

This course helps students understand the Sacred Scriptures. The Bible is the word of God where they encounter the living Word of God, Jesus Christ. Students learn about the Bible, its development and content, and how God is its author. Students focus on the Gospels, where they grow to know and love Jesus more personally.

Who is Jesus Christ?

This course helps students understand the person and message of Jesus Christ. He is the living Word of God, the Second Person of the Blessed Trinity. He is the ultimate Revelation about God, from God. Students penetrate the mystery of the person of Jesus and who he calls them to be.

Grade 10

Theology 2 – 022

College Preparatory

The Mission of Jesus Christ (The Paschal Mystery)

This course helps students understand all that God has done for humanity through his Son, Jesus Christ. God has planned, from all eternity, for human beings to share everlasting happiness with him. This is accomplished only through redemption in Christ. Students inquire about the meaning of being a disciple of Christ.

Jesus Christ’s Mission Continues in the Church

This course helps students understand that they encounter the living Jesus Christ in and through the Church. The Church was founded by Christ through the Apostles. It is sustained by him through the Holy Spirit. The Church is the living Body of Christ. Students explore the Church as a mystery which has both human and divine elements.

Grade 11

Theology 3 – 032

College Preparatory

Sacraments as Privileged Encounters with Jesus Christ

This course helps students understand that they can meet Christ today in and through the sacraments. Each sacrament, particularly the Eucharist, is a means to a full and real encounter with Christ. Students examine each sacrament in detail so as to learn how they may encounter Christ throughout life.

Life in Jesus Christ

This course helps students understand the moral life. Only in Christ can human beings discover the fullness of life. Disciples of Christ are guided by moral concepts and precepts of Christ and his Church. Students probe these moral teachings and reflect upon their implications

Grade 12

Theology 4 – 042

College Preparatory

History of the Catholic Church

This course helps students understand the Church's history from apostolic times to the present. The Church, founded by Christ, is sustained throughout history by the Holy Spirit. Students come to know that the Church is the living Body of Christ. It has both divine and human elements. The Church's 2,000 year history and how the Church has been guided by the successors of the Apostles are examined.

Responding to the Call of Jesus Christ

The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. Married life, single life, priestly life and consecrated life are explored. Students reflect upon what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

ENGLISH DEPARTMENT

The English Department endorses the philosophy of SS. John Neumann and Maria Goretti High School. We hope that our course offerings will deepen the student's knowledge, will enable them to grow in self-confidence, and will enhance their development as well-informed, articulate, Christian individuals.

Following the Common Core Standards and *Archdiocesan Curriculum Guidelines for the Study of Language Arts and Literature*, we include the content areas of language, literature and composition, as well as the skill areas of reading, writing, speaking, listening, and vocabulary development. We try to foster in our students a love of reading which will enrich their lives and will serve as the best preparation for pre-college testing (PSAT, SAT, ACT).

The goal of the English department is "to make students aware that language is basic to communication, and that writing and speaking are the devices one uses to convey ideas". We direct our students to see that "English should be a tool for the profit and use of the student, a source of improved communication with others, one way to enjoy leisure time, and at the same time to extend experiences beyond the physical limitations of one's own life setting. Literature is viewed as a record of human experiences, embodying the deepest values in life".

Grade 9

Reading Extension- 101

The goal of this program is to present students an opportunity to develop and work on their reading and writing based on where they are. The overall focus is growth as individuals and as a community. The class focuses on group work, data driven instruction, and the use of outside learning material such as presentations, videos, and more time to complete work from English 1 class. This course is about working together and building a community of strong readers that is centered on working with the individual goals that we set together based on each student's starting point. This is a non-credit class that all 9th grade College Preparatory Students are required to take in combination with Math Extension.

English Language Arts I - 111, 112

Honors & College Preparatory

Critical Reading, Writing, and Speaking supported through Genre Studies

English Language Arts I is a required course for all ninth grade students. Based on the Common Core Standards, this course provides students with the skills and knowledge to become critical readers and writers by analyzing key ideas and details, craft and structure, and the integration of knowledge and ideas in literature and informational text.

Students will develop their writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Using the full writing process, students will learn how to produce and distribute quality writing using technology's capacity to produce, publish and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of

information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.

This course is supported through various literary Genre studies.

Grade 10

English Language Arts II - 121, 122

Honors & College Preparatory

Critical Reading, Writing and Speaking supported through World and British Studies

English Language Arts II is a required course for all tenth grade students. Based on the Common Core Standards, this course provides students with the skills and knowledge to become advanced critical readers and writers by analyzing multiple themes, interpretations, and details, craft and structure, and the integration of knowledge and ideas in literature and informational text.

Reinforcing and expanding the writing objectives of the freshman year, this course will develop the student's writing skills by examining text types and purposes and by writing arguments to support claims in an analysis of substantive topics or texts. Students will write explanatory/informational texts to examine and convey complex ideas, and will write narratives to develop real or imagined experiences or events. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish, and share writing products. Students will conduct sustained research projects and will participate in a range of collaborative discussions and presentations integrating multiple sources of information. This course will further advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.

This course is supported through various selections in World and British studies.

Grade 11

English language Arts III - 131, 132

Honors & College Preparatory

Critical Reading, Writing and Speaking supported through Early American Studies

English Language Arts III is a required course for all eleventh grade students. Based on the Common Core Standards, this course provides students with the skills and knowledge to become advanced critical readers and writers by analyzing key ideas and details, craft and structure, and the integration of knowledge and ideas in literature and informational text.

This course will develop the student's writing skills by examining text types and purposes and by writing arguments, explanatory/informational texts, and narratives. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish and share writing products. Students will conduct short research projects and will participate in a range of collaborative discussions integrating multiple sources of information. This course will advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.

This course is supported through various selections in early American studies.

Grade 12

Advanced Placement English Literature-145

Advanced Placement

The Advanced Placement course involves the gifted student in a most intensive study of literature and its relevant application to serious and critical expository writing. The student learns customary modes of discourse, various rhetorical and writing devices, and the effective use of language in a clear, coherent, and persuasive way.

In this course the AP student must do careful readings of complex literature, develop critical standards for the independent appreciation of literature, and increase his/her sensitivity to

literature as shared experience. Additionally, the student must develop writing skills that enable him/her to comment on and evaluate sophisticated readings similar to those found on the Advanced Placement English Examination. The student must also complete an independent research paper. The taking of the AP exam is a requirement (Exam fee: approx. \$97.00).

NOTE: The summer assignment will count as the first major grade of the 1st quarter.

Prerequisites: Recommendation by the 11th grade English teacher and an ability to work independently.

English Language Arts IV - 141, 142

Honors & College Preparatory

Critical Reading, Writing and Speaking supported through contemporary American studies

English Language Arts III is a required course for all twelfth grade students. Based on the Common Core Standards, this course provides students with the skills and knowledge to become advanced critical readers and writers by analyzing multiple themes, interpretations and details, craft and structure, and the integration of knowledge and ideas in literature and informational text.

Reinforcing and expanding the writing objectives of the junior year, this course will develop the student's writing skills by examining text types and purposes and by writing arguments to support claims in an analysis of substantive topics or texts. Students will write explanatory/informational texts to examine and convey complex ideas, and will write narratives to develop real or imagined experiences or events. Students will learn how to produce and distribute quality writing using technology's capacity to produce, publish and share writing products. Students will conduct sustained research projects and will participate in a range of collaborative discussions and presentations integrating multiple sources of information. This course will further advance students' knowledge of the conventions of Standard English and will strengthen vocabulary acquisition and use.

This course is supported through various selections in contemporary American studies.

Electives

Grades 11 and 12

College Writing- 170

Honors

The student wishing to pursue an in-depth study of short story, poetry, news, feature and /or editorial writing will enjoy the challenges of this elective course. Working independently and with other students committed to similar projects, the students must write several compositions each quarter and critique his/her own work and that of other students. Class topics include editing skills and design principals which students must master. Work is done with word processing programs.

Prerequisite: Recommendation of current English Teacher, approval of the Department Chairperson, a minimum of an 80 average in English

Drama- 160

College Preparatory

This class is designed for the student who wants to learn about the theater while also ACTING! It is an extremely active, hands-on class that requires you to bring your best self every day.

We will cover the history of theater as well as improvisation, methods of acting, job descriptions of people who work in "the business" and perform TWO DRAMAS.

Grade 12

Our Cinema and Theater Heritage- 149

Honors

This elective course allows the student to examine and to analyze selected films. The approach to film and theater study includes a mixture of technical, historical, and thematic information and methodology. Assignments include a variety of essays, critiques, analyses, summaries.

SOCIAL STUDIES DEPARTMENT

Saints John Neumann and Maria Goretti Catholic High School's Social Studies Department has adopted a philosophy that has as its primary objective the total development of the whole student. Incorporating our Catholic values, we strive to prepare students to become active, intelligent citizens in our political democracy, and to aid in the development of those qualities which will enable them to assume productive roles in our diverse society. The members of the Social Studies Department recognize those factors that have contributed to the uniqueness of each individual, and provide students with a global outlook that will foster an appreciation for the achievements of all peoples.

All students are required to take three years of social studies. The required courses include World History, Government and Politics and Modern American History and Culture. It is strongly recommended that students take a fourth year of social studies if they intend to go on to college. Comparative Government is a required 4th year Senior Elective if a student is not rostered into a fourth year of Mathematics or Science.

GRADE 9

World History- 211, 212

Honors & College Preparatory

A history of major world civilizations designed to explore the development of the modern global community and the spread of ideologies and cultures. The curriculum employs transnational themes to provide connections which transcend time, space, and disciplines and which promote the use of the critical historical global and economic literacy skills to explore global patterns of change over time. Acquiring these skills will enable students to analyze and interpret historical events in depth and to apply their understanding to a variety of historical events.

Grade 10

American Government and Politics – 221, 222

Honors & College Preparatory

This course is a comprehensive examinations of the supreme and fundamental characteristics of the American Government system. Its study involves the origins, development, principles, organization, powers, functions, and actual workings and processes of American Government. This course utilizes critical civil, economic, and historical literacy skills to emphasize political theory, philosophy, and the nature of the government and how it has impacted the country over time. This course is designed to give a thorough knowledge and deep understanding of the Government of the United States which is essential to all American citizens.

Grade 11

Modern American History- 231, 232

Honors & College Preparatory

The first eight weeks of this course is designed to familiarize the student with the history and function of government in the United States. The course then pursues a study of United States history from post-Civil War period to the present 21st century. Integrated into the curriculum are the various techniques and skills needed to study history and social studies effectively.

Advanced Placement United States History- 235

Advanced Placement

The Advanced Placement Program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by first-year introductory college courses. Students learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An Advanced Placement

United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. This course requires extensive outside reading and writing assignments. The taking of the AP exam is a requirement (Exam fee: approx. \$87.00).

Prerequisites: Honors World History 2 and teacher recommendation; demonstrate high level of achievement in the last two years of Social Studies; parental approval

NOTE: A student who fails to complete the summer assignment on the assigned dates will be dropped from the course automatically.

Grade 12

Advanced Placement Government and Politics-245

Advanced Placement

The Advanced Placement Program in Government and Politics is designed to provide students with an analytical perspective on government and politics. Students will become familiar with various institutions, groups, beliefs and ideas that constitute U.S. politics. In addition, the Advanced Placement Program in Government and Politics prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by first-year introductory college courses.

Among the topics covered in this course are: political beliefs and behaviors, public policy, civil rights and civil liberties, political parties, interest groups and the mass media.

- This course requires outside reading and writing assignments. The taking of the AP exam is a requirement. (Exam Fee: approx. \$97.00)
- **NOTE:** a student who fails to complete the summer assignment on schedule will be dropped from the course automatically.

Prerequisites: AP United States History or Honors American History and Culture teacher recommendation: parental approval.

PLEASE NOTE: Students who have taken the AP United States History course have first preference.

Comparative Government - 242

College Preparatory

Students will analyze the basic characteristics and origins of government and economic systems. Utilizing this knowledge, students will examine the effect that social and cultural influences have on the development of these systems in several countries throughout the world. Students will compare and contrast the political and economic structures of different countries to gain an understanding of modern global geopolitics.

PLEASE NOTE: This course is required if a student does not take a fourth year of Math or Science.

Psychology : Sociology- 252

College Preparatory

In one semester, students will explore the foundation of psychology. Major topics will include methods, theories of learning and personality, child adolescent development and social psychology.

In the other semester, sociology students will explore such topics as deviance and social control, racial and ethnic relations, the family, gender, age and health issues and science and the mass media.

Prerequisites: Modern American History & Culture and teacher recommendation.

MATHEMATICS DEPARTMENT

Mathematics is required in grades 9, 10, 11 and strongly recommended in grade 12. A fourth year of Mathematics is required for students who are not rostered into a fourth year of Science or Social Studies.

The goals of the Mathematics Department are as follows:

1. To foster a positive attitude toward mathematics
 2. To meet the individual needs of the students by developing and challenging their capabilities; thereby preparing them for adult life
 3. To provide every student the opportunity to develop mathematical competencies appropriate for them
 4. To develop and strengthen skills of logic, accuracy, articulation, analysis and communication
 5. To utilize data analysis, statistics and modeling to provide a concrete structure for everyday application of mathematics
 6. To promote the development of each student's character by demanding an effort worthy of their ability and allowing them the freedom to attempt, experience and meet challenges
 7. To contribute to the development of responsible leadership and a spirit of cooperation among students
 8. To make students aware of the importance and moral responsibility in the use of global technology.
- All courses require department approval.
 - A Texas-Instrument 84 Plus (TI-84 Plus) is required for all students. A calculator is required for all courses.

Grade 9

Math Extension- 301

The goal of this program is to present students an opportunity to develop and work on their math skills based on where they are. The overall focus is growth as individuals and as a community. The class focuses on group work, data driven instruction, and the use of outside learning material such as presentations, videos, and more time to complete work from Algebra 1 class. This course is about working together and building a community of confident math students. It centered on working with the individual goals that teachers and students set together based on each student's starting point. This is a non-credit class that all 9th grade College Preparatory Students are required to take in combination with Reading Extension.

Algebra I- 311, 312

Honors & College Preparatory

Based on the Common Core Standards, students enrolled in Algebra I will examine structure in equations, and will create equations that describe numbers or relationships. Students will reason with equations and inequalities abstractly and quantitatively, will solve systems of equations and will represent and solve equations and inequalities graphically. Students will construct viable arguments for their reasoning and critique the reasoning of others.

Students will be invited to enter the Honors Mathematics Program based on their performance on the Neumann-Goretti placement test, their TerraNova or other standardized test scores, and the recommendation of their seventh and eighth grade teacher. Students should be above average in the areas of critical thinking, basic mathematic skills, and work ethic. This program allows students to complete a full year's curriculum in two math disciplines, working toward taking AP calculus in senior year.

Grade 10

Students are invited to Honors Geometry based on the successful completion of Honors Algebra 1.

Geometry- 321, 322

Honors & College Preparatory

Based on the Common Core Standards, students enrolled in Geometry will experiment with transformations in the plane, will prove geometric theorems and will make geometric constructions. Students will understand similarity, right triangles and trigonometric ratios. Students will understand and apply theorems about circles, will express geometric properties with equations, and will use geometric measurement and dimension to solve problems. Students will reason abstractly and quantitatively and will construct viable arguments and critique the reasoning of others.

Grade 11

Algebra II- 331, 332

Honors & College Preparatory

Based on the Common Core Standards, students enrolled in Algebra II will interpret and build functions, perform arithmetic with polynomials and rational functions, analyze functions using various representations, construct and compare linear and exponential models. Students will also solve problems with irrational and complex numbers, identify solutions to systems of equations, and logarithms, and exponents. Students will reason abstractly and quantitatively, will construct viable arguments and critique reasoning of others and will use appropriate tools of mathematics strategically.

Honors Prerequisite: Honors Algebra I, Honors Geometry

Grade 12

Precalculus- 341, 342

Honors & College Preparatory

The course is designed to prepare college-bound students for the rigor of post secondary mathematics. It includes solving and graphing polynomial, rational, trigonometric, exponential and logarithmic functions, the radian measure of angles and polar coordinates, solving right triangles and verifying identities. Graphing calculators are an integral part of the class work.

Prerequisites: Algebra 1, Geometry, Algebra 2

Introductory Statistics- 356

College Preparatory

This elective course is designed to introduce the big ideas of statistics and the methods used to solve statistical problems. It includes exploring data, modeling distributions of data, describing the relationships of quantitative data and probability, and estimating with confidence and inference for distribution.

Advanced Placement Calculus AB - 345

Advanced Placement

This course adheres to the guidelines for the Calculus AB level and culminates in the student's taking the AB level Advanced Placement Calculus Exam for college credit in May. The course includes limits and continuity, differentiation, slope fields, maxima and minima, implicit differentiation and integration with applications. Supplementary assignments including additional meetings outside of the regular class day to reinforce learned skills, enabling the teacher to better utilize instructional time in the classroom. Graphing calculators are an integral part of the class work. The taking of the AP exam is a requirement (Exam fee: approx. \$97.00).

Prerequisites: Honors Algebra II & Honors Precalculus

SCIENCE DEPARTMENT

The aim of science education at SS. John Neumann and Maria Goretti Catholic High School is to help each student arrive at the fullness of Christian life, by educating the whole student regardless of ability. To achieve this we cater to the physical, social, psychological, and moral needs of the students while instructing them in scientific principles and processes. The science faculty encourages students to take an active part in our scientifically and technologically advancing society while maintaining respect for life and the environment.

Three years of laboratory science are required for graduation. Students in non-elective honors courses are required to participate in designated Science Fairs. A fourth year is strongly recommended for students who go to college or who seek a medical or technical certificate. A fourth year of Science is required for all students who do not take a fourth year of Mathematics or Social Studies. All students should investigate admissions policies of the colleges of their choice and should not be content with satisfying only the minimum course requirements, even if they do not intend to pursue a career in science.

Grade 9

Physics 9- 411, 412

Honors & College Preparatory

This course covers the basics of Physics. Students are introduced to concepts that include the laws of motion, simple machines, heat, light, and electricity. Laboratory activities, safety, and experimentation supplement classroom activities. For Honors classes, participation in a designated Science Fair will be required.

Grade 10

Honors Biology- 421

Honors

This course is a rigorous presentation of biological concepts including cellular biology, biochemistry, photosynthesis, classification of living things and principles of genetics. Techniques of microscopy are pursued in appropriate laboratory exercises. Acceptance into this course is based on achievement in 9th grade, as well as percentile scores in standardized tests. Participation in a designated Science Fair will be required.

Biology- 422

College Preparatory

This course is a survey of the structures and functions of living things. History of biological discovery, life processes, cell structure, plant and animal metabolism, taxonomy, genetics and evolution are some of the topics presented. Laboratory procedures introduce students to the techniques of microscopy and data collection and evaluation.

Grade 11

Honors Chemistry- 431

Honors

This course is for highly focused students who have shown exceptional ability in previous science courses. The conceptual framework of chemistry including the structure of matter, the interactions of matter, stoichiometry, the states of matter, and the value of chemistry to contemporary life are integral parts of this course. Admission into honors chemistry is based on achievement in 10th grade honors biology, as well as percentile scores in standardized tests. Achievement in 10th grade mathematics is also advisory. Participation in a designated Science Fair will be required.

Prerequisites: Teacher recommendation based on review of science and mathematics grades, and standardized test results.

Chemistry- 432

College Preparatory

This class is presented with a theory-based approach that will provide the student with a working knowledge of the principles of chemistry and scientific investigation. Topics for discussion will include atomic theory, the periodic nature of atoms, chemical bonding and stoichiometry. The course promotes the use of deductive reasoning and laboratory skills.

Co-requisite: Algebra 2.

Grade 12

Honors Physics- 441

Honors

This course presents a modern view of physics. Emphasis is made on the fundamental concepts underlying this basic science. The course investigates the concepts of motion, forces, momentum, work, energy, and simple machines.

Prerequisite: Honors Chemistry

Co-requisite: Precalculus

Biology 2 – Anatomy & Physiology – 446

College Preparatory

The aim of this course is to familiarize the student with areas of biology beyond the scope of Biology 1. Emphasis is placed on the study of anatomy and physiology. During laboratory periods students develop microbiology and dissection skills.

Prerequisite: Biology 1, Chemistry

WORLD LANGUAGE DEPARTMENT

The World Languages department aims to provide each student with unique opportunity to develop into a world citizen, sharing in the basic human ideals that are common to all peoples of the world despite language differences. Through language study, students build a bridge of understanding of the common bond shared by all people.

The World Language Department offers introductory and advanced courses in Spanish and Italian. In addition to learning the grammar and vocabulary necessary to communicate in a new language, students will also broaden their horizons by experiencing the traditions, value systems and histories of diverse cultures.

Language study offers many benefits to students, including the ability to communicate with a wider range of people, the ability to appreciate other cultures, and enhanced memorization and thinking skills. In addition, studying the commonalities between other languages and the English language leads to a greater proficiency in English expression, vocabulary and grammar.

Many colleges require at least 2 credits of successful language study either as a prerequisite to college entrance or as a requirement for graduation from their institution. Proficiency in another language is a tremendous asset in the areas of medicine, law, scientific research, foreign relations, trade, business, social services and special programs such as the Peace Corps.

Honors Italian 1- 541

Honors

Italian I provides an introduction to elementary Italian structure presenting the spoken and phonetic skills, the written word and translations. This will be done through imitation, repetition and basic dialogues. The student will also be introduced to the richness of Italian culture through various presentations.

Students who satisfactorily complete Italian I are expected to take Italian 2.

Honors Italian 2- 543

Honors

This course involves the reinforcement and expansion of the basic elements of grammar, vocabulary and idiomatic expression. Emphasis is made on the development of one's speaking ability and the implementation of grammar in oral responses. Cultural and literary highlights are also presented and discussed.

Honors Italian 3- 545

Honors

This course will provide an opportunity to utilize and expand on the knowledge and skills acquired in the first two years of the language. Further grammatical structures, vocabulary and verb tenses with continued application are paramount. Composition, question/answer practices, class recitation, reading comprehension and discussion of readings, as well as

cultural information provide the means to achieve proficiency and mastery. Current videos, films and digital resources are used as often as possible to expose students to actual native speakers and current events in Italy.

Honors Italian 4- 547

Honors

This course aims at providing a challenging and productive experience and allows the students to carry out all the functions that they have acquired in the first three years. The students will participate actively in oral and written forms. All the skills of reading, writing, listening and speaking are incorporated within a vigorous academic setting. Grammatical and verbal structures not completed in the 3rd year will be addressed. Literary, cultural and historical topics are supplemented with readings from various sources. Current videos, films computer laboratory, and digital resources are used as often as possible to expose students to actual native speakers and current events in Italy.

Honors Spanish 1- 561

Honors

Emphasis at this level is on pronunciation and the grammatical constructions of the language, which are presented in a natural way through dialogue and pattern practices, both written and spoken. The goal is to have each student become able to express him or herself fluently in the areas being studied. Students are also introduced to many of the cultural aspects of Latino culture. This goal is further enhanced by the use of varied technologies.

Honors Spanish 2- 563

Honors

Emphasis is placed on the continuation of vocabulary building, development of conversational skills, and reading comprehension on a more advanced and complex level. Hispanic culture is further highlighted, both through the thematic chapters of the text and outside resources.

Honors Spanish 3- 565

Honors

This course is a continuation of the proficiency-oriented levels presented in Spanish 1 and 2. Those areas which have been covered in the first two years are reviewed and expanded upon while new and more advanced concepts are presented. A more in-depth view of the entire Spanish-speaking world is presented, taking advantage of the many technologies at our disposal.

Honors Spanish 4- 567

Honors

This course further elaborates on what was presented in Spanish 3. The material learned in the first three years is reinforced through conversation, and creative rather than imitative writing. More complex readings and further use of technology will give the student an even deeper insight into the Spanish-speaking population of our world.

BUSINESS/TECHNOLOGY EDUCATION DEPARTMENT

The Business/Technology Education Program is designed to provide students with the skills, knowledge, attitude and Christian ethics necessary for the development of personal, vocational and economic competence. It is generally accepted that a student's education is not complete without some knowledge of business subjects, and a working use of computers.

In addition to employment preparation, these courses develop valuable skills required by the college student for document preparation, reporting and research. The skills obtained in business/technology courses can provide the background for and access to financial resources to contribute towards college.

Grade 10, 11, or 12

Microsoft Office Specialist (MOS)- 632

College Preparatory

The MOS course consists of thorough training in each of the five programs included in the Microsoft Office Professional Suite: WORD, EXCEL, ACCESS, POWERPOINT, and OUTLOOK. This offering will prepare students for Microsoft certification in any or all of these areas.

Grades 11 or 12

Personal Finance- 635

College Preparatory

This course concentrates on skills that will enable students to make wise financial decisions in the future. It incorporates topics and concepts such as managing bank accounts, credit and debit cards, consumer purchasing, saving and investing, real estate and other investments, insurance and tax preparation. During the second half of the year, students will participate in a Virtual Business Simulation that lets them actually practice the key personal finance skills to succeed in life.

Accounting 1- 636

College Preparatory

This course aims to provide the student with an exposure to and an understanding of the basic skills of accounting for a sole proprietorship, sales, manufacturing or merchandising business. It introduces terms that enable the student to have a better understanding of the economic and financial activities of the business world for both employment and personal use. The complete business cycle is taught through the use of lectures, problems and business simulations. Students will learn and utilize automated accounting software in the computer lab.

Marketing- 638

College Preparatory

In this course, students are introduced to the industry of sports, entertainment, and event marketing. Students acquire transferable knowledge and skills among related industries for planning sports, entertainment, and event marketing. Topics included are branding, licensing, and naming rights; business foundations; concessions and on-site merchandising; economic foundations; human relations; and safety and security. Mathematics and social studies are reinforced.

Business Law/Business Management- 647

College Preparatory

Business Law begins with an overview of the development of the American legal system. The course focuses on contractual obligations; the questions of how contracts arise and what are the requirements of a valid contract. Specifically, the students will learn about employment, insurance and consumer contracts.

Business Management instructs students to understand the purpose of business and the applicable technical knowledge. The study of leadership, decisiveness, empathy, flexibility, and results gives students the background to develop their competitive edge in today's global business environment.

FINE ARTS DEPARTMENT

Fine Arts is an important and contributing factor in the total objectives of the SS. John Neumann and Maria Goretti High School curriculum. Enrollment in Fine Arts courses advances the academic and aesthetic development of the student. The formal study of music, art and dance gives the student the opportunity to enjoy a richer spiritual life, emphasizes the value of human living, and helps develop an understanding of a common bond shared by all peoples. Emphasis is placed on self-discipline and aesthetic sensitivity. Performing and visual arts courses enable the student to discover and develop creative potential, and contribute to a deeper love of our Creator, who is the source of all the arts.

For the serious performing and creative arts student, the Fine Arts Department offers four-year course sequences in Studio Art, Dance, and Music (both Band and String Orchestra instruments). Advanced courses (honors and advanced placement) enable the serious art student to engage in a deeper exploration of his or her individual and God-given creativity. The arts foster academic, aesthetic, technical and critical thinking skills necessary for growth, not only in the student's chosen discipline, but also in the school community and in life.

One credit of a Fine Arts course is a requirement for graduation.

Performing and Creative Arts Courses: Art; Instrumental

ART (Studio Art)

The studio art program is planned in a four-year studio sequence to provide developmental progress and continuity in the visual arts. Foundational and developmental instruction is offered for beginners as well as those with varying degrees of art background.

The art program is designed for the student who is serious about discovering and developing his/her creative abilities in the visual art. The first year stresses basic art elements, principles and techniques, and lays the foundation for expansion and development in subsequent years. A variety of media is presented to the student, as well as opportunities to grow in the use of imagination and critical judgment as the level of complexity increases. Slides, readings, computer presentations, field trips and visiting artists provide sources of enrichment from cultures past and present.

Emphasis is placed on self-discipline and aesthetic sensitivity, which will enrich the human spirit. It is the goal of the art program to contribute to the formation of mature students who see themselves as a participant in the creativity of God as they share in the creative process of art.

Studio Art 1- Foundations- 771

College Preparatory

This course provides an introduction to the basic elements and principles of art. Since careful observation is a requisite for learning to render from models, value studies of basic forms provide a foundation for later color studies. A wide variety of traditional media is used, including pencil, charcoal, and watercolor. Computer technology is introduced.

Studio Art 2- Design 2D/3D- 772

Honors

This Design course builds on the basic skills and concepts of Studio Art 1, but focuses on the elements of art and principles of design as they apply to two dimensional graphic design and three dimensional sculptural design. The first semester focuses on 2D Graphic design, how to make a flat surface communicate precisely, both in traditional media including pencil, charcoal, pastel, ink, painting, and printmaking and also in the art MAC CAD lab. MAC computer assisted drawing programs will be explored and utilized extensively as a means of introducing the student to the technology widely used in art and design careers. The second semester will introduce students to functional and sculptural aspects of three dimensional design in various media with emphasis on clay.

Prerequisites:

Studio Art 1; departmental approval. Class size limited. Art 1 students with the highest homework grades will be given preference.

Studio Art 3- 773

Honors

This course focuses on portfolio preparation. The serious student is provided with opportunity to develop a personal imagery and technical proficiency through exploration of a wide range of media including painting, printmaking, sculpture, and computer technology. The course begins with a review of concepts and skills from the first two years, and proceeds to emphasize the process of image making. The student is expected to carry out a variety of concepts and complete a presentable portfolio

Prerequisite: Art 1 & 2; departmental approval

Studio Art 4- 774

Honors

Students reaching this level have developed drawing and design skills that will enable them to create individual projects based on possible career choices. Each student is challenged to use skills and knowledge of the language of art, and realize a personal sense of form and design. Advanced proficiency is expected at this level. Career options are researched and explored.

Prerequisite: Art 1, 2 & 3; departmental approval

Advanced Placement Studio Art- 775**Advanced Placement**

The AP course in art is an intense program of study, which culminates in a comprehensive portfolio following very specific guidelines. The portfolio will show breadth of imagery, style and media, as well as intense concentration in a specific theme. The student's AP exam for college credit includes both digital images and actual work produced in this course. (AP Fee: \$86.00)

Prerequisites: Art 1, 2 & 3; departmental approval

Ceramics 1- 776**Honors**

This Studio Art course explores a broad range of techniques and approaches to art in the 3-D medium of ceramics. Students increase their knowledge of the elements of art and principles of design while learning studio techniques necessary for self-expression using clay. Areas of study include hand building, wheel throwing, surface decorating, glazing and kiln firing, as well as the history of ceramics from ancient times to contemporary styles, and the chemistry of clay and glazes. Emphasis is placed on self-discipline and aesthetic sensitivity while developing technical and critical thinking skills necessary for a studio practice in Ceramics. Recommended for Juniors and Seniors wishing to pursue a 3-D portfolio and as a pre-requisite for Advanced Placement 3-D Studio art.

Prerequisite:

Studio Art 1, 2 and Departmental Approval. Class size is limited to 15 students

ORCHESTRA- Grades 9 to 12

The Orchestra program is designed to offer opportunities for all students to become actively involved in musical performance in the Neumann Goretti Orchestra. String, brass, woodwind and percussion instruments are provided for student use. Foundational and developmental instruction is offered for beginners as well as those with varying degrees of musical background. Small classes, individualized instruction, workshops and special performance opportunities enhance the learning experience. Emphasis is placed on self-discipline and aesthetic sensitivity, which enhance and enrich the human spirit. Advanced students are prepared for auditions in All Catholic performance groups (Band, Jazz Band and Orchestra.)

Choir- 731**Honors**

Choir is new course this year! Choir is open to all students in grades 9-12 with no experience necessary. The mission of the Choir at Neumann Goretti is to enrich students' lives with the study of music in a choral-ensemble setting, to support their growth in both art and all traditional subjects as well as personally. Students will gain an opportunity to perform as a group in a public setting to display their craft for others to enjoy. Materials are provided.

Orchestra- 741**Honors**

This course is offered for the student who is interested in studying an instrument and performing in the school orchestra as a rostered course. Orchestral literature of various musical styles from different periods is studied and performed at the Christmas and Spring Concerts, as well as other functions. Membership in outside school music ensembles and All Catholic Band and Orchestra is encouraged as well.

**Participation in scheduled performances is mandatory and weighs in the grade for this course.*

**No prior musical experience is necessary.*

PHYSICAL EDUCATION AND HEALTH DEPARTMENT

The Department of Health and Physical Education of SS. John Neumann and Maria Goretti High School vigorously recommends that all of our students develop the skills and practice the drills that are necessary to build a foundation of physical fitness. Our students will be provided the knowledge and practice necessary to develop and maintain a high level of fitness in each stage of life.

Physical Education combined with our Health Education classes place an emphasis on the choices that we make in everyday life that will allow our students to live long, prosperous lives.

Our elective course, Foundations of Kinesiology, provides our students with the latest information and knowledge of current medical issues that will allow them the opportunity to consider a career in Health Care or Medicine.

Grade 10

Health- 912

College Preparatory

Health Education is a classroom discussion/lecture approach to addressing contemporary health issues, especially those relating to youth, such as tobacco, alcohol, and drug abuse, mental and emotional problems and basic hygiene topics. Areas such as basic human anatomy and physiology, exercise and rest, nutrition, and stress reduction are presented to promote the concept of prevention through the development of positive health practices. Diagnostic and computer technologies will be used to reinforce and enhance the learning experience.

Physical Education- 922

College Preparatory

This is a comprehensive course incorporating instruction in the major sports skills, physical conditioning and skills and fitness testing. The student will fully participate in drills; games and activities designed to stimulate physical development and to promote teamwork, fair play, and friendly competition. In our technologically advanced society sedentary lifestyles have contributed to an increase in childhood obesity and the onset of traditional adult conditions such as hypertension and diabetes. It is our goal to provide our students with the opportunity to learn and experience the physical activities necessary to maintain and enhance a healthy lifestyle. In addition, the Wii lab is a regular part of the physical education experience.

Dance- 930

College Preparatory

The course explores the dance elements of body, space, time, and force/energy as they connect to technical proficiency with particular emphasis on components of physical fitness—cardio respiratory fitness, muscular strength and endurance, flexibility, and nutrition. Students will learn the importance of maintaining a lifetime of physical activity. Students will be able to identify, demonstrate understanding, and possess the ability to perform a basic dance vocabulary by developing body alignment, balance, strength, flexibility, endurance, proper use of breath, dynamic execution, and coordination. The course also introduces dance as it relates to improvisation, expression, creativity, collaboration, performance, and cultural perspectives. Dance is explored from a Christian perspective.

Grade 11, 12

Kinesiology- 943

College Preparatory

Kinesiology is the study of human movement across a range of tasks including exercise, daily living, play, sport and work. It is our intention to promote an understanding of movement activities to enhance the physical and psychological health of our students.

Our students will also be made aware of the many employment opportunities in this field. The study of and interest in kinesiology can lead to a variety of careers involving services related to physical activity and fitness, health promotion, rehabilitation and sports medicine.

Topics such as cardiovascular exercise, physiology, muscle exercise physiology, biomechanical, disease prevention and exercise science will be discussed.

Note: Seniors will have preference being rostered into this course. Juniors will be rostered if space permits.

SPECIAL PROGRAMS

ON-LINE ADVANCED PLACEMENT COURSES

To expand course selection for students with varied interests, Neumann-Goretti eligible juniors and seniors will be permitted to register to take Advanced Placement, on-line high school courses offered by JVLA and/or Educere. There is a fee for these courses, which will be paid by the student.

- Students can only take a course on-line that is NOT offered in Neumann Goretti's regular course offering.
- Students will be assigned to a period in a computer lab or office to pursue on-line courses.
- As with any course, failure of an on-line course will affect class standing, and possible participation in graduation.
- Students requesting an on-line course must meet the requirements and sign the Advanced Placement Contract.

To view courses and fees, go to jvla.org or educere.net.

DIOCESAN SCHOLARS PROGRAM

Diocesan Scholar Courses

Advanced Placement

Juniors who rank among the top 30 of their class, as determined by cumulative rank in the first semester of their Junior year, and score a 1000 on the Junior year PSAT are eligible to apply for the Diocesan Scholars Program. Students who are chosen take college courses at participating Philadelphia-area Catholic colleges and universities during Senior year. Students receive both high school and college credit for courses successfully completed. Students interested in this program must speak with the Principal.

COLLEGE PARTNERSHIP: NEUMANN UNIVERSITY

Our partnership with Neumann University allows juniors and seniors to take college courses taught by Neumann University professors on NG's campus. Student receive full college credit on a Neumann University transcript; students do not receive NG credit that go towards quality points/ranking or GPA. Classes are typically one night per week from 5:00-8:00.

Eligibility:

- 11th and 12th grade. Current conduct grade must be 75% or higher
- All grades on previous quarter report card must be %75 or higher

Sequence of classes:

- Spring 2017: History 103
- Fall 2017: Sociology 101
- Spring 2018: Public Speaking
- Fall 2018: Psychology 101
- Spring 2019: History 103

COLLEGE INFORMATION

Students who are interested in attending college should make efforts to acquaint themselves with requirements and gear their course selections to this end. Requirements of colleges vary; however, most colleges include any or all of the following:

1. **High School Transcript**
2. **G.P.A.**
3. **College Entrance Examinations: SAT I and/or ACT**
4. **Teacher Letters of Recommendation**
5. **Resumes, including extracurricular activities**

Usually a minimum of 16 academic credits are required from these areas:

English	4 credits
Mathematics	3 to 4 credits
Social Studies	3 to 4 credits
Science	3 to 4 credits
World Languages	2 to 4 credits
Electives	1 to 4 credits

Some colleges have specific requirements in order for a student to be considered for the program of his or her choice. Early investigation into these requirements helps students to pick appropriate classes to plan accordingly for college. Students should visit the college web site, or talk to an admissions counselor to determine exact requirements for admission.

QUALITY POINTS TABLE			
GRADE	AP	HONORS	COLLEGE PREP
100	54	48	44
99	53	47	43
98	52	46	42
97	51	45	41
96	50	44	40
95	49	43	39
94	48	42	38
93	47	41	37
92	46	40	36
91	45	39	35
90	44	38	34
89	43	37	33
88	42	36	32
87	41	35	31
86	40	34	30
85	39	33	29
84	38	32	28
83	37	31	27
82	36	30	26
81	35	29	25
80	34	28	24
79	33	27	23
78	32	26	22
77	31	25	21

76	30	24	20
75	29	23	19
74	28	22	18
73	27	21	17
72	26	20	16
71	25	19	15
70	24	18	14
69	23	17	13
68	22	16	12
67	21	15	11
66	20	14	10
65	19	13	9
64	18	12	8
63	17	11	7
62	16	10	6
61	15	9	5
60	14	8	4

COURSE SELECTION WORKSHEET

The following is provided to assist you in your course section process.

In accordance with the requirements established by the Pennsylvania Department of Education and those of the Archdiocese of Philadelphia, a diploma is awarded to Neumann Goretti High School students for the successful completion of the prescribed course of studies. A student who completes four years at Neumann Goretti High School currently earns a minimum of 26 credits in grades 9 through 12 as follows:

4 credits Theology 4 credits English 3 credits Social Studies 3 credits Mathematics 3 credits Science 2 credits World Language 1 credit Health/Physical Education 1 credit Technology or Business 1 credit Fine Arts 3 credits Electives (not listed above) 25 Credits Minimum

Freshman Year	Course	Credits
	Theology 1	
	English 1	
	World History 1	
	Algebra 1	
	Physics First	
	World Language or Reading/Mat Ext.	
	Fine Arts	

Sophomore Year	Course	Credits
	Theology 2	
	English 2	
	Geometry	
	American Govt.	
	Biology	
	PhysEd/Health	
	World Language	

Junior Year	Course	Credits
	Theology 3	
	English 3	
	Mod. Amer. Hist	
	Algebra 2	
	Chemistry	
	Elective	
	Elective	

Senior Year	Course	Credits
	Theology 4	
	English 4	
	Math, Sci, or SS	
	Elective	
	Elective	
	Elective	
	Elective	