The Berwick Area School District does not discriminate on the basis of race, color, national origin, sex, age, religion, or disability in its activities, programs, or employment practices as required by Title VI, Title XI, Section 504, and ADA. The School District will provide those related services, aids, and accommodations which are needed to afford all students an equal opportunity to participate in and obtain benefits of the school program and co-curricular activities without discrimination and to the maximum extent appropriate to the student’s ability.

For information regarding Civil Rights, Grievance Procedures, as well as services, activities and facilities that are accessible to and usable by disabled persons contact Mrs. Wendy Kupsky, Assistant to the Superintendent in charge of Student Services, Berwick Area School District, Berwick, PA (570-759-6400).

Information contained in this book is subject to change. If you have any questions call Berwick Area High School at (570) 759-6400 ext. 3100.
Mission Statement

The Berwick Area School District operates public school classes from kindergarten through senior high school. The mission of the Berwick Area School District is to provide quality education for all which fosters flexible and independent thinking and action within the diverse context of family, community, and cultural structure in order to maximize each student's potential in an ever-changing society.

Vision Statement

We will be a district that prepares students to meet the multiple challenges they will face in all facets of life.

Belief Statements

We believe:

1. That quality education should be available to all students
2. Students should be adequately prepared for an ever-changing society
3. In independent thinking and action
4. In responsible citizenship
5. In collaborative partnerships
6. In embracing diversity
7. In maximizing student potential
8. In a flexible and progressive education
GUIDANCE DEPARTMENT

Students are assigned to counselors as follows:
- 9th & 10th surnames A-L/11th & 12th non-college bound: Ms. April Zluchowski
- 9th & 10th surnames M-Z/11th & 12th non-college bound: Mr. Keith Seely
- 11th & 12th College Bound: Ms. Heather Melito

Appointments may be made by calling the high school guidance office at (570) 759-6400 ext. 3103, during regular school hours: 7:30am – 3:00pm.

GRADING SYSTEM

Students receive a percentage grade for courses granting credit. Report cards are issued every nine weeks. Parents can access Skyward through the district website to view a student’s grades at any time.

GRADING AND WEIGHTING SYSTEM

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100</td>
</tr>
<tr>
<td>B</td>
<td>85-92</td>
</tr>
<tr>
<td>C</td>
<td>77-84</td>
</tr>
<tr>
<td>D</td>
<td>70-76</td>
</tr>
<tr>
<td>E</td>
<td>Below 70</td>
</tr>
</tbody>
</table>

A weighted grading system is used across the curriculum. All courses offered at BHS are classified into three categories.

- Advanced Placement/STEM – 1.08
- Dual Enrollment/Honors/BU Education Program – 1.04
- Academic – 1.00

GRADE POINT AVERAGE AND CLASS RANK

Class rank is calculated from a student’s grades throughout high school. Each of the four years equally affects the grade point average and rank in class. These figures can have a significant influence on post high school opportunities.

Class rank is based on the weighted grading system. Reported rank is established at the culmination of each school year for grades nine through twelve.

HONOR ROLL

High school students who have earned a grade point average (each marking period) of 95 and above and no incompletes or failed courses are eligible for the Distinguished Honor Roll. High school students who have earned a grade point average (each marking period) of 93 - 94.99% and no incompletes or failed courses are eligible for the Honor Roll.
SUMMER SCHOOL
Students who fail to meet the requirements for graduation from Berwick Area High School will not be permitted to participate in the class commencement ceremony. They may later qualify for the diploma under the following conditions:

- Complete the required courses in summer school.
- Return to school the following year

Summer school is also available to any student wishing to make up failed courses. Check with the BHS guidance office for summer school fees and scheduling.

ENROLLMENT INSTRUCTIONS FOR SCHEDULING
Selecting the right courses can lead to many educational and career opportunities. The selection process should be a joint effort involving the primary participant, the student, as well as parents, teachers, school counselors, and administrators. This brochure is distributed as part of a general information session. Individual counseling appointments can be scheduled as needed.

INSTRUCTIONS FOR PROGRAM CHANGES and WITHDRAWAL PROCEDURES
It is important that the student and parents carefully select a program of study that is best suited to the students’ needs. A program evolved after careful study and consultation with teachers, counselors, and parents should require NO MAJOR CHANGE. Students must meet their course commitments for the FULL YEAR. Requests for schedule changes SHOULD NOT be delayed until the school year begins in August.
ADVANCED COURSES AND SPECIAL PROGRAMS

Students who are interested in pursuing a rigorous academic course of study are encouraged to follow the enriched and more challenging honors course earmarked for them in:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>015</td>
<td>Integrated English (H)</td>
</tr>
<tr>
<td>022</td>
<td>World Literature (H)</td>
</tr>
<tr>
<td>032</td>
<td>English 11 (H)</td>
</tr>
<tr>
<td>042</td>
<td>College Writing (H)</td>
</tr>
<tr>
<td>043</td>
<td>AP English Language &amp; Composition</td>
</tr>
<tr>
<td>044</td>
<td>AP English Literature &amp; Composition</td>
</tr>
<tr>
<td>057</td>
<td>AP Seminar</td>
</tr>
<tr>
<td>058</td>
<td>AP Research</td>
</tr>
<tr>
<td>117</td>
<td>AP US History</td>
</tr>
<tr>
<td>122</td>
<td>AP World History</td>
</tr>
<tr>
<td>132</td>
<td>AP US Government &amp; Politics</td>
</tr>
<tr>
<td>142</td>
<td>AP Psychology</td>
</tr>
<tr>
<td>247</td>
<td>Spanish IV (H)</td>
</tr>
<tr>
<td>249</td>
<td>AP Spanish Language &amp; Culture</td>
</tr>
<tr>
<td>333</td>
<td>Geometry (H)</td>
</tr>
<tr>
<td>341</td>
<td>Algebra II (H)</td>
</tr>
<tr>
<td>352</td>
<td>Advanced Math (H)</td>
</tr>
<tr>
<td>355</td>
<td>AP Statistics</td>
</tr>
<tr>
<td>370</td>
<td>AP Calculus AB</td>
</tr>
<tr>
<td>380</td>
<td>AP Calculus BC</td>
</tr>
<tr>
<td>407</td>
<td>Integrated Science (H)</td>
</tr>
<tr>
<td>411</td>
<td>AP Biology</td>
</tr>
<tr>
<td>423</td>
<td>Chemistry I (H)</td>
</tr>
<tr>
<td>425</td>
<td>AP Chemistry</td>
</tr>
<tr>
<td>428</td>
<td>AP Physics 1</td>
</tr>
<tr>
<td>431</td>
<td>AP Physics C: Mechanics</td>
</tr>
<tr>
<td>433</td>
<td>AP Physics C: Elec &amp; Magnetism</td>
</tr>
<tr>
<td>582</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>591</td>
<td>Office Asst with MOS Cert (H)</td>
</tr>
<tr>
<td>659</td>
<td>CADD (H)</td>
</tr>
<tr>
<td>660</td>
<td>STEM CADD</td>
</tr>
<tr>
<td>743</td>
<td>AP Music Theory</td>
</tr>
</tbody>
</table>

Students who are interested in the above courses are expected to complete an application for each course of interest. Applications will be evaluated by the respective academic departments. Declined applications may be subject to a student-initiated appeals process.

AP CAPSTONE DIPLOMA AND CERTIFICATE

AP Capstone is a creation of the College Board to certify that students at participating high schools have attained rigorous research and communication skills through the completion of several research tasks. Students seeking to apply to selective colleges and pursue careers in scientific, technical, or professional careers where research and communication are core skills should seriously consider participation in the AP Capstone courses.

The AP Capstone Diploma is awarded to students at participating high schools who have:

- taken AP Seminar and earned a qualifying score (3, 4, or 5) as a final assessment,
- taken AP Research and earned a qualifying score as a final assessment,
- earned qualifying scores on any 4 other AP Exams.

The AP Capstone Certificate is awarded to any student qualifying in AP Seminar and AP Research who does not earn qualifying scores in 4 other AP Exams.

More information is available regarding AP Capstone at [https://advancesinap.collegeboard.org/ap-capstone](https://advancesinap.collegeboard.org/ap-capstone).
BHS STEM PROGRAM
The BHS STEM Program is designed to foster scientific knowledge, research ability, and career exploration for BHS students interested in rigorous academic work and pursuing a career in science while staying in a high school environment. Students seeking to graduate with BHS STEM Honors must complete 8 AP or Honors courses in Science, Technology, Engineering, Mathematics, and Research, specifically including AP Seminar and AP Research.

BHS STEM Program required courses: AP Seminar, AP Research, AP Calculus AB, AP Biology, AP Chemistry, AP Physics: Mechanics.
BHS STEM Program elective courses: AP Calculus BC, AP Physics: Electromagnetism, AP Statistics, AP Psychology, AP Computer Science Principles, STEM CADD

All BHS STEM Program students are automatically enrolled in the AP Capstone courses (AP Seminar and AP Research) and are eligible for the AP Capstone Diploma and Certificate.

STEM/Education MAGNET PROGRAM (Bloomsburg University)
The STEM and Education programs held at Bloomsburg University of Pennsylvania will allow high-achieving high school juniors and seniors to get a head start on a college career in the STEM/Education disciplines. This program will consist of four different tracks: engineering, health sciences, technology, and education, but also will give students interested in math or other sciences the tools needed to be successful in college. For more information about the program visit www.bloomu.edu/stem.

DUAL ENROLLMENT PROGRAM
Through the Dual Enrollment program students attend a local college or university either during the school day or in the evening. Dual Enrollment allows students to earn credits that will apply at the collegiate level while also meeting high school graduation requirements. Minimum requirements exist for students to be eligible for this program. All requirements as well as a more detailed description of the program can be found on the school district website under High School Guidance.

LACKAWANNA COLLEGE DUAL ENROLLMENT PROGRAM
Juniors and seniors who enroll in identified Berwick High School courses and register for the course through Lackawanna College will be eligible to earn college credit upon successful completion of the course. All costs associated with Lackawanna College are the responsibility of the student.
CAREER TECHNICAL EDUCATION (CTE) PROGRAMS

Berwick High School (BHS) offers career technical education in order to prepare students for careers in technical fields for employment opportunities or future education. BHS has three career technical education programs: Accounting, Criminal Justice, and Management Information Systems. Each of these programs consists of a series of courses that the student takes over the course of their high school career. These programs are three-year sequences, which a student begins in their sophomore year.

These career technical education programs are open to both BHS students and students residing in other school districts. Under state law, students residing in other school districts may pursue one of these three career technical education programs if the specific program is not offered in the school district where they reside.

Students who complete at least 50% of the courses in one of these career technical education programs take the NOCTI exam. This end-of-program exam consists of two sections, a written section and a performance section. The written section tests the students’ recall of the theory and content. The performance section requires students to perform hands-on tasks.

Students in the career technical education programs have access to a variety of work-based learning opportunities, including job shadowing, internships, and cooperative work experiences. BHS works closely with a wide variety of local employers and businesses to provide students with these opportunities.

COOPERATIVE WORK EXPERIENCE

Co-op/Work Experience is educational programming that integrates classroom theory with practical experience in the workplace. Cooperative education provides seniors the opportunity to develop skills and gain work experience, while receiving exposure to real-world applications. Participants who successfully complete the program may be eligible to receive 1-3 high school credits. At the end of their junior year, students must meet in person with the co-op coordinator, Mrs. Julie Cerasoli-Kishbaugh, to learn about the specific program requirements. Prior student absences, tardiness, grades, and other related information will be checked before students are approved to schedule co-op. Students who are not currently employed will be contacted during the summer and must be actively looking for employment in order to be scheduled for the upcoming school year. Good communication between the student, the parent and the co-op coordinator is essential for success. Co-op students are expected to maintain an acceptable passing average in their academic classes, to conduct themselves as ladies and gentlemen, and to maintain a no-absence policy. Students who are not in attendance at school are not permitted to work that day. In addition to above, students and parents must complete the required documentation and contractual forms before beginning their cooperative work experiences.
High School Graduation Requirements

Many of these credits fall into specific categories and may not be counted in more than one area. Students must accumulate at least the number of units of credit as indicated below for graduation from the Berwick Area Senior High School. The following is a breakdown of those credit/course requirements. **THE ULTIMATE RESPONSIBILITY FOR ACCUMULATING THE APPROPRIATE CREDITS LIES WITH THE STUDENT.**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>English</td>
</tr>
<tr>
<td>4</td>
<td>Mathematics</td>
</tr>
<tr>
<td>4</td>
<td>Science</td>
</tr>
<tr>
<td>4</td>
<td>Social Studies</td>
</tr>
<tr>
<td>2</td>
<td>Physical Education</td>
</tr>
<tr>
<td>1</td>
<td>Health</td>
</tr>
<tr>
<td>1</td>
<td>Amer &amp; Global Bus Economics (class of 2020-2022) OR Foundations of Career Readiness (Class of 2023 and beyond)</td>
</tr>
<tr>
<td>1</td>
<td>Music Appreciation</td>
</tr>
</tbody>
</table>

**25 total credits**

**KEYSTONE EXAMS**

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. Students must demonstrate proficiency on the Algebra, Literature, and Biology Keystone Exams to graduate. Students will be offered multiple opportunities to take the Keystone Exams throughout their high school career.

**GRADUATION PROJECT**

Students are required to document *thirty hours* of community service/job shadowing beginning in their freshmen year. During November of their senior year students will complete an oral presentation and interview about their experiences. The project proposal must be pre-approved by a school counselor. More information can be found on the Berwick High School webpage or in the high school guidance office.
For all courses marked with * an application is required.
All weighted courses and the amount of their corresponding weights are indicated.

COMMUNICATIONS

012/013 COMPOSITION - Freshmen - 1 cr.
Content – This course is designed to provide an opportunity for students to improve upon competencies in reading, writing, speaking, and listening. Individual attention is given for continued acquisition of reading and writing skills. Students will read and write frequently and plentifully. From essays to short stories, writing will be both analytical and creative, with intensive focus on the writing process. Students will continue to acquire the fundamentals of grammar and will broaden their vocabulary.

*015 INTEGRATED ENGLISH (H) – Freshmen – 1.5 cr. – Weighted 1.04
Prerequisite – Application required
This course is designed to challenge students to become more dynamic readers of texts they encounter and to help them begin to master the skills and conventions necessary to fulfill a variety of academic tasks. The course addresses both expository writing and literary analysis. It also provides an overview of literary genres. Short fiction, drama, and the novel form are considered. Students read cross-culturally in a variety of genres and focus on the concepts of literary analysis.

020/021 WORLD LITERATURE GENRES - Sophomores - 1 cr.
Content – This course gives students a background in the various forms of literature—novel, short story, essay, poetry, and drama. It reviews and continues to expand skills in speech, writing, vocabulary, grammar usage, and literature appreciation.

*022 WORLD LITERATURE GENRES (H) - Sophomores - 1 cr. - Weighted 1.04
Prerequisite – Application required
Content – This course includes an intensive study of world literature in various genres with emphasis on increasing composition and language skills. Outside readings are required for the summer and during the year.

030/031 ENGLISH 11 - Juniors - 1 cr.
Content – This course includes an overview of American literature including studies of American novels, short stories, essays, and poetry. Written and oral composition, and language study are also included. State-mandated Project Based Assessments will be completed in this course as needed on an individual basis.

*032 ENGLISH 11 (H) - Juniors - 1 cr. - Weighted 1.04
Prerequisite – Application required
Content – This course includes intensive reading and analysis of the literary history and genres of American literature and application of advanced language skills.
040 REEL WRITING - Seniors - 1 cr.
Content – This course emphasizes literary concepts and writing through age-appropriate film study. Focus areas will include but not be limited to analysis of plot, character, symbolism, universal themes, and satire. Non-fiction, historical fiction, and poetry will also be highlighted through film and a variety of reading selections. A portion of the course will also focus on “real” writing. Students of varied learning styles will enjoy the “world of writing and self-expression” generated by the films included for study in this course.

041 COLLEGE WRITING – Seniors – 1 cr.
Content - A thorough exploration and application of general academic writing techniques and assignments. Students in this class should expect an overview of college-level composition. Proper citation, avoidance of plagiarism, and integration of quoted material will be highlighted.

*042 COLLEGE WRITING (H) - Seniors - 1 cr. – Weighted 1.04
Prerequisite — Application required
Content - An accelerated, rigorous, and in-depth exploration and application of college-level writing techniques and assignments. Students in this course will be expected to demonstrate academic independence and a high level of maturity. Investigation and application of assignments applicable to students' intended majors will be highlighted. This course may be taken for college credit through Lackawanna College.

*043 AP ENGLISH LANGUAGE AND COMPOSITION - Sophomores, Juniors - 1.5 cr. - Weighted 1.08
Prerequisite — Application required
Content – This course is designed to accommodate the exceptional language arts student who may elect this course to fulfill the eleventh-grade communications graduation requirement. This is a college-level course which prepares the student for the Advanced Placement Test. Students should be aware of the rigor, intensity, and scope which this course will demand. The students will be required to complete summer reading designated by the instructor. The writing content will focus upon lengthy expository, analytical, and argumentative essays. Students are required to take the AP exam at the end of the course.

*044 AP ENGLISH LITERATURE AND COMPOSITION - Juniors, Seniors - 1.5 cr. - Weighted 1.08
Prerequisite — Application required
Content – This course is designed to accommodate the exceptional student of Language Arts. This is a college level course which prepares the students for the Advanced Placement Test. The course involves intensive writing as a response to the extensive reading of all literary genres from a variety of time periods. Summer reading will be required by the instructor. The student will be expected to demonstrate critical and analytical thought, participate in frequent class discussions, and refine the writing process. Students who have developed motivation, critical thinking, and broad literature backgrounds can expect an intensified work load in this course. Students are required to take the AP exam at the end of the course.
*050/051  WRITING CENTER CONSULTANT – Sophomores, Juniors, Seniors – 0.5 - 1 cr.  
Prerequisite – Application required  
Content - Consultants/tutors who volunteer in the Berwick High School Writing Center (BHSWC) meet with fellow students in grades 9 -12 to offer assistance in all phases of the writing process. Consultants will offer help in generating ideas, developing better sentences, improving paragraph development, and even establishing and finalizing the overall piece of the assignment. In the final phase of the process, consultants may even be used for grammatical/technical edits. *This course will be graded on a Pass/Fail basis and is not included in GPA calculations.*

*057  AP SEMINAR – Juniors – 1 cr. – *Weighted 1.08*  
Prerequisite: AP Physics 1 or AP Language and Composition. Participation in either BHS STEM Program and enrollment in AP Science/Math courses OR pursuit of AP Capstone Diploma and enrollment in sufficient AP courses to meet Capstone Diploma requirements – three other AP courses recommended.  
College Board Requirements:  
Students will conduct individual research on particular aspects of a team project and respond with a research paper and reference list. A team will combine to incorporate all of their individual research into a team presentation and respond to instructor questions.  
1. Students will conduct a separate individual research project and again respond with a research paper and reference list.  
2. Students will then create an individual multimedia presentation highlighting their research and respond to questions.  
3. Students will take a College Board written AP Exam in May designed to have students analyze and create arguments based on research excerpts provided on the exam.  
Content: Focuses for the course will be in improving communications skills in scientific and career contexts - particularly through oral presentations, improving research skills, and communicating data effectively. Along with the research task requirements list above and preparation for the culminating exam, students will regularly explore the careers of guest speakers in careers involving STEM. The course will culminate with the “My Future” project involving both a written and oral presentation detailing the student’s future career plans, how that career matches the student’s strengths and interests, and what educational programs the student will apply to and pursue in order to achieve the student’s career goals. More information on AP Seminar course:  
https://apstudent.collegeboard.org/apcourse/ap-seminar

*058  AP RESEARCH – Seniors – 1cr. – *Weighted 1.08*  
Prerequisite: AP Seminar. Participation in either BHS STEM Program and enrollment in AP Science/Math courses or pursuit of AP Capstone Diploma and enrollment in sufficient AP courses to meet Capstone Diploma requirements – three other AP courses recommended.  
College Board Requirements:  
1. Students will conduct a year-long research-based investigation to address a research question of their own choosing and design.  
2. Students will document their research progress in an electronic portfolio.  
3. Students research will be completed through a 4000-5000 word academic essay.
4. Students will complete an oral presentation, supported by visual elements, and respond to specific questions regarding their research.

Content: Focuses for the course will be in extending the development of research, communication, data analysis, and career skills for STEM fields and other rigorous career tracks. Students will also engage in job shadowing opportunities that will assist them in choosing their desired career path. More information on the AP Research course: [https://apstudent.collegeboard.org/apcourse/ap-research](https://apstudent.collegeboard.org/apcourse/ap-research)

060 SAT PREP – Sophomores, Juniors – 0.5 cr.
Content - This class is designed to prepare students for the SAT. This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing in addition to reviewing topics from algebra and geometry. This course will also include a discussion of the effective use of a graphing calculator. Much time will be devoted to practice problems similar to those on the SAT. This class will meet daily for one full semester.

075 PUBLICATIONS I - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content – In Publications I, students learn multiple skills of book production including writing, layout design, proofing, photography, advertising sales, and yearbook financial management.

076 PUBLICATIONS II - Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Publications I
Content – This course includes instruction and practice in writing copy and captions, editing, and photographic skills including special effects and composition. Adding to these are also design skills for the yearbook. All of the work will be on computers using PageMaker/Desktop Publishing. These students will also be working on the yearbook after school.

077 REPORTING AND WRITING FOR THE MEDIA - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content – This course includes the mechanics of competent writing. Students will learn and practice various types of media writing. Students should have strong English skills as well as an interest in writing. Students will be included as a staff member on a school publication.

079 VIDEO PRODUCTION – Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content – The course will encompass all skills involved in today’s broadcast media. These elements will provide a background as students explore the fundamentals of video, audio, and production skills. Students will explore video production through hands-on experience.

080 TELEVISION PRODUCTION – Juniors, Seniors - 1 cr.
Prerequisite – Video Production (formerly Journalism II)
Content – Students will explore all aspects of television production. They will write scripts, direct, produce, and edit original programming using digital equipment.
097 EFFECTIVE SPEAKING – Juniors, Seniors - 1 cr.
Content – This course includes an interpersonal communication unit with a focus on
critical listening skills and group dynamics. Informative, persuasive, and process
speeches will be constructed, presented, and analyzed. Students will learn and practice
techniques used in oral interpretation. The course also includes units in theatre arts and
film.

098 PUBLICATIONS ASSISTANT – Juniors, Seniors – 1 cr.
Prerequisite – Approval by instructor; Current member of yearbook staff
Content – Publications assistants will assist with multiple skills of book production
including writing, layout design, proofing, photography, advertising sales, and yearbook
financial management. Students will assist the teacher with materials set-up,
organization and design of projects, deadlines, helping students learn the rudiments of
Adobe Photoshop CS5 and photography skills. This course will be graded on a Pass/Fail
basis and is not included in GPA calculations.

099 JOURNALISM ASSISTANT – Seniors – 1 cr.
Prerequisite – Approval by instructor
Content – Journalism assistants will complete advanced broadcast journalism
assignments while assisting the teacher with daily classroom duties. JAs will study
advanced video editing, planning, and production. This course will be graded on a
Pass/Fail basis and is not included in GPA calculations.

SOCIAL STUDIES

106/107 AMERICAN HISTORY I - Freshmen - 1 cr.
Content – This course is designed to provide a rigorous, in-depth knowledge of
American history from Reconstruction through 1945. Major themes of this course will
include the Reconstruction Period, World War I, the Roaring Twenties, the Great
Depression, and World War II. Course objectives will be achieved through various types
of oral/written presentations and research projects.

115/116 AMERICAN HISTORY II - Sophomores - 1 cr.
Content – This course is intended to study the internal politics and foreign policies of the
U.S. since 1945. Emphasis will be placed upon emergence of the U.S. as a world power
and our position as leader of the free world. Present-day historical events will be
compared and contrasted with the major events of the past. Various audio/visual aids
will be employed to highlight different areas of the course.

*117 AP US HISTORY – Sophomores - 1.5 cr. - Weighted 1.08
Prerequisite — Application required
AP US History is a college level course with the objective of increasing the students’
understanding of United States history from discovery to the present. Students who
enroll in the course must be prepared for a rigorous college-level workload. Areas of
concentration include historical, political and economic history, along with concentrated
study of cultural and intellectual institutions and their development. Emphasis is placed
on critical and evaluative thinking skills, essay writing, interpretation of original
documents, and historiography. Enrollment in the course includes the expectation of taking the AP US History exam in May.

120/121 WORLD HISTORY – Juniors - 1 cr.
Content – This course is designed to include the historical periods of the Reformation, Enlightenment, French Revolution, Napoleonic Era, Age of Revolutions, nationalism, liberalism, militarism, colonialism, globalization and World War I, and their effects on the twentieth and twenty first century. Asian and African geopolitical development is also to be studied.

*122 AP WORLD HISTORY – Juniors, Seniors – 1.5 cr. - Weighted 1.08
Prerequisite – Application required
Content – This course is a college level world history course that covers prehistory through modern times, covering all regions of the world. The course addresses world history through the lens of four historical thinking skills, five course themes, and six chronological periods. Essential historical content is studied by focusing on these items and using historically relevant events to illustrate these concepts and to practice the mastery of important historical skills. AP World History is a rigorous course that will require students to not just memorize historical events but develop a true understanding of history and of the world around them through making connections and analyzing historical data. In order to receive the weight for the course, students are required to participate in the AP World History exam. This course will be offered in odd years only.

130/131 AMERICAN CIVICS and GOVERNMENT – Seniors – 1 cr.
Content - American Civics will provide a comprehensive background for the understanding of United States citizenship and the foundations and operation of American government. Students will apply this understanding to current event topics relevant to our nation and election issues. This course will emphasize civic participation by the students.

*132 AP US GOVERNMENT AND POLITICS– Seniors - 1.5 cr. - Weighted 1.08
Prerequisite - Application required
Content – This college level course is designed for students to demonstrate analytical perspective on government and politics in the United States. It requires familiarity with general concepts and the ability to analyze the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Independent readings, current events study, their comprehension and analysis both in and outside of class are expected, including a summer assignment. Effective reading comprehension, organized writing, and participation in class discussions are essential to success. The curriculum is extensive, in-depth and quickly-paced as dictated by the College Board in preparation for the AP exam which students are required to take at the end of the course.

*142 AP PSYCHOLOGY – Juniors, Seniors – 1.5 cr. – Weighted 1.08
Prerequisite – Application required
Content – This is a college-level course providing students an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human
and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. This is an online course meeting during the school day. In order to receive the weight for the course, students are required to participate in the AP Psychology exam. *This course may be taken for college credit through Lackawanna College.*

**WORLD LANGUAGES**

241 SPANISH I - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content – This course covers the necessary basics of Spanish grammar combined with a vocabulary which will permit the student to converse on an elementary level. Lessons will be integrated with cultural discussions. Students will be expected to do homework on a regular basis.

243 SPANISH II - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Spanish I
Content – This course will enable the student to build on his foundation of the language through practice in listening, speaking, reading, and writing. Videos of various native speakers will be utilized to help students learn proper pronunciation and to improve listening skills.

245 SPANISH III - Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Spanish II
Content – This course is designed for the student who has shown a strong capacity in Levels I and II. Basic grammatical concepts will be reviewed and more advanced grammatical points will be introduced. The videos, which coincide with the text, will further the students’ listening and oral skills.

*247 SPANISH IV (H) – Juniors, Seniors - 1 cr. - Weighted 1.04
Prerequisite — Spanish III, Application required
Content – This course will review previously-learned grammar topics and study additional grammar themes. Class time will be spent reading and listening in Spanish, using selected readings and videos. Writing skills will be enhanced through a variety of writing prompts and spoken Spanish will be routinely practiced. The course’s focus is on communication, with grammar concepts applied through the communicative activities.

*249 AP SPANISH LANGUAGE AND CULTURE - Seniors - 1 cr. - Weighted 1.08
Prerequisite – Application required.
The AP Spanish Language & Culture course is comparable to a college Spanish language course. Emphasizing the use of Spanish for active communication, the course further develops and improves the five basic language skills: listening, speaking, reading, writing, and culture. Students greatly improve their ability to communicate in Spanish. Authentic materials in Spanish are used in this course, which is conducted in Spanish. Exam preparation focuses on reading comprehension, vocabulary acquisition, cultural understanding and comparison to US culture, writing proficiency, comprehensible speaking, and listening competence. Students are required to take the AP exam at the end of the course.
261 LATIN I—Freshmen, Sophomore, Juniors, Seniors—1 cr.
Content - This is a course that utilizes an online curriculum in a classroom setting. The purpose of this course is to give students a foundation in Latin grammar and vocabulary. This course will also introduce students to the Olympic gods and give a brief overview of Roman history.

263 LATIN II — Sophomore, Juniors, Seniors—1 cr.
Content - This course utilizes an online curriculum in a classroom setting. In this course, students will build upon their knowledge of Latin grammar and vocabulary. Roman engineering, art, commerce and system of laws will be explored to demonstrate the flexibility of the language.

281 JAPANESE I – Freshmen, Sophomores, Juniors, Seniors – 1 cr.
Content - This introductory course in Japanese language provides the basic communication skills in Japanese. This course is designed for high school level students who have no prior experience in Japanese language and are interested in learning basic Japanese language as well as culture such as origami, food, and game. Throughout the course, students will develop four language skills: listening, speaking, reading and writing. Japanese characters, Hiragana, Katakana, and Kanji, will be taught and practiced in the class.

283 JAPANESE II – Sophomores, Juniors, Seniors – 1 cr.
Prerequisite – Japanese I
Content - Continuation of the skills learned in Japanese 1 with an emphasis on advanced grammar and vocabulary. Students must have previous competency in Japanese language. All four language skills of listening, speaking, reading, and writing will be covered. The students will continue learning Japanese culture through hands-on activities.

MATHEMATICS

320/321 ALGEBRA I – Freshmen - 1.5 cr.
Content – This course provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. The main goal of this course is to provide students with a thorough and extensive study of linear functions, graphing on the xy-coordinate system, and factoring. The concept of a function is emphasized throughout the course. By the end of this course, students will have all the knowledge necessary to solve and graph equations and inequalities as well as apply exponent rules to solve problems. They will then be able to apply this knowledge to other areas of math.

323 KEYSTONE ALGEBRA – Freshmen, Sophomores, Juniors – 0.5 cr.
This class is required for all students who have passed Algebra I but have not scored Proficient or above on the Algebra I Keystone Exam. Course content will include intensive review of algebraic concepts tested on the related Keystone Exam. An individual course outline will be determined in order to focus on the topics not passed on the previous exam.
330/332 PLANE GEOMETRY - Freshmen, Sophomores - 1 cr.
Content – This course develops inductive reasoning and applies it to topics of perpendicular and parallel lines and planes. This includes a study of polygons (particularly triangles) with emphasis on congruency and similarity. Topics include circles and the relationship between the measurements of certain arcs, angles, and segments. Problems involving areas of plane figures and volumes of solids are also covered.

*333 PLANE GEOMETRY (H) – Freshmen – 1 cr. – Weighted 1.04
Prerequisite – Application Required;
Content – The traditional geometry curriculum along with more in-depth proof, algebra and logic. Additional topics include truth tables, Venn Diagrams, technology based inductive/deductive reasoning done with basic programming of the TI-84+ graphing calculators. This will give a foundation to a future STEM student or those interested in taking AP Calculus and AP Computer Science. Students will learn how to write basic programming code for beginning programs.

339 ALGEBRA II – Sophomores, Juniors, Seniors – 1 cr.
Prerequisite – Algebra I
Content - This course will provide a continued study of concepts previously learned in Algebra I such as solving equations and inequalities as well as graphing linear functions. We will then introduce quadratic and polynomial functions in addition to the study of radicals, irrational numbers, and properties of exponents.

340 ALGEBRA II – Sophomores, Juniors, Seniors – 1 cr.
Content – This course will provide a continued study of the Algebra I concepts with an emphasis on radicals, irrational numbers, polynomial functions, systems, and quadratic relations.

*341 ALGEBRA II (H) – Freshmen, Sophomores, Juniors - 1 cr. – Weighted 1.04
Prerequisite — Application required
Content – This course will provide a continued study of the Algebra I concepts with an emphasis on radicals, irrational numbers, polynomial functions, systems, and quadratic relations. The course also explores more challenging problems.

343 CONSUMER MATH – Seniors – 1 cr.
Prerequisite – Algebra II
Content – This is a math course designed to connect the algebra you have previously learned to your current life. You will learn strategies to help you gain knowledge of the value of money. Topics such as Investing, Banking, Credit, Income Taxes, Insurance, Household Budgeting, Cell Phone Contracts, Car Costs and more will be covered. This course will advance some algebra topics with piecewise functions, regressions, reading and understanding graphs and exponential functions. It will answer the daily question, “When am I ever going to need this?”

345 STATISTICS/PROBABILITY - Sophomores, Juniors, Seniors - 1 cr.
Prerequisite – Algebra II
Content – The real data used and collected by the students is organized, analyzed, and displayed to show patterns and surprises. Students solve practical problems by simulating, sampling, and modeling to generate their findings and interpretations of the
solutions. Demonstrations, experiments, and surveys are conducted by the students in groups and individually. *This course may be taken for college credit through Lackawanna College.*

350 INTRODUCTION TO COLLEGE MATH – Juniors, Seniors - 1 cr.  
Prerequisite - Algebra II  
Content – This course presents a variety of topics that most non-math or non-science majors will encounter in college. Topics such as sets, logic, base systems, and number theory are covered.

351 ADVANCED MATH - Sophomores, Juniors, Seniors - 1 cr.  
Prerequisite - Algebra II  
Content – This course places special emphasis on the study of functions in general, with particular attention paid to circular functions, trigonometric functions, algebraic functions, exponential functions, and logarithmic functions.

*352 ADVANCED MATH (H) - Sophomores, Juniors, Seniors - 1 cr. - *Weighted 1.04  
Prerequisite — Algebra II, Application Required  
Content – This course places special emphasis on the study of functions in general, with particular attention paid to circular functions, trigonometric functions, algebraic functions, exponential functions, and logarithmic functions. Sequences and series lead to applications of the theory of limits and the binomial theorem.

*355 AP STATISTICS – Sophomores, Juniors, Seniors – 1 cr. – *Weighted 1.08  
Prerequisite – Algebra II, Application Required  
Content – A non-calculus based introductory statistics course that presents the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experiments including planning a study, producing models using probability and simulation, and using statistical inference by testing hypotheses. A focus for this course is interpreting and communicating data results. Students are required to take the AP exam at the end of the course. *This course may be taken for college credit through Lackawanna College.*

360 CALCULUS – Juniors, Seniors - 1 cr.  
Prerequisite –Advanced Math  
Content – This course provides an intuitive introduction to the methods of calculus. An introduction to the idea of limits and continuity is also given. The course concludes with a more involved approach to differentiation and integration.

*370 AP CALCULUS AB – Juniors, Seniors - 1.5 cr. - *Weighted 1.08  
Prerequisite —Advanced Math, Application Required  
Content – This course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Broad concepts and widely applicable methods are emphasized. Through the use of unifying themes of derivatives, integrals, limits, approximation, applications, slope fields, and modeling, this course becomes a cohesive whole rather than a collection of unrelated topics. These are developed by using the following functions: linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse
trigonometric and piecewise. Students are required to take the AP exam at the end of the course.

*380  AP CALCULUS BC – Seniors - 1.5 cr. - Weighted 1.08
Prerequisite — AP Calculus AB, Application Required
Content – This course builds on the foundation of mathematical concepts explored in AP Calculus AB. Concepts from Calculus AB, such as the definition of the derivative, the Value Theorems, the Fundamental Theorems of Calculus, and finding volumes using cross-sectional areas, will be explored in greater depth using both investigative assignments, problem solving, and written essays. New calculus concepts will be learned, such as using L’Hopital’s Rule to determine limits, finding the limits of improper integrals, and discovering techniques to determine the convergence of series. This will lead to some critical topics as students learn how to use Taylor and MacLaurin series to approximate nearly any function with a polynomial, and use parametric and polar functions to investigate the velocity and acceleration of moving objects in a 2-D plane. These topics typically constitute much of the curriculum of a typical college calculus sequences second semester. Students are required to take the AP exam at the end of the course.

SCIENCE

404/405 ECOLOGY – Freshmen – 1 cr.
Content - This course contains an overview of environmental topics including biomes and diversity, population ecology, pollution, agriculture, water quality, and energy.

*407 INTEGRATED SCIENCE (H) – Freshmen – 1.5 cr. – Weighted 1.04
Prerequisite – Algebra I, Application Required
Content – Taught on an honors level, this course provides an overview of important ecological concepts as well as the entire Biology I curriculum. Topics covered include ecological relationships and changes, evolution of species, genetic theory, and the relationship between structure and function at all levels of organization among living things.

408/409 BIOLOGY I – Sophomores – 1 cr.
Prerequisite – Ecology
Content - This course presents the diversity of life, ecological relationships and changes, genetic theory and the relationship between structure and function at all levels of organization among living things.

410 BIOLOGY II – Sophomores, Juniors, Seniors – 1.5 cr.
Prerequisite – Biology I/Integrated Science (H), Chemistry I (may be taken concurrently)
Content – This course covers fundamental concepts of biology, including the chemical properties of life, cellular biology, genetics, and systems biology with supplementary laboratory course work. The year concludes with an exploration of anatomy and physiology through dissection of a fetal pig. Biology II is geared toward students interested in the allied health sciences, including, but not limited to, programs for nursing, physical therapy, and dental assisting/hygiene.
*411 AP BIOLOGY – Sophomores, Juniors, Seniors - 1.5 cr. - Weighted 1.08
Prerequisite – Biology I/Integrated Science (H), Chemistry I (may be taken concurrently)
- Application Required
Content – Covers all 55 chapters contained in a college text book in fulfillment of the
Advanced Placement curriculum for biology. Major units covered included ecology and
animal behavior, biochemistry, the cell, genetics, and mechanisms of evolution. Students are required to take the AP exam in May. Following the AP exam, all students will dissect the fetal pig, completing a unit on anatomy and physiology.

421/422 CHEMISTRY I – Juniors, Seniors - 1 cr.
Prerequisite — Biology I or Integrated Science (H)
Content – This course includes IUPAC nomenclature, chemical equations, gases, atomic
structure, stoichiometry, chemical bonding, periodic table, pH and qualitative analysis. The course also provides laboratory experience in the topics discussed.

*423 CHEMISTRY I (H) – Sophomores – 1.5 cr. - Weighted 1.04
Prerequisite – Integrated Science (H), Application Required
Content - Taught on an honors level, this course is intended for the student planning to
major in chemistry, biology, or physics in college. The course includes all topics covered
in Chemistry I (IUPAC nomenclature, chemical equations, gases, atomic structure,
stoichiometry, chemical bonding, periodic table) as well as pH and qualitative
analysis. This course also provides laboratory experience in the topics discussed.

*425 AP CHEMISTRY – Juniors, Seniors – 1.5 cr. – Weighted 1.08
Prerequisite – Chemistry I and Algebra II, Application required
Content – This course is designed as an entry-level college chemistry course. Topics covered include: gases, equations, stoichiometry, organic, nuclear, coordination chemistry, calculus-based calculations, thermodynamics, kinetics, and laboratory. Students taking this course should have a solid background in basic chemistry and algebra and should be highly self-motivated. Students are required to take the AP Chemistry exam at the end of the course.

426 KEYSTONE BIOLOGY/SCIENCE TECHNOLOGY – Juniors - 1 cr.
Prerequisite - Biology I
Content – This course is designed to prepare the student for success on the Biology Keystone exam and as such will review all the major concepts of Biology I with additional emphasis on test taking skills. The second part of the course will cover physical science concepts of force and motion both conceptually and practically using robotics concepts and hands on activities.

427 PHYSICS I – Sophomores, Juniors, Seniors - 1 cr.
Prerequisite – Chemistry I (may be taken concurrently with teacher recommendation)
Content – The goal of physics is to explain the physical universe in terms of basic
interactions and simple particles. Topics covered include: kinematics, Newton’s laws,
statics, momentum, energy, pressure, and torque. The focus will be on understanding
the concepts of physics, but math applications will also be explored.
*428  AP PHYSICS 1 – Sophomores, Juniors, Seniors – 1 cr. – Weighted 1.08
Prerequisite – Chemistry I (May be taken concurrently with instructor approval), Application required
Content – This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students are required to take the AP exam at the end of the course.

*431  AP PHYSICS C: MECHANICS – Juniors, Seniors - 1.5 cr. - Weighted 1.08
Prerequisite – Advanced Math (may be taken concurrently with teacher recommendation) and Physics, Application required
Content – This course will cover the main concepts found in a first semester college level physics course intended for scientists and engineers. Topics will include but will not be limited to: kinematics, projectile motion, Newton's Laws, statics, circular motion, work, conservation of energy, linear momentum, rotation, torque, angular momentum, oscillations, and simple harmonic motion. This course will include a hands-on laboratory component where each student will compile a lab notebook or portfolio of lab reports. Students are required to take the AP exam at the end of the course.

*433  AP PHYSICS C: ELECTRICITY AND MAGNETISM – Seniors – 1.5 cr. – Weighted 1.08
Prerequisite – Advanced Math (may be taken concurrently with teacher recommendation) and Physics, Students are strongly encouraged to take AP Physics C: Mechanics as a prerequisite or concurrently, Application required
Content – This course will cover the main concepts found in a second semester college level physics course intended for scientists and engineers. Topics will include but will not be limited to: electrostatics, series and parallel circuits, conductors, capacitors, dielectrics, magnetic fields, and electromagnetism. This course will include a hands-on laboratory component where each student will compile a lab notebook or portfolio of lab reports. Students are required to take the AP exam at the end of the course.

436  INTRO TO EARTH AND SPACE SCIENCE - Seniors - 1 cr.
Prerequisite – Chemistry I
Content – This course provides an introduction to the study of the composition, structure, and process of the earth, its geologic history, and its place in the universe. The four major branches of earth science that are studied are geology, meteorology, oceanography, and astronomy.
BUSINESS COMPUTER AND INFORMATION TECHNOLOGY

505 FOUNDATIONS OF CAREER READINESS – Freshmen - 0.25 cr.
Content - Students will develop career exploration skills by taking interest surveys, understanding the 8 learning styles, and participating in career activities and career clusters. Students will learn soft skills needed for securing and keeping a job. This course is designed to expose students to the principles, concepts, and procedures relating to personal interest, skills and abilities, workplace communication, career exploration, computer applications, soft skills and choice of career pathways. This course will meet daily for one marking period as part of the Freshman Foundations courses.

525 BUSINESS CONCEPTS - Freshmen and Sophomores – 1 cr.
Content - Students will explore the small business environment and related basic economic concepts. They will also evaluate their interests, skills, and abilities as potential entrepreneurs. In addition, students will complete basic studies in accounting, office note-taking, business law and management, computer applications, and other areas of study related to the business world.

542 BUSINESS MATH – Juniors, Seniors – 1 cr.
Required of all students in the Accounting Program
Content - Students will learn to effectively use mathematics as a tool in their personal and business lives. Upon completion of this course, students will be able to apply mathematical concepts in various personal and business situations. Students will explore topics such as business statistics, profit calculations, payroll banking, interest calculations, insurance, taxes, and other business topics. This course is a hybrid environment with online course materials and teacher led instruction.

545 ACCOUNTING I – Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Required for students in the Accounting Program
Content – This course is structured to prepare students for beginning accounting. It presents all phases of the accounting cycle beginning with source documents being recorded in journals. Students will learn: posting to ledgers, work sheets, financial statements, and bank reconciliations. This course introduces business forms, business techniques, and business procedures. Instruction also encourages development of good work habits, accuracy, neatness, analysis, and execution. Students entering the Accounting CTE should take this course during the sophomore year.

547 AUTOMATED ACCOUNTING II - Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Accounting I
Required for students in the Accounting Program
Content – This course reviews basic principles of debit and credit theory as well as the accounting cycle. It includes the following phases of accounting: departmental purchases and cash payments, departmental sales and cash receipts, payroll accounting, bad debts, accounts receivable, depreciation, adjusting, closing, and reversing entries, drafts, corporations, automation theory, installment, and various other types of sales. Computers are utilized for accounting efficiency; students are required to bring their laptops to class each day.
548  ACCOUNTING III – Juniors, Seniors – 1 cr.
Prerequisite – Accounting II
Content – Students enrolled in Accounting III will receive more in-depth training in this advanced course. Necessary skills will be developed for college-bound students, or students looking to gain employment after high school in a related field. Bad debts, depreciation, notes and interest will be discussed. Computerized simulations will be emphasized extensively throughout the semester. Importance will be placed on decisions made in the managerial accounting of corporations by analyzing financial statements; professional business ethics are also emphasized. Students will use integrated technology to work on projects and complete simulations to apply theories and generate reports. Use of Excel and Quickbooks will be utilized.

560  FUNDAMENTALS OF INVESTING – Sophomores, Juniors, Seniors – 0.5 cr.
Required for students in the Accounting Program
Content – This course will center on developing a broad understanding of stock markets and various investments (stocks, bonds, mutual funds). Students will use their knowledge of investments through participation in a virtual Stock Market Game where they compete against other Pennsylvania high schools. This course also examines major economic indicators, functions of the Federal Reserve Bank, monetary policy, and takes a look at the financial crisis of 2008. This course will meet daily for one semester.

566  PERSONAL FINANCE – Sophomores, Juniors, Seniors – 0.5 cr.
Required for students in the Accounting Program
Content – Understanding and managing personal finances are key to one’s financial success. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. This course will meet daily for one semester.

568  BUSINESS LAW & ETHICS – Sophomores, Juniors, Seniors – 0.5 credits
Required for students in the Accounting Program
Content - This course will provide you with a survey of the principle areas of business law. It will explore the relationship between business and the law with respect to the following topics: torts, crimes, intellectual property, contracts, negotiable instruments, agency, employment, and forms of business organization. You will also explore the relationship between business and the law with respect to ethics and social responsibility, government regulation, personal property, real property, and international trade. This course is a hybrid environment with online course materials and teacher led instruction.

572  WEB PAGE I – Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.
Content – This course will give students an opportunity to work with HTML5 coding to create web pages using Notepad++. Students will begin with a basic website structure and learn HTML tags and attributes, likes, images, and embedded style sheets. This course will meet daily for one semester.

574  DIGITAL GRAPHICS I – Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.
Content – This course is designed to give students an understanding of how to apply Photoshop to perform many different image-processing techniques. Adobe Photoshop
has become an industry standard for so many different disciplines including graphic design, digital photography, web design, digital video editing, and even creating animations. Adobe Photoshop is often a prerequisite for many other software programs and is the one program that everyone in every area of digital media should know. Students will produce and will be assessed on many projects as well as developing and critiquing portfolios. *This course will meet daily for one semester.*

578A GAME PROGRAMMING I - Freshmen, Sophomores, Juniors, Seniors -0.5 cr.
Prerequisites — Algebra I
*Required for students in the Management Information Systems Program*
Content - Emphasis will be placed on introductory programming skills based on 2D game programming utilizing the JavaScript language. Students will learn the basics of animation and interactive programs. *This class will meet daily for one semester.*

578B GAME PROGRAMMING II — Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.
Prerequisites—Successful completion of Game Programming I
*Required for students in the Management Information Systems Program*
Content—Emphasis will be placed on visualization and simulations using JAVAScript language. Students will make multi-score programs and 3D graphics. *This course will meet daily for one semester.*

**Note-- Game Programming I and Game Programming II must be scheduled together and taken in the same year.**

579A COMPUTER PROGRAMMING I (Python) — Sophomores, Juniors, Seniors - 0.5cr.
Prerequisites—Successful completion of Algebra I and it is recommended that you take Game Programming I and II prior to this course.
*Required for students in the Management Information Systems Program*
Content—This is an introductory programming course which is designed to help students learn both programming techniques and good problem solving skills. Students will become familiar with the programming language, Python, by writing interactive programs. Python is an object-oriented, high-level programming language that can be applied to many different classes of problems. *This course will meet daily for one semester.*

579B COMPUTER PROGRAMMING II (Python) — Sophomores, Juniors, Seniors - 0.5 cr.
Prerequisites—Successful completion of Computer Programming I
*Required for students in the Management Information Systems Program*
Content—This course is designed to give students more programming experience using Python. You will take what you learned in Computer Programming I and apply those skills to create more advanced programs and learn sophisticated strategies for manipulating text into your program. Several projects will be completed throughout the course. *This course will meet daily for one semester.*

**Note-- Programming I and Programming II must be scheduled together and taken in the same year.**
*582 AP COMPUTER SCIENCE PRINCIPLES – Sophomores, Juniors, Seniors - 1.5 cr. - Weighted 1.08
Prerequisite – Algebra I with at least a B Average, Application Required
Required for students in the Management Information Systems Program
Content – This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The focus of the course is to encourage students to apply creative processes when developing computational artifacts and to think creatively while using simulations to explore questions that interest them. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. In order to receive the weight for the course, students are required to take the AP Computer Science Principles exam.

586 SPORTS & ENTERTAINMENT MARKETING/MANAGEMENT - Juniors, Seniors – 0.5 cr.
Content – Using topics in the sports and entertainment industries, the text and multimedia supplements cover the basic functions of marketing as outlined in national and state standards. Topics discussed in this course include the four Ps of marketing, leadership, finance, product management, legal and ethical issues, customer relations, sales, managing change, and career development. This course will meet daily for one semester.

587 ENTREPRENEURSHIP – Sophomores, Juniors, Seniors – 0.5 cr.
Content - The course focuses on recognizing a business opportunity, starting a business based on the recognized opportunity, and operating and maintaining that business. Entrepreneurship is a natural fit for business education because entrepreneurship interfaces the functional areas of business-accounting, finance, marketing and management and the legal and economic environments in which a new venture operates. Students will be required to prepare a comprehensive business plan. This course will meet daily for one semester.

588 DIGITAL LITERACY w/IC3 CERTIFICATION - Sophomores, Juniors, Seniors – 1 cr.
Required of all students in the Accounting or Management Information Systems Program
Content - Students will learn the digital skills necessary to succeed in any environment that requires the use of computers, devices, or the Internet. Students will earn certification in the following areas:
- Computing Fundamentals—a foundational understanding of computing
- Living Online—skills for working in an Internet or networked environment
- Key Applications—covers popular word processing, spreadsheet and presentation applications and the common features of all applications
Students will also learn the foundation of the various business communication formats, including letters, memos, electronic communication, written reports, oral presentations, and interpersonal communication. Other business items such as resumes, application letters, interviewing tips, and employment follow-up directions will be covered as well as using devices that are commonly found in business environments. Offered ODD years only.
589 BUSINESS INFORMATION SYSTEMS – Junior, Senior - 1 cr.  
Prerequisites: Students must successfully complete Game Programming I and II  
Co-requisite - Computer Programming I and II  
Required of all students in the Management Information Systems Program  
Content - In this course, you will explore various information and communication technologies and explain how information systems are used to solve problems and make better business decisions. Your assignments will culminate in a case-study portfolio that applies all course materials. Topics covered will include:  
- Database Concepts and Data Collection  
- Information Systems Development, Management and Ethics  
- Supply Chain Logistics  
- Computer Networks  
- Cloud Computing and Web 2.0  
- Information Systems Threat and Security  
- Data Backup  
This course is a hybrid environment with online course materials and teacher led instruction.

*591 OFFICE ASSISTANT WITH MOS CERTIFICATION(H) - Sophomores, Juniors, Seniors – 1 cr. - Weighted 1.04  
THIS COURSE WILL NOT BE OFFERED IN THE 2019-2020 SCHOOL YEAR  
Required for students in the Accounting or Management Information Systems Program  
Content – Students will have an opportunity to gain knowledge and skills in the Microsoft Office Suite (Word, PowerPoint, Excel and Access) and integration with Office 365. Students will master skills and competencies ranging from organizational skills to technical aptitude. Soft skills essential for today’s work-place will be addressed throughout the course. After successful completion, students will be required to take the MOS (Microsoft Office Specialist) exams in each of the software programs. MOS certification gives a professional edge by providing globally recognized industry endorsed evidence of skills mastery, demonstrating a person’s abilities and willingness to embrace new technologies. In order to receive the weight for the course, students are required to take the MOS Certification exams. Offered EVEN years only.

592/593/594 COOPERATIVE WORK EXPERIENCE – Seniors - 1 to 3 credits  
Prerequisite—Students will meet with co-op coordinator prior to scheduling and students/parents will complete necessary paperwork. Also, students must be in good academic standing.  
Content – This course(s) provides an opportunity for students to complete academic requirements by participating in an approved, supervised work or job shadowing experience during school hours. Students must fill out the required paperwork and each job placement must have the approval of the coordinator. Depending on the number of hours worked, those students who go out on work experience will continue to receive one, two, or three credits towards the required credits for graduation. The number of credits earned and grading will be based on the number of periods for which co-op is scheduled. Students and employers must agree to schedule students the required number of hours and days for the entire school year.
WORK EXPERIENCE – Seniors – 1 to 3 credits
Prerequisite—Students will meet with co-op coordinator prior to scheduling and students/parents will complete necessary paperwork. Also, students must be in good academic standing.
Content – This course(s) provides an opportunity for students to complete academic requirements by participating in an approved, supervised work or job shadowing experience during/after school hours. Students must fill out the required paperwork and each job placement must have the approval of the coordinator. Depending on the number of hours worked, those students who go out on work experience will continue to receive one, two, or three credits towards the required credits for graduation. The number of credits earned and grading will be based on the number of periods for which co-op is scheduled.

TECHNOLOGY ASSISTANT – Sophomores, Juniors, Seniors – 0.5 – 1 credit
Prerequisite – Application Required
Content – Students who become members of the student tech team will work with the IT department to help fellow students and faculty members with technology issues. Students will receive training in customer service, troubleshooting hardware, connecting to the network, navigating Office 365 and learning to use our foundational apps. Students should have a sincere interest in using technology and a willingness to learn. This course will be graded on a Pass/Fail basis and is not included in GPA calculations.

PRACTICAL ARTS

BASIC FOODS AND NUTRITION - Freshmen, Sophomores, Juniors – 0.5 cr.
Content – Basic Foods and Nutrition is a “Boot Camp” of cooking. It is a course designed to offer students practical experience in making healthy food choices, using proper sanitation procedures, preparing quick and easy foods, and exploring jobs in the food industry. Teamwork, following directions, and problem solving are important elements of the class. The second part of this course is designed to help students understand the diverse culture of the United States and the world. The study will begin with the migration of ethnic groups to the United States and how the food customs and culture they brought with them has affected the different regions of our country. Then, the focus will shift to the food customs and culture of our global neighbors.

PEER TUTORING – Seniors - 1cr.
Prerequisite- Application & Interview Required
Content- Peer tutoring is a course in which general education students are able to become more aware of various disabilities, learn to advocate for people with disabilities, and interact with the students in the Small Group Classroom. Peer tutors will be responsible for providing assistance to students with disabilities in their elective classes. As a peer tutor, students will be taught how to instruct students with disabilities in various settings and activities. It would also provide course content, through independent study, in the following areas: diversity awareness relevant to disabilities, knowledge of disability categories, information regarding modifications and accommodations, typical learning styles and skills development, inclusive practices,
accessibility issues, and special education policies and procedures. This course is a special and unique experience that you will always remember. You will make friendships that will last a lifetime.

640 EXPLORING WOOD - Freshmen, Sophomores, Juniors, Seniors - 0.5 cr.
Content – This course will introduce the student to basic woodworking terminology, print-reading skills, and manufacturing techniques with an emphasis on safety and accuracy. Basic computer manufacturing principles will be discussed. Projects will be assigned and are mandatory for all students. Students must purchase their own safety glasses and pay for their projects; costs based on the current market price per board foot.

641 WOOD TECHNOLOGY I - Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Exploring Wood.
Content – This course applies the introductory knowledge and skills learned to make individual and comparatively easy projects. Students will utilize the computerized manufacturing equipment to complete one project. There are three projects required, and students must choose their projects from Woodsmith Magazine. Students must purchase their own safety glasses, must pay for materials used, exhibit skill and craftsmanship in their work, and follow accepted safety practices.

642 WOOD TECHNOLOGY II – Juniors, Seniors - 1 cr.
Prerequisite — Wood Technology I.
Content – This course applies the advanced knowledge and skills learned to make individual and detailed projects. Students will utilize the computer manufacturing equipment to complete one project. There are five projects required, and students must choose their projects from Woodsmith Magazine. Students must purchase their own safety glasses, must pay for materials used, exhibit skill and craftsmanship in their work, and follow accepted safety practices.

644 INDEPENDENT RESEARCH/WOODWORKING - Seniors - 0.5 - 1 cr.
Content – This course provides students the opportunity to be involved in an in-depth study of a special interest in woodworking or to complete work begun in another course. Students must pay for materials used and exhibit skill and craftsmanship in their work, follow accepted safety practices, and work on at least one project that makes full use of them.

645 INTRODUCTION TO ENGINEERING – Freshmen, Sophomores, Juniors, Seniors – 1cr.
Content – This a hands on theory class that covers the topics of electronics, civil engineering, and community build, design, and problem solving. Students will build and test circuits; design, build, and test bridges; and design and build a mechanical boulevard prop. Each student will be required to use basic tools and construction techniques.

646 MECHANICAL DRAWING - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content – This course is designed to help students learn to visualize in three dimensions, to develop and strengthen their technical imagination, to think precisely, to read and write the language of the industries, to understand the concepts of Computer-Aided
Drafting and Design and related technology, and to gain experience in completing working drawings according to modern commercial practice. This course provides a basic study of the theory of shape description.

647 COMPUTER-AIDED DRAFTING AND DESIGN - Sophomores, Juniors, Seniors - 1 cr. Prerequisite – Mechanical Drawing. Content – This course is designed to instruct students in the use of CADD to accomplish complex drafting techniques and principles utilizing AutoCAD software. It examines multi-view drawings, layers, dimensioning, blocks, attributes, sectional views, and hatching techniques.

648 ARCHITECTURAL DRAFTING – Juniors, Seniors - 1 cr. Prerequisite — Computer-Aided Drafting and Design. Content – An advanced drafting course, this class will encompass many of the drawings necessary to design and build a house, beginning with a room by room basis. The house designed will be the student’s own, within certain size limitations, for paper and time restraints. Drawings will include Floor Plans, Elevations, and Plot Plans. Students will also learn to use many of the common Architectural Scales to measure and create drawings. Lastly, students will learn how to use Revit an Autodesk Architectural CADD program.

*659 ADVANCED COMPUTER AIDED DRAFTING (H) - Seniors - 1 cr. - Weighted 1.04 Prerequisite — CADD, Application required. Content – This course will utilize Autodesk Inventor software. Students will learn many commands utilized in 3D modeling. Throughout this course, material covered will include modeling, analyzing, and animating in 3-Dimensional space. Students may also take advantage of any CNC machines or 3D printers located in our Lab. This course is dedicated to prepare students to work in machining, engineering, or any mass prototyping field.

*660 STEM CADD – Juniors, Seniors – 1.5 cr. - Weighted 1.04 Content - This course is designed to streamline 2D and 3D CAD techniques for students who are equipped to handle a rigorous workload. This course will instruct students in the use of CAD to accomplish complex drafting techniques and principles utilizing the latest in AutoCAD software. During the first half of the year, students will examine and draw multi-view drawings, use layers, dimensioning, blocks, sectional views and hatching techniques. During the second half, students will learn basic 3D modeling using Autodesk Inventor. In culmination, students will learn how to assemble and constrain objects into assemblies. Motion analysis and stress analysis will be implemented if time is available.

FINE ARTS

702 ART I – Freshmen, Sophomores, Juniors, Seniors - 1 cr. Content – This course will provide creative experience with a wide variety of drawing, painting, printmaking, sculpture, and craft mediums while examining their use in historical and contemporary contexts.
703 ART II – Sophomores, Juniors, Seniors - 1 cr.
Prerequisite — Art I
Content – The first semester of this course will emphasize individual problem solving in applying the elements and principles of visual design to complete specific design projects. The second semester will emphasize drawing from both observation and personal imagination with a focus on the medium of the student’s choice.

704 ART III – Juniors, Seniors - 1 cr.
Prerequisite - Art I and II
Content – This course will expose students to a variety of experiences designed to orient them to the particular issues and concerns of the professional artist and designer. Emphasis is still on individual problem solving, but consideration will be toward the artist as a function of society.

721 MEN’S CHORUS - Freshmen, Sophomore, Junior, Senior Men - 1 cr.
Content – This course is designed to develop the skill and technique necessary for good singing. Students learn to sing in unison, two-part, three-part, and four-part male harmony. Music materials are representative of different backgrounds: popular, folk, classical, patriotic, and modern music will be included. Periodic concerts are held in an effort to attain the highest degree of proficiency possible.

731 WOMEN’S CHORUS - Freshmen, Sophomore, Junior, Senior Women - 1 cr.
Content – This course is designed to develop vocal skills in sight reading, diction, phrasing, intonation, and rhythmic response. Music materials are selected from the classic, sacred, and secular compositions and contemporary music including popular and Broadway musicals. Periodic concerts are held in an effort to attain the highest degree of proficiency possible.

741 MUSIC THEORY I - Sophomores, Juniors, Seniors - 1 cr.
Content – The course is designed to give the student an understanding of music structure and the techniques used in music analysis and music composition. Student development will be enhanced through individualized study and project development in the computer lab.

*743 AP MUSIC THEORY – Juniors, Seniors – 1 cr. – Weighted 1.08
Prerequisites – Music Theory I or permission of the instructor, Application Required
Content - AP Music Theory seeks to develop the student’s ability to visually and aurally deconstruct, analyze, and synthesize theoretical concepts that underlie musical works from a wide variety of styles and time periods. While the primary focus of the course is on music of the Common Practice period (1650 – 1800), students will also analyze and create music of contemporary styles using modern terminology and music technology. The AP Music Theory course intends to enrich the student’s understanding of fundamental concepts and compositional techniques through an integrated instructional approach including analysis (with and without aural stimulus), compositional activities, ear training fundamentals, sight singing, and the taking of melodic and harmonic dictation. In order to receive the weight for the course, students are required to take the AP Music Theory exam.
751 MUSIC APPRECIATION – Freshmen - 0.25 cr.
Content – This course is designed to acquaint the student with various styles and types of music ranging from the early periods of music to the contemporary. Attention will be given to American music including jazz, rock n’ roll, and the Broadway musical. Emphasis will be placed on activating the students’ perception of music through active listening. *This course will meet daily for one marking period as part of the Freshman Foundations courses.*

771 BAND - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Prerequisite - Student membership is selected through audition.
Content – This course places emphasis upon musicianship, musical disciplines, and precise execution, both on and off the concert stage. Periodic concerts are held in an effort to attain the highest degree of proficiency possible.

775 STRING ORCHESTRA - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Prerequisite - Student membership is selected through audition.
Content – This course places emphasis upon musicianship, musical disciplines, and precise execution, both on and off the concert stage. Periodic concerts are held in an effort to attain the highest degree of proficiency possible.

776 BAND/STRING ORCHESTRA - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Prerequisite - Student membership is selected through audition.
Content – This course places emphasis upon musicianship, musical disciplines, and precise execution, both on and off the concert stage. Periodic concerts are held in an effort to attain the highest degree of proficiency possible. *This course should be selected by students who want to participate in band and string orchestra.*

777 SWING CHOIR – Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Prerequisite - Student membership is selected through audition.
Content – Students will develop skills in all aspects of choral singing as well as choreography, staging, set design, costumes, makeup, sound, and lighting technology.

779 PERCUSSION ENSEMBLE – Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.
Content- Students will learn about the various forms of drums and mallet instruments. Emphasis will be placed on learning how to read notes and rhythms, as well as playing with the correct technique. Concerts are held 3 times a year in which the entire class will perform the selected repertoire.

780 FUNCTIONAL PIANO - Freshmen, Sophomores, Juniors, Seniors - 0.5 cr. (Course meets every other day for the entire year.)
Prerequisite - Student membership is selected through audition.
Content – This course places emphasis on performance technique and the reading of one through four-part musical notation. Instruction will consist of group performance and individualized instruction in the computer lab.
790 DRAMA AND THEATER PRODUCTION - Freshmen, Sophomores, Juniors, Seniors - 1 cr.
Content- This course will cover both the acting and technical aspects of theater production. Students will learn acting techniques, script writing, costuming, set design, sound production, and technical lighting. The fall semester will include a straight play production, while the spring semester will focus on assisting the production of the school musical.

HEALTH/PHYSICAL EDUCATION

808 HEALTH/SAFETY EDUCATION – Freshmen - 0.25 cr.
Content – This course is concerned with human life and stimuli conducive or detrimental to the total welfare of the individual. Students receive concentrated work in human physiology, anatomy, and other health sciences designed to promote acquisition of proper concepts in regard to personal, family, and community health. This course will meet daily for one marking period as part of the Freshman Foundations courses.

809 PHYSICAL EDUCATION - Freshmen - 0.25 cr.
Content – This course provides instruction in individual fitness and team activities. Games, drills, calisthenics, weight lifting, dance, and other recreational activities are included in the curriculum. Students are brought together for co-educational games, dances, and classes. This course will meet daily for one marking period as part of the Freshman Foundations courses.

811 PHYSICAL EDUCATION – Sophomores, Juniors, Seniors - 0.5 cr.
Content – This course provides instruction in individual fitness and team activities. Games, drills, calisthenics, weight lifting, dance, and other recreational activities are included in the curriculum. Students are brought together for co-educational games, dances, and classes.

812 PHYSICAL EDUCATION – Sophomores, Juniors - 0.25 to 0.5 cr.
For each athletic season a student completes he/she will be awarded 0.25 credits up to 0.5 credit maximum. The 0.5 credit earned will allow the student to opt out of the student’s second required physical education course. This will be graded on a Pass/Fail basis and is not included in GPA calculations.

816 FITNESS FOR LIFE – Sophomores, Juniors, Seniors – 1 cr.
Content - It is important to take charge of your life and have healthy lifestyle goals. This will allow you to take responsibility for your own personal well-being. This course will examine ways to take a proactive and preventative approach to ideal levels of physical, emotional, and social functions. It will prepare you for life after Berwick as you move through the stages of maturity and the health related issues that come with it. It will include nutrition and fitness concepts, first aid and safety.

817 CONDITIONING (After School) – Juniors, Seniors - 0.5 cr.
Content – Students will learn the technique of lifting for athletics as well as life fitness. Also, running and stretching methods will be presented. All aspects of wellness are covered in this course. This course will be held in the Senior High School fitness center.
It satisfies the physical education requirement of 0.5 credits towards graduation. Because this elective is offered outside the normal school day, poor attendance or a lack of cooperation on the part of the student will result in that student being removed from the elective and placed into a regular physical education class. Any after-school class missed can only be made up in an after-school time period or credit will be lost. *Note: This elective is offered every other day from 2:55PM – 3:35PM.

822 PERSONAL NUTRITION - Sophomores, Juniors, Seniors - 1 cr.
Content – This course will focus on how carbohydrates, proteins, and fats, amino acids, vitamins, minerals, and water affect our bodies. Diets, weight control, food technology and reading nutrition labels will be covered. This is not a physical education course that can be substituted for course 809 or 811.

CRIMINAL JUSTICE

CJ101 INTRODUCTION TO CRIMINAL JUSTICE - Sophomores, Juniors, Seniors – 1 cr.
Required of all students in the Criminal Justice Program
Content – This course will provide the student with an introduction to formal institutions of social control, “The Criminal Justice System” and will closely examine the three major components of the criminal justice process: the police, the courts, and the various forms of corrections and rehabilitation along with the history and role of each component. Additionally, the course will address crime in America as well as special criminal justice issues such as juvenile justice, drugs and crime, and multi-national criminal justice systems in addition to discussing the future of criminal justice.

CJ103 CRIMINAL LAW - Sophomores, Juniors, Seniors – 1 cr.
Required of all students in the Criminal Justice Program
Content – This course includes a study of the laws, both criminal and civil law enforcement officials deal with on a daily basis. This includes study and understanding of defined requirements constituting the commission of a criminal act. An examination of the fundamental nature of law, its contemporary role and functions, and its evolving changes in today’s complex society will be presented. Insights into the relevance of today’s laws as they relate to various social issues and refer to the legal perspectives of other jurisdictions will be presented. Additionally, related legal terms and concepts including but not limited to criminal liability, inchoate crimes, defenses, excuses, property crimes as well as personal crimes and offenses against public morality and the Administration of Justice, the victims of crimes, punishment, and sentencing will be presented.

CJ105 CORRECTIONS – Sophomores, Juniors, Seniors – 1 cr.
Required of all students in the Criminal Justice Program
Content – This course covers the concepts of corrections in the United States. Students will be exposed to the history and components of the corrections system. Students will learn about the different stages of corrections and the challenges and skills needed to work in a prison.