ARCHBISHOP WOOD HIGH SCHOOL
COURSE SELECTION GUIDE
2020–2021
Dear Students:

Coronam Fidelitas Merebit: Faithfulness Merits the Crown: Our motto, the words that should direct your selection of courses.

Your education should reflect a commitment to the development of the whole person: spiritually, academically, and socially. Course selection should be done carefully with the guidance of your parents and counselors and should reflect your personal goals for college and beyond. Archbishop Wood continues to expand our offerings to reflect the needs of the student of today. The Medical Careers Academy, STEM, new technology courses, dual enrollment, and a variety of electives are just some of the programs offered to help you discern your college and career path and to help prepare you for life after high school.

Make your selections carefully. Challenge yourself, raise the bar but keep in mind your goals and what is needed to achieve these goals.

My daily prayer is that your faith will grow each day and as you study and learn that wisdom and maturity will mark your life as a Wood graduate so that at the conclusion of your high school education you will have not only merited the crown of graduation, but the mark of a successful Christian young man or woman.

Mary Harkins
Principal
Dear Students:

This Guide describes the courses offered at Archbishop Wood High School. It can be of help to you in several ways. The more aware you become of the requirements, goals, and content of courses open to you in the years ahead, the better you will be able to find a mix of subjects which is best for your level of ability and your future plans. Where an actual choice among courses and tracks is available to you, use this Guide to select those offerings which can fulfill both your individual needs and the School’s requirements.

Take time then to read carefully and to understand the course descriptions, track levels, and prerequisites for a subject you are requesting. Ask questions of teachers and students involved in the courses. Don’t leave your future to chance. Seek assistance from your parents, guidance counselors, and teachers. Few things in life live up to all of your expectations, but this Guide, and a willingness to ask, can minimize the number of surprises your chosen courses will give you.

Upon completion of the rostering process, you will be expected to complete each course during the upcoming academic year. People and their interests do change. So, as more information becomes available to you, you may want to change your course selections. You can do so until the last day of school in June. However, once your roster has been prepared over the summer, any changes in courses originally requested will be subject to a $25.00 service charge, if and when the change is approved. Rarely, if ever, are course changes made after two full six day cycles have been completed in September.

Read carefully and choose wisely. We wish you the best in your courses and in your future at Archbishop Wood.

Cloe O’Grady
Assistant Principal for Academic Affairs
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GENERAL INFORMATION: COURSE REQUIREMENTS

A minimum of 26 credits is required for graduation from Archbishop Wood High School. Placement is identified as AP Level (AP), Honors Level (HL), College Prep Level (CPL), and Academic Level (AL). No course can be repeated. In the event of academic failure, the course must be rectified through summer school.

REQUIREMENTS:

GRADE 9: ELA I, WORLD HISTORY, MATHEMATICS, SCIENCE, WORLD LANGUAGE, THEOLOGY I, RELATED ARTS/INFORMATIONAL TECHNOLOGY

POSSIBLE CHOICES: ART I (DEPT CHAIR APPROVAL), MUSIC

GRADE 10: ELA II, GOVERNMENT/POLITICS, MATHEMATICS, SCIENCE, WORLD LANGUAGE, THEOLOGY II, PHYS ED/HEALTH AWARENESS

POSSIBLE CHOICES: SPECIAL PROGRAMS

GRADE 11: ELA III, US HISTORY, MATHEMATICS, SCIENCE, THEOLOGY III

POSSIBLE CHOICES: WORLD LANGUAGE, BUSINESS, SPECIAL PROGRAMS

GRADE 12: ELA IV, THEOLOGY IV

POSSIBLE CHOICES: SCIENCE, MATHEMATICS, WORLD LANGUAGE, SOCIAL STUDIES, BUSINESS, SPECIAL PROGRAMS

ELECTIVES: PLEASE NOTE: IN ORDER FOR AN ELECTIVE COURSE TO BE PART OF THE FINAL SCHEDULE, THERE MUST BE SUFFICIENT ENROLLMENT.

STUDENT RANK: CURRENT AND CUMMULATIVE

Current and cumulative rank is determined by the Quality Point Average. Total Quality Points are multiplied by the number of credits and are accumulated each year. The accumulated result is divided by the total number of credits to determine the Quality Point Average. A standard
Credit Adjustment Table is utilized which allows the school to give a student carrying an additional load a slight advantage.

**QUALITY POINT TABLE: ARCHDIOCESE OF PHILADELPHIA**

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COURSE SELECTION PROCESS

Selection (noun): The action or fact of carefully choosing someone or something as being the best or most suitable.

During the course selection process, students are strongly encouraged to discuss options with their current teachers, Guidance Counselor, and parents. This process should be given careful consideration. Some courses have pre-requisites, and some require approval. Read all course descriptions carefully. Students are not permitted to take fewer than six credits in any academic year. A strong roster reflects good preparation for college; therefore 4 years of Math, Science, and World Language is recommended. Please keep the following in mind:

- Juniors and Seniors must be certain to fulfill graduation requirements. An appointment with your Guidance Counselor before course selection is imperative.
- There are no early dismissal rosters for employment.
- There are no early dismissal rosters for sports.
- Three to four years of World Language study is strongly recommended.
- All course selections are final. There will be no elective roster changes after two completions of the six day cycle.
- The Office of Academic Affairs reserves the right to delete courses based on class size.

Before course selection is made available electronically through Power School, students are to take time to think and discuss academic options, interest, and ability so that hasty decisions are avoided. When course selection becomes “live”, students and parents will be notified.

Students will select their courses electronically via Power School. Specific instructions are posted for student/parent review. Students and parents are encouraged to review placement levels and ask questions before the course selection form is due. After courses are selected on the course selection form, it is to be carefully reviewed, printed out and submitted to the Academic Affairs Office (room 228) with parent signature.
SCHEDULING CONFLICTS
Every attempt is made to accommodate student course selections: In the event that a student chooses a course for which he or she is over/under qualified, the Assistant Principal for Academic Affairs reserves the right to make adjustments to the roster.

It is the goal of the academic program at Archbishop Wood High School to prepare students for the future by designing a strong roster that reflects the most challenging course of study for the ability level of each student.

ALL STUDENTS MUST CARRY A MINIMUM OF 6 CLASSES. NO EXCEPTIONS.

1. In order to solve potential conflicts, students who have chosen 7 courses are to list a course on their course selection form that they are willing to drop in order to resolve the conflict.

2. If a chosen Dual Enrollment Course (Manor College) results in a conflict with a course offered at Archbishop Wood that cannot be rectified, the Dual Enrollment course must be dropped and the student will be contacted.

3. In order to be placed in Dual Enrollment, the Dual Enrollment course must be the 7th class, with 6 Archbishop Wood classes on the student roster.

The Assistant Principal for Academic Affairs makes all final decisions regarding course conflicts. Archbishop Wood High School reserves the right to cancel or postpone any course in which there is inadequate enrollment or staffing.

Please note: A course scheduled at 8th period is NOT CONSIDERED A CONFLICT. Rosters will not be amended to accommodate lunch preference, sports schedules, work schedules, or dismissal before 8th period.
ADVANCED PLACEMENT PROGRAM

The Advanced Placement Program is administered by College Board. Colleges and Universities have varying policies regarding acceptance of Advanced Placement grades. Students should contact the individual schools they are considering in order to garner specific details. Each AP course requires at least one hour of homework daily. It is a college level course. **Students applying for acceptance into an AP course must consider the stringent expectations, independent nature of study, and heavy workload before course selection is completed. Students also must understand that they are not permitted to drop an AP class after August.**

Students interested in Advanced Placement courses must apply to the specific Department Chair. Final approval is determined by the Department Chair and the Assistant Principal for Academic Affairs. In addition, students enrolled in Advanced Placement Courses are required to:

1. Complete Advanced Placement summer assignment(s). Students who fail to complete the summer assignment will be dropped from the course.
2. Take the Advanced Placement Examination as prepared by College Board. The cost of each exam, determined by College Board, is the responsibility of the student. The approximate cost for each exam as of May 2020 is $94.

DUAL ENROLLEMENT

Prerequisite: by application only

**In order for a student to be placed in Dual Enrollment, 6 Archbishop Wood classes must be scheduled, with the Dual Enrollment course as the 7th class.**

Students in 12th grade are eligible to be considered for Dual Enrollment Program offered through Manor College. The individual college will determine eligibility. In this program, students may take a college level course taught by college staff on our school campus, or online. Credits are listed on a college transcript and on the Archbishop Wood transcript. There are tuition and book fees charged beyond Archbishop Wood’s tuition, and is determined by the individual college. **Tuition must be paid to the College or University prior to the start of the course.** All interested candidates should review the course description and tuition requirements and complete an application, which includes parent commitment to tuition costs. Information and applications can be found in Room 228. Following are courses offered by our Dual Enrollment Partner, Manor College*:

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<td>CJ101</td>
<td>Intro to Criminal Justice</td>
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<td>EN103</td>
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<td>BI1104</td>
<td>Medical Terminology</td>
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<td>**</td>
<td>Engineering &amp; Design Analysis I (Fall)</td>
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<td>Engineering &amp; Design Analysis II (Spring)</td>
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*Course offerings are not guaranteed and may vary as a result of staffing, scheduling, or enrollment.

**Please see pages 34-35 for Engineering Course Descriptions

***Prerequisite: Engineering & Design Analysis I
ARUPPE VIRTUAL LEARNING INSTITUTE

AVLI courses are offered exclusively as an on-line experience with rostered daily access at Archbishop Wood. AVLI teachers are seasoned Ignatian educators from Jesuit schools throughout the United States. They are certified in the subject area in which they teach. Courses are designed around a series of learning modules. Most of the work is done independently utilizing learning tools (discussion boards, blogs, wikis, and group projects) that depend on active participation. A scheduled weekly on-line meeting is required. These courses are designed to be challenging. Students can expect to commit the same amount of time to a AVLI course as they would any other challenging course. Classmates will be young men and women from other Jesuit and Catholic schools around the country. The courses are meant to be interactive experiences. As such, it is the shared responsibility of students to build a rich on-line learning community.

We invite students to consider AP Micro and AP Macro Economics. These courses are recommended for students interested in pursuing a college major in Economics, Finance, or a related business field. Students enrolled in AP courses through AVLI are required to take the AP examination as prepared by College Board. Please see page 10 to review AP course requirements.

For course offerings, tuition, and specific information, please see your Guidance Counselor or the Assistant Principal for Academic Affairs.
CAREER AND TECHNICAL EDUCATION

Students who attend Archbishop Wood may also enroll in a career or technical education program in conjunction with their academic program. Students who reside in Central bucks, Centennial, Council rock, and New Hope-Solebury districts may attend Middle Bucks Institute of Technology in Jamison. Students living in Montgomery County may attend the Eastern Center for Arts and Technology.

Students who request admission must complete the required application process as it relates to each school. Applications may be obtained through the Guidance Office or by calling the school you wish to attend.

Accepted students combine their academic preparation at Archbishop Wood with a career experience at one of the area career and technical schools. These schools provide a half-day program with students spending the other part of the day at Archbishop Wood where they continue to be a matriculated and participating student, studying their required academic subjects and participating in co-curricular and interscholastic activities. Depending on a student’s educational and career goals and the scheduling structure of the specific area career and technical school, he/she may enroll for one, two or three years. Transportation and tuition are provided by the resident district.

Parents and students interested in these programs or courses should refer to the student handbook for regulations governing students who enroll in a career and technical school.

MIDDLE BUCKS SCHOOL OF TECHNOLOGY  www.mbit.org  215-343-2480
EASTERN CTR FOR ARTS&TECHNOLOGY  www.eastech.org  215-784-4800

Following are pre-professional, career, or technical program offerings. More specific information on the programs/courses is available through the guidance Office or by contacting the individual school:

Automotive Collision Technology
Automotive Technology
Culinary Arts
Commercial Art and Design
Computer Applications/Technology
Computer Network Technology
Construction Carpentry
Cosmetology
Drafting and Design Technology
Early Childhood Care and Education
Electrical and Network Cabling
Electronics Technology
Health Occupations
Heating, Ventilation, A/C Refrigeration
Health Occupations
Marketing and Management
Media and Communications Technology
Plumbing
Precision Machining Management
Public Safety
Sports Therapy and Management
Telecommunications Technology
Welding Technology
LEVELS/PLACEMENT

Leveled courses are designed to place students in classes according to demonstrated ability and achievement. All instructional levels are college preparatory.

Course levels are as follows:

Advanced Placement: (AP)
AP courses are presented at the college level and follow the course of study developed by the Advanced Placement Program of College Board. Students interested in Advanced Placement course of study must follow the application process for each department. Students enrolled in Advanced Placement Courses are required to complete the summer assignment, and sit for the AP test as prepared by College Board. Please refer to Advanced Placement Program information on page 10.

Honors Level (HL)
Honors courses are college preparatory courses for students of high or exceptional ability and industry. Placement is determined by review of past academic achievement in the subject area, teacher recommendation, and department chair approval.

College Prep Level (CPL)
College Prep refers to college preparatory courses for students of above average ability.

Academic Level (AL)
Academic refers to college preparatory and skills based courses for students of average ability.

GUIDELINES FOR ACADEMIC PLACEMENT

Each spring, student performance is reviewed, and recommendations for placement for the next school year take place. Students who are meeting the learning goals of their classes are recommended to remain in their current level for the coming school year. Students greatly and consistently exceeding academic benchmarks in their current level may be recommended by their classroom teacher for placement in a higher level. Students who have not been able to consistently master benchmarks in their current level may be recommended by their classroom teacher for adjustment to a lower level. Following are guidelines for expectations in ability levels. These are guidelines. Final determination is made by the Department Chair and the Assistant Principal for Academic Affairs.

- Students currently in Honors Level should be consistently earning the grade of 87 or higher to remain in Honors Level.
- Students currently in College Prep Level will be considered for recommendation to Honors Level only if the student earns the grade of 93 or higher consistently.
- Students in College Prep Level who earn grades between 75 and 92 are recommended to remain in College Prep Level.
- Students in Academic Level who earn the grade of 90 or higher consistently may be considered for recommendation to College Prep Level.
ENGLISH LANGUAGE ARTS 100  
Chariperson: Mrs. Suzanne Blunt

110, 111,112 ELA I: Critical Reading, Writing, & Speaking supported through Genre Studies (1 Cr, HL, CPL, AL, Grade 9)

English Language Arts I is a required course for all ninth grade students. Based on the National 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 argument, 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.

120, 121,122 ELA II: Critical Reading, Writing, & Speaking supported through World and British Studies (1 Cr, HL, CPL, AL, Grade 10)

English Language Arts II is a required course for all tenth grade students. Based on the National 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 students’ 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 and acquisition and use. This course is supported through various selections in World and British studies.

130,131,132 ELA III: Critical Reading, Writing, & Speaking supported through American Studies (1 Cr, HL, CPL, AL, Grade 11)

Language Arts III is a required course for all eleventh grade students. Based on the National 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. 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 pre-twentieth century American studies.

140,141,142 ELA IV: Critical Reading, Writing, & Speaking supported through Contemporary American Studies (1Cr, HL, CPL, AL, Grade 12)

English Language Arts IV is a required course for all twelfth grade students. Based on the National Common Core Standards, this course provides students with the skills and knowledge to become advanced critical readers and writers by analyzing multiple themes, interpretations, 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.

144 Advanced Placement Language and Composition (1 Cr, AP, Grade 11)

This course is open only to selected students (Juniors) who have demonstrated their readiness for college-level work. Previous grades in English, standardized test scores, teacher recommendations, class rank, and the result of a qualifying test are the criteria used to determine placement in this course. The AP Language and Composition course adheres to the recommended outline suggested by The College Entrance Examination Board. Using a college-level text, the course provides a comprehensive review of grammar, paragraph structure, the drafting of a thesis, essay organization, word choice, and sentence rhetoric. All students in the course are required to take the Advanced Placement Examination in Language and Composition prepared by the Educational Testing Service of the College Board. Fees for this test, administered in May of the senior year, are the sole responsibility of the student and his or her family. Please refer to Advanced Placement information on page 10.

145 Advanced Placement Literature and Composition (1 Cr, AP, Grade 12)

This course is open only to selected students (Seniors) who have demonstrated their readiness for college level work. Previous grades in English, standardized test scores, teacher recommendations, class rank, and the result of a qualifying test are the criteria used to determine placement in this course. The AP English Course adheres to the recommended outline suggested by The College Entrance Examination Board. Through group study and independent research, students are given opportunities to develop or sharpen the skills required by composition, creative writing, and literary analysis. Course content features representative works by major writers drawn from all forms of literature. One goal of the course will be to equip students with the personal confidence needed to make reasoned, critical responses to all modes of artistic expression. All students in the course are required to take the Advanced Placement Examination in Literature and English Composition, prepared by the Educational Testing Service of the College Board. Fees for this test, administered in May of the senior year,
are the sole responsibility of the student and his or her family. Please refer to Advanced Placement Course information on page 10.

146 Journalism Fundamentals and Media Literacy (1 Cr, HL, Grade 11,12) Elective

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles.

In addition, students produce a four-page tabloid newspaper, The Viking Voice, each quarter. In doing so, they learn story selection, story editing, and page design.

Media Literacy is designed to help students develop an informed and critical understanding of the nature of an ever expanding and increasingly dominating mass media as information sources, as well as to examine, interpret, and evaluate the messages contained within, and their social, cultural, and political implications. This course will stress the development of critical thinking skills and provide the methods of analysis necessary to interpret media content.

819 Critical Thinking (1 Cr, AL, Grade 9)

Critical Thinking is an elective for incoming freshmen. It is an in-depth reading course, focusing on the comprehension and logical thinking skills necessary to navigate high school subject-area materials. Comprehension skills studied include main idea, cause/effect, and vocabulary development. Logical thinking is developed through intensive discussion and interaction with literature, current events, and content area textbooks. Writing skills are expanded throughout the year through a variety of writing activities tied to the areas of comprehension and logical thinking as described above. Students discover their individual learning styles through the introduction of a variety of organizational and study skills. These areas of concentration provide a firm foundation on which students build their future success in high school and preparation for college. Students concurrently take ELA; however, first year of language study is postponed until Sophomore year.
SOCIAL STUDIES CURRICULUM: COURSE SEQUENCE GUIDELINES

GRADE 9

World History

GRADE 10

Am. Govt.&Politics

GRADE 11

US History

GRADE 12

*Sociology/Psychology

*TheWorld/War/Germ.

*Prerequisite: Student must be enrolled in:
4th year of study in Mathematics, or 4th year of study in Science, or 3rd year of study in World Language.

210, 211, 212 World History (1 Cr, HL, CPL, AL, Grade 9)
World History is the study of major world civilizations and is designed to explore the development of the modern global community and the spread of ideologies and cultures. Students will be able to analyze and interpret historical events and to apply their understanding to historical contexts.

216 Advanced Placement World History (1 Cr, AP, Grade 9)
Prerequisite: Invitation only
The AP World History Course is structured around the investigation of six different chronological periods, from approximately 8000 B.C.E. to present. Students will understand the historical developments within each time period by using the key concepts. AP World History is equivalent to an introductory college survey course. It is also designed to develop skills of analysis and critical thinking in order to prepare students for success in the twenty-first century. Students are required to take the AP World History examination in May. Please refer to Advanced Placement Course information on page 10.

221, 222, 223 American Government & Politics (1Cr, HL, CPL, AL, Grade 10)
American Government & Politics is a comprehensive examination of the characteristics of the American Government system. It will use critical civic, economic, and historical literacy skills to provide foundation knowledge and understanding of American government which is essential to all citizens.

220 Advanced Placement American Government & Politics (1 Cr, AP, Grade 10)
Prerequisite: Department Chairperson Approval
Course content includes the Constitutional underpinnings of American Democracy: a focus on Congress, the Presidency, Bureaucracy, and Federal Courts as institutions and as policy formulators; Political Parties and Interest Groups as mechanisms that facilitate the communication of interests and preferences by like-minded citizens; the political beliefs and resultant behavior patterns of individuals; and Civil liberties/Civil Rights. All selected students are required to take the Advanced Placement Examination in American Government and Politics. Please refer to Advanced Placement Course information on page 10.
SOCIAL STUDIES 200

231, 232, 233 US History (1 Cr, HL, CPL, AL, Grade 11)

This course presents a chronological History of the United States from the beginning of the twentieth century to the present. The focus of this course will be on the economic, social, political, and foreign affairs developments of the United States of America during this time period.

230 Advanced Placement US History (1Cr, AP, Grade 11)

Prerequisite: Department Chairperson Approval:
This course presents an in-depth analysis of the American development from the Colonial Period to the present. Students will work both collaboratively and independently, while analyzing the economic, political, and social forces at work in the American experience. Course content includes interpretive articles on major periods (e.g. The American Revolution, Jeffersonian-Jacksonian Democracy, the Civil War Era, America as a World Power). Students will be required to take the AP American History examination. Please refer to Advanced Placement Course information on page 10.

241, 242 Comparative Government (1 Cr, HL, CPL, Grade 12)

Prerequisite: Department Chair Approval
Students will analyze the basic characteristics and development of government and economic systems. Utilizing this knowledge, students will analyze the relationship between political and economic institutions in various countries and the effect these institutions have on domestic and international policies. There will be a major focus on analyzing different economic and political systems to try to uncover the strengths and limitations of such systems.

243, 244 Sociology/Psychology (1 Cr, HL, CPL, Grade 12)

Prerequisite: Department Chairperson Approval
The focus of this course in the first semester is Sociology. Students will be introduced to the basic concepts and terminology of Sociology. The course will allow in-depth study of how and why people interact in groups. In addition to the basic concepts, some emphasis will be placed on comparative cultures and contemporary social problems. The focus of the course in the second semester is Psychology. Students will be introduced to the basic concepts and terminology of Psychology. Students will gain a better understanding of why people behave as they do. The combination of the two semesters will allow students to study the “individual” and how each individual interacts with other members of society.
SOCIAL STUDIES 200

250 Advanced Placement Psychology (1 Cr, AP, Grade 12)

Prerequisite: Department Chair Approval
This course will explore various topics such as human personality & behavior, human development, the human brain, social psychology, and mental illness. This course requires extensive writing and research. Accepted students are required to take the AP Psychology Exam. Please refer to Advanced Placement Course information on page 10.

260 The World At War (.5 Cr, HL, Grade 12)*
265 Nazi Germany: Hitler and the Third Reich (.5 Cr, HL, Grade 12)*
260 and 265 must be paired together for 1 credit.
Prerequisite: Department Chair Approval

The World At War: Examination of the tactics, strategy, and global significance of World War II. The logistics and scope of the conflict, importance of propaganda, patriotism, and the people will be discussed. The class will take a film-seminar approach.
Nazi Germany: Hitler and the Third Reich: Popular histories and popular culture generally are full of depictions of Hitler, Nazis, and Germany during World War II. This course examines how the National Socialist German’s Workers Party gained and excised power first in Germany and then much of Europe. The course will cover the political and social conditions that contributed to German support or toleration of National Socialism before and after 1933. Special emphasis is on Nazi racial and expansionist policies, wartime Germany, and German attempts to remake occupied Eastern Europe. The course also examines the roots of anti-Semitism, the path to the Holocaust, and the collaboration of Europeans under German rule. Besides readings from several articles and primary source materials, students should be prepared to discuss a variety of topics from readings and films.
MATHEMATICS CURRICULUM: COURSE SEQUENCE

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<tr>
<th>LEVEL</th>
<th>GRADE 9</th>
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<tr>
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<td>Geometry</td>
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300 Math Topics (.5 credit 1 AL, Grade 9)

Designed to reinforce prerequisite skills for the study of Algebra I and support introduced skills in Algebra I, this course is designed for basic foundation reinforcement.

310, 311, 312 Algebra I (1 Cr, HL, CPL, AL, Grade 9)

Based on the Common Core Standards, students enrolled in Algebra 1 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.

320, 321, 322 Geometry (1 Cr, HL, CPL, AL, Grade 10/11)

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.
MATHEMATICS 300

303, 330, 331, 332 Algebra II (1 Cr, HL Grade 9; HL, CPL, AL Grade 11)

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

340, 341, Precalculus/Trigonometry Elective (1 Cr, HL, CPL, Grade 10,11,12)

Prerequisite: Algebra II
Success in college level mathematics courses begins with a firm understanding of algebraic and trigonometric concepts which are the focus of this course. Topics include: Equations, graphs and applications of linear, quadratic, polynomial, exponential and logarithmic functions; trigonometric and circular functions, inverse functions, solutions of right and oblique triangles, identities, complex numbers and polar coordinates; sequences, series and matrices. Success in college level mathematics courses begins with a firm understanding of algebraic and trigonometric concepts which are the focus of this course.

342 Precalculus/Trigonometry Elective concepts (1 Cr, AL, Grade 12)

Prerequisite: Algebra II
This course is designed for students who need some trigonometry and additional math concepts for college but whose majors will not require a strong math background. Topics include: Linear and quadratic functions and inequalities; exponents and logarithms; trigonometric functions, applications and identities; introductory probability and statistics.

350 Calculus Elective (1 Cr, HL, Grade 11,12)

Prerequisite: Precalculus/Trigonometry, Department approval.
This course emphasizes the study of functions and limits, the derivative and its applications, integration, applications of the definite integral, transcendental functions, methods of integration and a study of plane and analytic geometry using calculus.

351 Statistics Elective (1 Cr, HL, Grade 11,12)

Prerequisite: Completion of - or concurrent PreCalculus/Trigonometry
This course introduces students to the fundamental concepts of statistics including sampling, collecting, analyzing, and drawing conclusions. Also, the course examines frequency distributions, correlation and regression, probability theory and distributions, sampling distributions, estimation, and hypothesis testing.
MATHEMATICS 300

360 Advanced Placement Calculus (1 Cr, AP Grade 12)
Prerequisite: Entrance Test required during Junior year, and Department approval based on math grades, class rank, and PSAT scores.
This course is a more in-depth approach to the topics covered in Honors Level Calculus. All students electing to take this course will be required to take the Advanced Placement Calculus Examination in May. Please refer to Advanced Placement Course information on page 10.

361 Advanced Placement Calculus BC (1 Cr, AP, Grade 12)
Prerequisite: AP Calculus AB and teacher recommendation.
This advanced course reviews the concepts of calculus, emphasizing and extending introductory topics in differentiation and integration. It is designed to prepare students for the Advanced Placement Calculus BC Examination. The course outline completes the recommended topics described by College Board at a fast and intense pace to guarantee time for practice testing exercises. Students are required to take the Advanced Placement Calculus BC Examination in May. Please refer to Advanced Placement Course information on page 10.
SCIENCE 400
Chairperson: Mrs. Sharon Hartranft

SCIENCE CURRICULUM: COURSE SEQUENCE

<table>
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<tr>
<th>LEVEL</th>
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<td>PHYSICS 9</td>
<td>BIOLOGY</td>
<td>CHEMISTRY</td>
<td>ELECTIVE</td>
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*Sequence adjustment: Honors Algebra II paired with Honors Chemistry for incoming Freshmen who have completed Algebra I. Honors Biology taken in Sophomore year. This transition will begin with the 2020-2021 school year.

410 Biology (1Cr, HL, Grade 9, 10)

Prerequisite: Completion of Algebra 1 (HL)  The course in biological science uses biology as a vehicle to present scientific principles, develop good scientific methodology, and encourage the students to use their observational skills to gain information about the world in which they live. A major emphasis is placed upon outside reading assignments and laboratory investigation.

411, 412, 413 PHYSICS 9 (1 Cr, HL, CPL, AL, Grade 9)

Physics 9 is an introductory course for first year high school students. It uses extensive investigation to study the principles of motion, forces, matter and energy, electricity and magnetism, waves and sound, light, and optics. Emphasis will be placed on data collection and analysis to assure an understanding of the laws of Physics and their application to Chemistry, Biology, Forensic Science, and Environmental Science. The course will exercise the student in practical application of mathematics to science and is taken concurrently with Algebra 1.
SCIENCE 400

414, 415, Medical Careers (.5 Cr, HL, CPL, Grade 10) Elective: By application only.
Prerequisite: Grade of 85 or above in Science, Department Chair approval. Note: Space is limited. Office of Academic Affairs reserves the right to cap enrollment. Note: This course is a minor elective. It is not a prerequisite of or requirement for any medical course of study. It is a general overview of positions in the medical field.

The goal of this elective course is to introduce students to the various careers available in the medical field. Included in the course will be topics on Allied Health career opportunities, CPR and First Aid Certification, vital signs, and legal issues in patient care. Activities will include guest speakers, field trips, and shadowing experiences. HOSA member-ship and attendance at all meeting are required. By application only.

420 Chemistry (1Cr, HL, Grade 9, 10, 11)

This course takes a historical and experimental approach to the study of chemistry. This course places a great deal of emphasis on the development of mathematical skills applied to science. Problem solving strategies are stressed. Laboratory work is an essential part of the course work. Topics include the language of chemistry, molar relationships, gases, atomic structure, nuclear chemistry, the Periodic Table, and bonding.

422, 423 Biology (1 Cr, CPL, AL, Grade 10)

This course is designed to provide the student with a systematic study of living things and their environment. A more traditional approach to the subject matter, emphasis on the evolution of various life forms and the similarities and differences among them, is employed. The student is encouraged to explore the questions raised by class discussion in numerous laboratory activities.

430, 441 Physics Elective (1Cr, HL, CPL, Grade 11, 12)

The emphasis in this course is upon principles and methods of investigation. A primary objective in this course is the preparation of the students to follow science curricula in college. Students electing this course at the Honors Level must have a good background in Algebra, Trigonometry, Geometry, and PreCalculus. At the College Prep Level, students must have strong Mathematical ability, with an 80 average in both math and Science work over their high school years.

432 / 433 Chemistry (1Cr, CPL, AL Grade 11, 12) Required

This course is designed to give the student knowledge of the nature of matter and its reactions. The course views laboratory work as an essential part of chemistry education. The use of principles to solve chemical problems is also stressed.
SCIENCE 400

435, Advanced Placement Environmental Science (1 Cr, AP, Grade 11,12)

*Prerequisite: Biology, Chemistry, Algebra and Department Chair approval.*

The goal of the AP Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students are required to take the Advanced Placement Examination prepared by the College Board. *Please refer to Advanced Placement Course information on page 10.*

436, Environmental Science Elective (1 Cr, CPL, AL, Grade 11,12)

Pennsylvania Ecology and Environment explores the interdependence of all living things and the environment in which these relationships are expressed. This course is specifically geared to PA field of study. Attention is also given to current environmental problems and the development of methods to deal with them.

438, Advanced Placement Biology (1Cr, AP, Grade 11,12)

*Prerequisite: Biology, Chemistry, and Department Chair approval.*

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course. This course differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, and the time and effort required of students. AP Biology can be taken by students after very successful completions of a first course in biology and one in chemistry as well. It aims to provide students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapid changing science of biology. Students are required to take the Advanced Placement Examination prepared by the College Board. *Please refer to Advanced Placement Course information on page 10.*

440, Advanced Placement Chemistry (1Cr, AP, Grade 11,12)

*Prerequisite: Biology, Chemistry, Algebra II, (concurrent or completed), Department Chair Approval.*

The Advanced Placement course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The emphasis in this course will be on chemical calculations. In addition, AP Chemistry also offers a laboratory experience equivalent to that of a typical college chemistry course. A written review assignment will be assigned to be completed during this summer preceding the course. Students are required to take the Advanced Placement Examination prepared College Board. *Please refer to Advanced Placement Course information on page 10.*
**445, 446, Anatomy & Physiology Elective (1Cr, HL, CPL Grade 11,12)**
The goal of this course is to provide a foundation in human anatomy and physiology. It will provide students with the necessary background to further pursue careers in science, medicine, or other health related fields and/or become more aware of the inner workings of the human body and how environmental forces affect it. This is to be achieved by the use of lecture, student presentation, laboratory work (including dissections), films, X-rays, and the use of self-directed and cooperative learning techniques in the study of gross, histological, and systemic aspects of anatomy.

**450, 451, 452 Forensic Science Elective (1 Cr, HL, CPL, AL Grade 11,12)**
Forensic Science is a course rich in exploration and lab investigation which applies many disciplines of scientific study such as biology, anatomy, chemistry, and physics to solving crimes. Students will explore the following topics: The history of Forensics and its place in popular culture, the roles of professionals involved in evaluating a crime scene, collected evidence, methodology of collecting and interpreting data, avoiding contamination, preservation of chain of custody, and how to present evidence in a professional (court room) setting.

**465 Advanced Placement Physics 1 (1 Cr, AP, Grade 11,12)**
The course covers Newtonian mechanics; work, energy, and power; mechanical waves and sound. It will also introduce electric circuits and explore these topics at the college level. This course is recommended for students who have strong Algebra, Geometry, and PreCalculus skills and who are considering careers in Science, Engineering, Technology or Medicine (can be taken in lieu of Honors Physics). This course is an excellent preparation for AP Physics, Calculus based, but is not a pre-requisite. Students with average math skills who wish to take this course should take physics in their junior year in preparation for AP Physics 1. Calculator required for this course. Students are required to take the AP Physics 1 exam as prepared by College Board. Please refer to Advanced Placement Course information on page 10.
WORLD LANGUAGE 500
Chairperson: Mr. Edward Smith

510 Italian I (1 Cr, HL, Grade 9)
This course focuses on oral proficiency and communication skills. Students are introduced to grammar and culture through readings, real-life situations, and topic-based chapters. All materials are on-line: textbook, workbook, additional practice, tutorials, and more. Also included is a made for textbook movie which highlights each grammatical topic in conversation. Writing and listening skills are practiced and enhanced through varied and interesting activities in the workbook and on the c.

511 French I (1 Cr, HL, Grade 9)
French is a basic introductory course which places emphasis on communication. Students are introduced to French through conversational lessons involving basic high-frequency concepts. All four communication skills are taught with communicative objectives. Students are introduced to the diversity of the French speaking world through various cultural units.

512, 515, 516 Spanish I (1 Cr, HL, CPL, AL, Grade 9)
This basic course emphasizes the fundamental skills of understanding and speaking the foreign language. The method calls for audio-lingual practice with emphasis on correct pronunciation and intonation. It stresses mastery of basic structural elements with the ability to comprehend reading material and to write a short essay regarding a specific topic.

520 Italian II (1 Cr, HL, Grade 10)
This course continues to develop proficiency in reading, writing, listening, and conversational skills at a more advanced level. Students continue to enrich their grammar and culture through readings, real-life situations, and topic-based chapters. All materials are on-line: textbook, workbook, additional practice, tutorials, and more. Also included is a made for textbook movie which highlights each grammatical topic in conversation.

521 French II (1 Cr, HL, Grade 10)
This course continues to develop proficiency in reading, writing, listening and speaking. Through the use of video, song and realia, emphasis is placed on listening and conversational skills.

522, 525, 526, Spanish II (1 Cr, HL, CPL, AL, Grade 10)
Intermediate Spanish provides a continuation of the skills necessary in communicating the Hispanic language and ideas of its culture through conversation and grammar at a more advanced level.

530 Italian III (1 Cr, HL, Grade 11) Prerequisite: Teacher Recommendation
This course encourages expression of ideas through the practice of speaking and writing, reinforcing skills already taught. All materials are on-line: textbook, workbook, additional
practice, tutorials, and more. Also included is a made for textbook movie which highlights each grammatical topic in conversation.

**531 French III (1 Cr, HL, Grade 11) Prerequisite: Teacher Recommendation**

This course continues a higher development of listening, speaking, reading and writing. There is controlled original writing and further development of advanced grammar through reading. Original dialogues improve speaking ability.

**532, 535 Spanish III (1 Cr, HL, CPL, Grade 11) Teacher Recommendation**

This course is devoted to the reinforcement of the skills of understanding, speaking and reading. Writing skills are stressed through the composition of short essays on specific topics and through dictation. There is an increased emphasis on reading for direct comprehension. The cultural enrichment is increased by important aspects of geographical and historical backgrounds on Spanish and Latin American cultures.

**540 Italian IV (1 Cr, HL, Grade 12) Prerequisite: Teacher Recommendation**

This course encourages the student to think independently in Italian, expressing ideas through conversation and writing. The workbook is used for practice reading and writing activities.

**541 French IV (1 Cr, HL, Grade 12) Prerequisite: Teacher Recommendation**

This course further develops the students' facility in speaking French. Conversations and discussions enhance learning, while grammar is refined. The assigned literature increases the students' knowledge of culture, history, geography, and current events.

**542 Spanish IV (1 Cr, HL, Grade 12) Prerequisite: Teacher Recommendation**

Spanish IV carries the student further in his/her development of the four basic skills while deepening his/her insights into Hispanic culture. The course stresses increased proficiency in the spoken and written language through conversation. Creative writing is developed through the completion of a personal journal. Advanced grammatical structures, selections from Hispanic literature, and current topics are covered.

**550 Mandarin Chinese I (1 Cr, HL, Grade 9)**

Students will learn basic communication skills that are useful for daily life, with emphasis on listening and speaking. Topics include greetings, family, date and time, weather, sports, shopping, and dining. Games, word activities, role-playing, and videos are used to help students develop language skills. Simplified Chinese characters will be introduced; however, writing characters from memory is not required. Additionally, the course will integrate the Chinese culture into language learning, which includes holidays, food, and pastimes.

**551 Mandarin Chinese II (1 Cr, HL, Grade 10)**

Students will further develop their listening, speaking, reading and writing skills, and gain a deeper understanding of Chinese culture. Students will learn vocabulary and grammar necessary for more complex dialogues and more sophisticated reading. Emphasis is on perfecting pronunciation and increased communicative proficiency. Topics include hobbies,
visiting friends, making appointments, school life, shopping, and transportation. Role playing, games, word activities, group discussion, and videos are used to help students develop language skills.

552 Mandarin Chinese III (1 Cr, HL, Grade 11)
This course introduces increasingly more complex sentence and grammar structure in Chinese. More emphasis is placed on reading and writing, while learning and speaking are still the primary focus. Students will make significant gains in the acquisition of vocabulary and grammar. Topics include weather changes and forecast, dining in a restaurant, asking and giving directions, attending a birthday party, and seeing a doctor. Group discussion, interactive activities, role-playing, and audios are used to help students develop the language skills.

553 Mandarin Chinese IV (1 Cr, HL, Grade 12)
This course aims to prepare students to have more confidence in listening, speaking, reading and writing Chinese. Students will be able to understand longer narratives and sustain comprehension through inferences in communication with native speakers. Students will develop the ability to write paragraphs describing situations in pictures utilizing more complicated grammar structures. Group discussion, interactive activities, audios, and videos are used to help students develop language skills. The class will be conducted in Chinese as much as possible to maximize student exposure to the language.
BUSINESS, COMPUTERS AND INFORMATIONAL TECHNOLOGY (BCIT) 600

Chairperson: Mrs. Marie Kasperski

620 Information Technology/CS Fundamentals/Intro to Financial Fundamentals (.5 Cr, CPL, Grade 9) Required

Information Technology: Students will use advanced technologies to demonstrate an understanding of effective communications skills. Students will use tools of the twenty-first century student to develop, publish, and collaborate on complex business and research-based online documents and presentations. Students will demonstrate an understanding of MLA formatting for research papers. Students will solve problems using technological communications and will refine their research using appropriate Web technologies. Understanding “Digital Citizenship” through applied processes will be the focus of class work and discussions.

CS Fundamentals: Students will learn computer-programming basics, safety on the internet, basics in algorithms & programming, and basic coding concepts. Students will learn introductory concepts within fun, easy to understand lesson formats. The lessons are aligned with CSTA standards.

Financial Fundamentals: Students will gain a foundation in consumer finance matters. Topics include: Savings, baking, investing, borrowing, credit, budgeting and costs of post-secondary studies and career options. This course will give a ninth grader a taste of important “real-life” financial matters and navigate potential pitfalls associated with becoming a responsible consumer.

630, 631 Accounting I (1 Cr, HL, CPL, Grade 11,12)

This course is designed to give the student an opportunity to learn the language of business. The accounting equation is explored and expanded to a service business and a merchandising business. Students learn three complete accounting cycles – proprietorship, partnership, and a corporation. They prepare the books of the accounting systems, make entries, prepare financial statements, learn about checking accounts, and the other financial management techniques necessary for survival. Computer application of these principles is also presented. This course provides the student with an opportunity to explore for himself/herself the “real world” in terms of his/her individual goals.
633 Financial Literacy (1 Cr, CPL, Grade 11,12)

Areas to be covered will include career planning, job applications, interviews, understanding payroll deductions and a working knowledge of federal forms such as W-4s, W-2s, 1099s and basic 1040 Federal Income tax form for the current year. Students will also learn about stocks, online portfolios, available equity, cash balance, commission and fees, cost averaging, IPO, interest on cash and loans as well as other applications for financial literacy.

638 Virtual Business (.5 Cr, CPL HL Gr. 11/12) *(MUST BE PAIRED WITH PRINCIPLES OF MARKETING)*

This highly visual computer simulation of a sports and entertainment venue allows students to handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking and promotion, and more. The Dream Team: in this simulation, students assume the role of a Microsoft Office Sports Marketing Specialist to create and promote a new sports team franchise. In order for their “Dream Team” to become an official member of the league, students will complete a series of real-world projects directly related to the team created.

639 Principles of Marketing (.5 Cr CPL, HL Grade 11,12) *(MUST BE PAIRED WITH VIRTUAL BUSINESS)*

Marketing provides the bridge between business and consumers. The goal of the course is to open the student’s eyes to the world of marketing and become educated decision-makers. Students will study consumer behavior in order to understand and apply marketing, management, and entrepreneurial principles to make informed economic decisions.

641, 642 Accounting II (1 Cr, HL, CPL, Grade 12)

This course is a refinement of Accounting I and is a valuable course for the college-bound student seeking a degree in accounting or other business-related fields. Students completing this course are also qualified to obtain entry-level positions in a number of accounting-related professions. In addition to a complete review of the accounting cycle as it pertains to proprietorships, partnerships, and corporations, students will learn inventory methods, depreciation methods, management accounting and cost accounting. In addition to the basic text and workbook, students will use accounting applications in the computer lab. Teacher recommendation required.

643 Economics (.5 Cr, CPL, HL Grade 11, 12) *(MUST BE PAIRED WITH ENTREPRENEURSHIP)*

Economics is the study of how individuals, firms, and organizational structures make economic decisions. This course focuses on the study of economic problems and the methods by which societies solve them. Characteristics of the market economy of the United States and its function in the world, as well as methods of applying economics to one’s life will be explored. Students will learn to evaluate the strengths and weaknesses of economic decision makers by employing concepts of efficiency and equity. Students also analyze and evaluate the effects of government intervention. Emphasis is placed on reasoned, logical argument.
BCIT 600

644 Entrepreneurship (.5 Cr, CPL, HL Grade 11,12) *(MUST BE PAIRED WITH ECONOMICS)*
An introductory course designed to familiarize students with the world of small business and analyze the personal strengths and weaknesses of students relative to launching a career in entrepreneurship. Attention is given to planning, financing, starting and managing a small business.

645 On Your Own: Household Engineering and Technology (1 Cr, CPL, Grade 12)
This course is designed for motivated students who have a keen interest in the challenge of problem solving. It covers life skills using project based learning methods to enhance your ability to be independent. 
Topics include: General Automotive and Driving Knowledge, General Home Ownership and Maintenance and basic 21st Century home technology.

648 Adobe/Multimedia Production (1 Cr, HL, Grade 11,12)
Adobe is an application used to perform graphic design, animation, video editing, publishing, and Web development. Photoshop, Flash and Dreamweaver will be discussed. Students will master basic photo editing, manipulation of selections in photos, and effectively use layers. While creating animations for the Web, students will master vector art, use keyframes, and create symbols. In Multimedia Production, students will be trained as news producers/reporters. Students will learn the basics of project management for print publications and multimedia production, fundamentals of design for print media and video composition, print design and video production elements and terminology, and preparation of images for print publications and video files for TV and Web. Classroom production equipment will be used to create films related to projects. Students will be expected to create and manage video and print content.

649 Business Law/Business Communications (1Cr, HL, Grade 11,12)
Courses are paired together: Offered in Semester 1 and Semester 2, and must be taken together.
**Business Law: 1st Semester:** An introduction to the basic legalities associated with the business world and the legal framework of our society. The following topics are covered: History, development, and classification of laws, personal and business laws, contract law, the court system and courtroom procedures, legal terminology, constitutional rights, ethics, technology law, intellectual property, social responsibility, international law, and consumer protection. This course will help students become aware of their rights and responsibilities under the law so that they can function as responsible citizens in their personal and professional lives.
**Business Communication: 2nd Semester:** The focus of this course is on the practical application of interpersonal skill development that will benefit all students regardless of their eventual academic or career paths. As the social, academic and business climates continue to evolve, information exchange requires technological skill development as well as an understanding of and adherence to responsible digital citizenship.
BCIT 600

650 Advanced Placement Computer Science Principles (APCSP)(1 Cr, AP, Grade 11, 12)

Note: Grade 12 students are given preference.

This course introduces students to the central ideas of computing and computer science, ideas and practices of computational thinking, and applications of computer science that have changed our world. APCSP is a course designed for all students, regardless of STEM background or intended college major or career plans. Themes include Computing Innovation, Internet Systems Programming in several languages, Data, Creativity, Algorithms, Abstraction. Students are required to produce projects for submission to College Board as well as take the APCSP examination in May. Please refer to Advanced Placement course information on page 10.

STEM EDUCATION PROGRAM 700

STEM is a curriculum which educates students in four specific disciplines: Science, Technology, Engineering, and Mathematics — using an interdisciplinary and applied approach. STEM integrates these four disciplines into a cohesive and engaging learning program based on real-world applications. Project Based Learning is one of the keys to successful STEM Education. Emphasis is on hands-on learning and applying skills learned in the core subjects to actual problem solving situations.

Engineering Design & Analysis: Manor College

This course introduces students to the engineering design process. Students will apply the engineering design process by completing a design project. Small groups of students will design, build, and test a structure or device to best achieve specified performance criteria. Supporting topics include computer-aided design, testing techniques, measurement concepts, data analysis, communication, and time management.

NOTE: Course is offered for High school credit or for College credit (Dual Enrollment)

High School Credit: No fee
College Credit: Additional Tuition Fee required through Manor College.
Engineering Design and Analysis II: Prerequisite: Engineering Design & Analysis I: Manor College
This course is a second semester continuation of the introduction to engineering design analysis course and includes another interactive team-oriented design project of greater difficulty. Emphasis is placed on numerical analysis using computational software. Supporting topics include programming, data gathering, analysis, presentation and consideration of alternate and past solutions. NOTE: Course is offered for High School credit OR for College Credit.
High School Credit: No fee
College Credit: Additional Fee required through Manor College.

763 Introduction to Architectural Design (1 Cr, HL, Grade 12)
Students learn the elements of 2D and 3D design, study top architects and their design modalities and get hands on training in computer-based architectural design software.
Prerequisite: Department Chair Approval

Please Note: STEM Education Program courses are offered depending on enrollment, student eligibility, and teacher availability. Students interested in STEM Education Program courses are to consult with their Guidance Counselor and/or the Assistant Principal for Academic Affairs.

The Engineering Design Process

1. ASK
   • What are the Problems?
   • What are the Constraints?

2. IMAGINE
   • Brainstorm Ideas
   • Choose the Best One

3. PLAN
   • Draw a Diagram
   • Gather Needed Materials

4. CREATE
   • Follow the Plan
   • Test It Out!

5. IMPROVE
   • Discuss What Can Work Better
   • Repeat Steps 1-5 to Make Changes
FINE ARTS 800  
Chairperson: Mrs. Christine Tamburini

840 Related Arts: Art Appreciation (.5 Cr, CPL, Grade 9) *Required*  
Students will study the elements of art observing and learning to see basic elements in art. They will study the art of the Egyptians, Greeks, Romans, Middle Ages and Renaissance. They will use their knowledge in hands on projects in perspective, cartooning, color design, graphics design and portraiture. This course prepares students for Art I and II, Sculpture and AP Art and provides an understanding of basics of art for everyone.

850 Art I (1 Cr, HL, Grade 9 - 12)  
Art I provides a foundation for advanced courses. This is an entry level class that begins with introduction to materials and techniques including but not limited to graphite, colored pencil, charcoal, watercolor, oil and chalk pastel, and acrylic paints. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Students will explore a variety of art processes including two and three dimensional design. Student artwork will reflect aesthetics and cultural/historical contexts. Willingness to get involved in the creative process is a more important requirement than student talent or previous experience.

880 Art II (1 Cr, HL, Grade 10, 11, 12) Prerequisite: Completion of Art I, Dept Chair Approval  
Art II is a second year course that provides an opportunity for students to expand and refine techniques on the drawing and painting concepts introduced in Art I. Emphasis is placed on experiences with design principles, drawing techniques, and painting skills (water and acrylic) leading to the development of skills that are necessary for advanced art courses. Students are given more in-depth problems to solve creatively while becoming more adept through a broad exposure to various media. They will also work with combining mediums such as watercolor and colored pencil or chalk and graphite to produce mixed media pieces. In addition, students will begin to incorporate text into their work.
Art III/Portfolio Prep (1 Cr, HL, Grade 11,12) Prerequisite: Completion of Art I, II, Dept Chair Approval

Art III is an upper level course designed for the student who wishes to further develop skills and techniques that were introduced in previous drawing and painting courses. This course is desirable for students who would like to develop a portfolio for college. Students will expand their ideas as well as their technical potential. The course will approach drawing and painting utilizing various techniques and materials. It will also offer an opportunity for students who wish to create three-dimensional art. Students will explore the element of form using a variety of materials such as clay, plaster, wood, and wire along with charcoal, watercolor and acrylic. Students explore their individual style while producing a diverse body of three-dimensional work.

FINE ARTS: MUSIC PROGRAM

891 Related Arts: Piano (1 Cr, HL, Grade 9-12)

This piano course is offered to any student who would like to learn how to play piano and has little or no background in piano or music reading. The basic techniques of piano playing and music theory skills are taught. Students are required to play the piano, complete computer programs and take tests in order to be graded and progress through the program. This class is also offered to students who have some previous knowledge of piano and/or music.

892 Related Arts: Band (1 Cr, HL, Grade 9-12)

This class is for those students who already play an instrument and would like to experience playing an ensemble setting and improve their skills of music reading and theory. Also, this class is for students who have little or no music background but would like to learn how to play a band instrument. Classes in music reading and basic theory will also be conducted. Requirement: membership in concert band and attendance at homeroom rehearsals and all performances.

893 Related Arts: Strings (1 Cr, HL, Grade 9-12)

This course is for students who play or would like to play Violin, Viola, Cello, or Upright Bass. Students will receive lessons in their particular instrument and music theory to help them read music. Students are required to play their instrument, complete computer programs, and take tests in order to be graded and progress through the program. Requirement: membership in string ensemble and attendance in homeroom rehearsals and all performances.
THEOLOGY  900
Chairperson:  Ms. Sharon Blastic

910, 911  Theology I (1 Cr, HL, CPL, Grade 9)

Semester 1:  *The Revelation of Jesus Christ in Scripture* gives students a general knowledge and appreciation of the Sacred Scriptures. Through the study of the Bible the student will come to encounter the living Word of God, Jesus Christ. Students will learn about the Bible, its development and content, and how God is its author. Particular attention will be focused on the Gospels, where students may grow to know and love Jesus Christ more personally.

Semester 2:  *Who Is Jesus Christ?* introduces students to the mystery of Jesus Christ, the living Word of God. Students will come to understand that Jesus, the Second Person of the Blessed Trinity, is the ultimate Revelation about God, from God. In learning about Jesus, students will also learn who He calls them to be.

920, 921  Theology II (1 Cr, HL, CPL, Grade 10)

Semester 1:  *The Mission of Jesus Christ* (The Paschal Mystery), 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.

Semester 2:  *Jesus Christ’s Mission Continues In The Church*, 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.

930, 931  Theology III (1 Cr, HL, CPL, Grade 11)

Semester 1:  *Sacraments As Privileged Encounters With Jesus Christ*, 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.

Semester 2:  *Life In Jesus Christ*, 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.

940, 941  Theology IV (1 Cr, HL, CPL, Grade 12)

Semester 1:  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.

Semester 2:  Helps students understand the vocations of life: how Christ calls us to live. Married, single, Christian consecrated, and priestly 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.
PHYSICAL EDUCATION and HEALTH AWARENESS
Chairperson: Ms. Margaret Mary Fitzgibbons

Physical Education 002 (.5 Cr, Grade 10 - required)
This course is designed to actively involve students in promoting a lifestyle of physical fitness and good health. Through individualized skill development and a knowledge of the components of physical, mental, and social well-being, we strive to develop opportunities for each student to live each day to his/her fullest potential.

Respect, sportsmanship, refinement of skills, knowledge of rules and learning leadership skills are emphasized along with positive attitude, cooperation and effort in participation. Our goal is to achieve a high level of wellness to allow students to enjoy family, friends and their own level of personal enjoyment.

Health Awareness 003 (.5 Cr, Grade 10 required)
The Health Awareness Program is designed to give the student an in-depth understanding of the areas that make up our total health (physical, mental, emotional, social, vocational and spiritual) to promote positive health decisions over the course of their lifetime. The subject areas covered in the course are:

1. Definition of each domain of total health
2. The importance of physical activity
3. Alcohol, nicotine, and other drugs
4. Body image, eating disorders, and nutrition awareness
5. Stress management, depression, and coping with loss
6. Goal setting
7. Self-esteem and traits of positive character

Students are provided opportunities to examine their lifestyles, to differentiate between healthy and risky behaviors and to recognize the effects of the behaviors they choose. To achieve a high level of wellness, students are encouraged to develop a strong mind, body and spirit as a lifelong habit for a healthier, happier and longer life.
College Planning Guide

To prepare yourself for college-level work, enroll in challenging high school courses

- Take at least five solid academic classes each year and choose courses based on your interest and ability
  - Math - Competitive schools require four years of math
  - Science - Competitive schools expect four years of lab science courses
  - World Language - Competitive schools expect three to four years of World Language study.

Advanced Courses (AP)

AP courses on a transcript show that the student has challenged themselves and taken the most rigorous courses available. AP courses are rigorous, but that doesn’t mean you are not up to the task.

*If a student is prepared academically and willing to work hard, success in an AP course is attainable*

Use the PSAT/NMSQT® Score Report to guide you during Course Selection

**AP Potential**

To see a list of AP courses and your potential for success based on your PSAT scores visit:

*Collegeboard> My Scores> AP Potential*

**Passport to Advanced Math**

Passport to Advanced Math questions include topics that are especially important for students to master before studying advanced math.

**AP Potential™ Key**

- Potential
- Some Potential
- Potential Not Yet Indicated

**Passport to Advanced Math**

- Need to strengthen skill
- Close to being on track
Strengthen Your Transcript - Electives

Electives are classes taken outside of the required curriculum that you get to choose including dual enrollment and AVLI. Taking elective classes can give you a chance to component of your college application is your high school transcript. Admission officers want to see that you have earned strong grades in challenging classes. If you choose electives in areas that you are excited about and will work hard in, that interest and effort will show in your grades. Here is something no one tells you about your high school education: you are in control. You oversee what you do and how well you do. It’s up to you whether you treat high school as something imposed on you — something to simply get through — or as an experience you can use to figure out what you’re excited about.

What You Do in High School Matters: The Extracurricular Edge

Extracurricular activities matter to you and to colleges. Getting involved in clubs, sports, work or other pursuits outside of the classroom can give you new skills and help you learn about yourself— and can be fun.

Here’s something else you should know: Extracurricular activities also play a part when you apply to colleges. Most college applications ask about your activities, as the things you do in your free time reveal a lot about you in ways that grades and test scores can’t. Your accomplishments outside of the classroom show what you’re passionate about and that you have qualities valued by colleges such as leadership, compassion, dedication, responsibility and reliability.

Student-Athletes

No matter how enthusiastic a college recruiter or coach is about a student-athlete, admission decisions will still be made by the college admission staff. No matter how outstanding the high school athlete, simply meeting NCAA academic requirements may not be enough to gain admission to desired colleges. As with any student, the more rigorous a course load a student-athlete takes, the more options he/she has when it comes time to choose a college.
The Role of the School Counselor

One of the major functions of our work as counselors is to help prepare our students for the transition from high school into their post-secondary choice. We do our best to work with students to help create an individualized plan that makes sense for that student based on their long-term goals.

**Freshman | Year at a Glance**
- PSAT 8/9
- Naviance
- Resume
- Career Interest Profiler
- Meet your School Counselor
- 1:1 Session

**Sophomore | Year at a Glance**
- PSAT/NMSQT
- Update Resume
- Do What You Are Personality Inventory

**Junior | Year at a Glance**
- PSAT/NMSQT
- SAT Update Resume
- College Super Match
- Advanced College Search
- College Essay

**Senior | Year at a Glance**
- SAT/ACT
- SAT Subject Tests
- The College Application Process
- Instant Decision Opportunities
- Scholarships
- Transcripts
- Common App
- Letters of Recommendation

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**RepVisits**

All students will have opportunities to connect with college admissions counselors.

Upcoming College Visits are listed by date and time on Naviance.

*Register on Naviance > What's New > Show More > Register Now*

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**remind**

Sign up for important updates from Archbishop Wood’s Counseling Department.

Our Counseling Department will send important reminders and updates regarding upcoming events, Opportunities, deadlines, etc. **Text the number below to join your class**

**CLASS OF 2021**

**CLASS OF 2022**

**CLASS OF 2023**