

# BERWICK, PENNSYLVANIA 18603

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## ADMINISTRATION

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Mrs. Kate Warhurst, Assistant Principal

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.

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

# SCHOOL COUNSELING DEPARTMENT

Students are assigned to counselors as follows:

9<sup>th</sup> Grade & Cyber Students - Mrs. Jen Hestor

10<sup>th</sup> Grade & 11<sup>th</sup> & 12<sup>th</sup> Non-College Bound - Ms. April Zluchowski

11<sup>th</sup> & 12<sup>th</sup> 4 year 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

A 93 and above      B 85-92      C 77-84      D 70-76      F Below 70

A weighted grading system is used across the curriculum.

All courses offered at BHS are classified into three weight categories.

Advanced Placement/STEM – 1.08

Dual Enrollment/Honors – 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 incomplete 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 incomplete or failed courses are eligible for the Honor Roll.

## 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

It is important that the student and parents carefully select a program of study that is best suited to the student's 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.

## 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 available to any student earning a final core course average of 60 - 69. Check with the BHS school counseling office for summer school fees and scheduling.

## ADVANCED COURSES AND SPECIAL PROGRAMS

### 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>.

## 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, 2 Math (AP Calculus AB, AP Calculus BC, or AP Statistics), 2 Sciences (AP Biology, AP Chemistry, AP Mechanics, AP E & M) + 2 electives

BHS STEM Program elective courses: any 3rd AP Math or Science not used as a required course, 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.

## **DUAL CREDIT PROGRAM**

Through the Dual Credit program students attend a local college or university 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.

### **LCCC/LACKAWANNA COLLEGE DUAL ENROLLMENT PROGRAM**

Juniors and seniors who enroll in identified Berwick High School courses and register for the course through LCCC or Lackawanna College will be eligible to earn college credit upon successful completion of the course. All costs associated with the courses are the responsibility of the student.

## **CAREER & TECHNICAL EDUCATION (CTE) PROGRAMS**

Berwick High School (BHS) offers career and technical education in order to prepare students for careers in technical fields for employment opportunities or future education. BHS has CTE programs in the following areas: Accounting, Criminal Justice, Management Information Systems, Multimedia Technology, and Sports Medicine. State approval is pending for two additional programs: Diversified Occupations and Education. Each of these programs consists of a series of courses a student enrolls in over the course of their high school career. Criminal Justice is a three-year sequence which a student begins in the sophomore year. All other programs are offered as two-year sequences beginning in a student's junior year. Diversified Occupations is a senior year only program.

These career and 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 any of these CTE 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 and 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 education. BHS works closely with a wide variety of local employers and businesses to provide students with these opportunities.

## **WORK EXPERIENCE/DIVERSIFIED OCCUPATIONS**

Work Experience provides seniors the opportunity to develop skills 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 work experience. 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 work experience coordinator is essential for success. Work experience students are expected to maintain an acceptable passing average in their academic classes 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 work experiences.

### **Transition to Work Community Training Program**

Our Transition to Work Training Program is a part of students' Instructional Plans. Students learn skills in order to become productive members of their community. The Work Experience Program provides students with an introduction to basic work ethic skills that they can master independently over a period of time. Students in this program apply what they have learned in the classroom either at a worksite location, in the community, or in an in-school setting. The goal of the Work Experience Program is to increase a student's skills for independent working which will increase the chances of him or her finding meaningful employment after graduation. This is an Unpaid Job placement, which is part of the student's Individual Education Plan (IEP). Students who successfully complete the program may be eligible to receive 1-3 high school credits. Prior student absences, tardiness, grades, and other related information will be checked before students are approved to schedule work experience.

# 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.

<b>Courses</b>	<b>Subject</b>
4	English
4	Mathematics*
4	Science*
3	Social Studies
2	Physical Education
1	Health
1	Foundations of Career Readiness
1	Music Appreciation
1	Practical Math
Graduation Project	
Complete Keystone Exams/Act 158 Requirements	
25 Total Credits	

\*Computer Science I, Computer Science II, or AP Computer Science Principles may be substituted as a 4th mathematics OR science course.

## GRADUATION PROJECT

Students are required to document thirty (30) hours of community service/job shadowing beginning in the freshman year. Through the senior English course, students will develop a Google Slides presentation based on future plans including career and college. In November of senior year students will complete an oral presentation and interview about their experiences. The documented thirty hours 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.

## KEYSTONE EXAMS/Act 158

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. For federal accountability purposes, students must participate in the Algebra, Biology, and Literature Keystone Exams. In addition, through Act 158 of 2018 and Act 6 of 2017, students graduating from a Pennsylvania public high school in 2023 or later will have the flexibility to meet statewide high school graduation requirements through one of five pathways that fully illustrate their college, career, and community readiness.

**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.

This course is designed to provide the 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. Writing assignments will focus on the writing process. Students will continue to acquire grammar skills and broaden their vocabularies.

\*015 INTEGRATED ENGLISH (H) - Freshmen - 1.5 cr.- Weighted 1.04

*Application required*

This course focuses on critical reading, analytical writing, and language skills with immediate relevance for students' current and future work both inside and outside of the classroom. This Pre-AP classroom trains the reader to observe textual details to arrive at a deeper understanding of the whole. It also trains the writer to focus on crafting essays that facilitate and demonstrate complex thinking. Reading selections allow students to examine various genres and to appreciate authors' choices while developing a greater awareness of how words produce effects and how the conventions of the English language are utilized for both precision and style. Summer reading is required.

020/021 WORLD LITERATURE - Sophomores - 1 cr.

This course explores the novel, short stories, essays, poetry, and drama from a variety of cultures. It reviews and continues to expand students' skills in speech, writing, vocabulary, grammar usage, and literature appreciation. The use of textual evidence through constructed responses is emphasized.

\*022 WORLD LITERATURE (H) - Sophomores- 1 cr. - *Weighted 1.04*

*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.

This course includes an overview of American literature as it reflects American history and includes studies of American novels, short stories, essays, and poetry. Reading and writing strategies are reviewed through composition as well as literature and language study.

\*032 ENGLISH 11 (H) - Juniors - 1 cr. - *Weighted 1.04*

*Application required*

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.

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.

This course focuses on the 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, integration of quoted material, and analysis will be highlighted.



\*042 COLLEGE WRITING (H) - Seniors - 1 cr. – Weighted 1.04

*Application required*

This course presents 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. *Dual Credit option provided through Lackawanna College.*

\*043 AP ENGLISH LANGUAGE AND COMPOSITION -Sophomores, Juniors, Seniors - 1.5 cr. - Weighted 1.08

*Application required*

This course is designed to accommodate the exceptional language arts student. It fulfills the eleventh-grade communications graduation requirement. AP Language and Composition 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 writing content will focus upon expository, analytical, and argumentative essays. Students are required to complete summer reading designated by the instructor and 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

*Application required*

This course is designed to accommodate the exceptional student of Language Arts. This is a college level course which prepares 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.

\*057 AP SEMINAR – Juniors – 1 cr. – Weighted 1.08

*Prerequisites:* 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:* 1. Students will conduct a separate individual research project and 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.

This course is designed to improve communications skills in scientific and career contexts - particularly through oral multimedia presentations, improving research skills, writing reports and arguments in APA format, and communicating data effectively. More information on AP Seminar course can be found at <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. Student 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.

This course is designed to extend 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 can be found at <https://apstudent.collegeboard.org/apcourse/ap-research>

070 INTRODUCTION TO MULTIMEDIA TECHNOLOGY - Juniors, Seniors - 1 cr.

*Multimedia Technology CTE Year 1*

This course provides students with instruction regarding the evolution of multimedia technology, adaptation of industry trends, and fundamental knowledge of media law. Included in the content is the building of skills in media production with project-based learning opportunities. Students will receive foundational skills in color theory, publishing layout, photography, audio and video production, and writing for the media. Additionally, students will learn background information regarding safety issues and hazard identification in various fields of multimedia technology.

075 PUBLICATIONS I - Juniors, Seniors - 1 cr.

*Multimedia Technology CTE Year 1*

In Publications, students learn multiple skills of producing printed works, such as yearbooks, newspapers, and magazines. Additionally, students will have the opportunity to create digital publications to practice skills studied, which include writing, layout design, photography, proofing, and project management.

076 PUBLICATIONS II - Seniors - 1 cr.

Prerequisite - Publications I or teacher approval

*Multimedia Technology CTE Year 2*

This course provides students with hands-on experience in publications that are conceived, planned, and produced by students under advisement of and with direction from faculty. The possible products include, but are not limited to, the school yearbook, literary magazines, and public relations materials. Additionally, students will have the opportunity to create digital publications.

077 NEWS WRITING & REPORTING - Freshmen, Sophomores, Juniors, Seniors - 1 cr.

This course provides an introduction to writing news articles for print and electronic media. The course aims to evaluate the newsworthiness of information and events and to develop writing in the journalistic style.

079 VIDEO PRODUCTION – Freshmen, Sophomores, Juniors, Seniors - 1 cr.

This course is designed to teach the basic production and editing techniques of cinematography. The course immerses students in a technological environment of both live and recorded performances. Students will explore video production through hands-on experience.

080 TELEVISION PRODUCTION – Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite–Video Production*

This course allows students to explore the basic principles, procedures, and techniques of television production. Students will work on all aspects of production including: script writing, directing, producing, staging, announcing, and editing.

081 STORYTELLING CONCEPTS - Seniors - 1 cr.

*Multimedia Technology CTE Year 2*

Prerequisite - Publications I or teacher approval

Students will learn advanced writing techniques for various media, including opportunities to create public service announcements, podcasts, and mini-documentaries. Students will utilize audio, video, and editing equipment in the school setting as well as have access to facilities provided by community partners.

082 SENIOR EXHIBITION in MULTIMEDIA TECHNOLOGY - Seniors - 1 cr.

*Multimedia Technology CTE Year 2; Only students in the MT CTE Program may enroll*

This course will culminate in the creation of several projects, products, and presentations in order for students to display their knowledge of communication practices, project management, and multimedia creation. The potential products include, but are not limited to: creating and publishing web content, designing advertising and marketing materials for businesses and nonprofit organizations, and creating a self-marketing portfolio.

085 SPORTS WRITING & LITERATURE - Sophomores, Juniors, Seniors- 0.5 cr.

This course examines the impact and value of sports and athletes in America. Students will examine and discuss social, political, and mental issues faced by athletes. Written assignments include creative writing, reader responses, and opinion pieces. Materials include short stories, films, articles, editorials, and video clips.

097 EFFECTIVE SPEAKING - Juniors, Seniors- 1 cr.

This course focuses on the basic principles of effective speaking and presents an overview of the types of speeches required at the collegiate level. Assignments will emphasize the importance of organization, effective source use, idea development, and delivery skills. Students will deliver multiple presentations throughout the course in a variety of modes. Audience participation and support is also expected. *Dual Credit option provided through LCCC.*

099 JOURNALISM ASSISTANT – Seniors – 1 cr.

Prerequisite – Approval by instructor

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 - Freshmen - 1 cr.

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.

\*108 AMERICAN HISTORY (H) - Freshmen - 1 cr.

*Application required*

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.

\*117 AP US HISTORY – Sophomores - 1.5 cr. - *Weighted 1.08*

*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 – Sophomores - 1 cr.

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.

\*123 WORLD HISTORY (H) - Sophomores - 1 cr. - *Weighted 1.04*

*Application required*

This course is designed to be an in-depth analysis of the historical periods of the Reformation Enlightenment, French Revolution, Napoleonic Era, Age of Revolutions, nationalism, liberalism, militarism, colonialism, and World War I, and their effects on the twentieth century.

130/131 AMERICAN CIVICS and GOVERNMENT – Juniors – 1 cr.

American Civics will provide a comprehensive background for the understanding of United States citizenship and the foundations and operation of the 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.

\*133 AMERICAN CIVICS and GOVERNMENT (H) – Juniors – 1 cr.

*Application required*

American Civics and Government Honors curriculum is designed as an introductory college course. The course is structured around five major topics: Foundations of American Democracy; Interactions among Branches of Government; Civil Liberties and Civil Rights; American Political Ideologies and Beliefs; and Political Participation. Students will analyze primary and secondary sources, examine and interpret landmark Supreme Court cases, and research current political events, in order to fully comprehend the dynamics of our robust political system.

\*132 AP US GOVERNMENT AND POLITICS– Juniors - 1.5 cr. - *Weighted 1.08*

*Application required*

This college level course is designed for students to demonstrate an analytical perspective on government and politics in the United States. The course is structured around five major topics: Foundations of American Democracy; Interactions among Branches of Government; Civil Liberties and Civil Rights; American Political Ideologies and Beliefs; and Political Participation. 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*

*Application required*

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. In order to receive the weight for the course, students are required to participate in the AP Psychology exam. *Dual Credit option provided through Lackawanna College*

148 HUMAN GEOGRAPHY - Freshman, Sophomores - 0.5 cr.

This curriculum is designed as an introductory course. The course is structured around seven major topics: Geography: Its Nature and Perspectives; Population; Cultural Patterns and Processes; Political Organization of Space; Agricultural and Rural Land Use; Industrialization and Economic Development; and Cities and Urban Land Use. Students will analyze case studies and develop their critical and analytical skills by interpreting data, charts, population distributions, and geographic patterns and models.

150 ANTHROPOLOGY – Juniors, Seniors - 0.5 cr.

This course presents to the anthropology student an overview of his physical and cultural development through archaeology, linguistics, ethnography, and ethnology. In minority cultures, the student will be presented with an in-depth study of the various ethnic minority groups in the United States and their historical significance.

154 PSYCHOLOGY – Juniors, Seniors - 1 cr.

*Education CTE Year 1*

This course in psychology focuses on the development of personality, intelligence, thinking, and human growth and development.

165 SOCIAL PROBLEMS – Sophomores, Juniors, Seniors – 0.5 cr.

Students will become aware of the challenges faced by social groups, as well as learn about the complex relationship among societies, governments and the individual. Each unit is focused on a particular area of concern, often within a global context. Units also focus on particular social problems, including racial discrimination, drug abuse, the loss of community, and urban sprawl, and discuss possible solutions at both individual and structural levels. Students will not only learn more about how social problems affect them personally, but begin to develop the skills necessary to help make a difference in their own lives and communities—not to mention globally.

170 CONTEMPORARY WORLD PROBLEMS - Sophomores, Juniors, Seniors – 0.5 cr.

This course will focus on introducing students to a variety of social, political, economic, and cultural issues that both the United States and global community are facing within the 21st century. Possible areas of focus will include, but not limited to, human rights, economic systems, world health issues, environmental issues, poverty; beliefs, goals, and methods of how nations deal with conflicts and how cooperation exists with global concerns.

## WORLD LANGUAGES

241 SPANISH I - Freshmen, Sophomores, Juniors, Seniors - 1 cr.

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*

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*

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*

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.

281 JAPANESE I – Freshmen, Sophomores, Juniors, Seniors – 1 cr.

This introductory course in Japanese language provides basic communication skills in Japanese. This course is designed for high school level students who have no prior experience in the Japanese language and are interested in learning basic Japanese 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*

Continuation of the skills learned in Japanese 1 with an emphasis on advanced grammar and vocabulary. Students must have previous competency in the Japanese language. Students are expected to read and write the basic Japanese characters (Hiragana and Katakana). All four language skills of listening, speaking, reading, and writing will be covered. The students will continue learning Japanese culture through hands-on activities as well.

285 JAPANESE III – Juniors, Seniors – 1 cr.

*Prerequisite – Japanese II*

This course is a continuation of Japanese 2. In this course, listening and speaking skills continue to be refined, while reading and writing skills are more strongly emphasized than previous Japanese courses. The study of complex grammar and various verb tenses gains emphasis. Through various spoken and/or written activities, the students will increase their linguistic and cultural knowledge as well as their communication skills. Approximately 40 Kanji characters will be introduced in the course. The students will continue learning Japanese culture through hands-on activities as well.

\*287 JAPANESE IV (H) – Seniors – 1 cr.

*Prerequisite – Japanese III*

This course is a continuation of Japanese 3. Students must have previous competency in Japanese language. The study of complex grammar and various verb tenses gains emphasis. Through various spoken and/or written activities, the students will increase their linguistic and cultural knowledge as well as communication skills. Approximately 80 Kanji characters will be introduced in the course. The students will continue learning Japanese culture through hands-on activities as well.

## MATHEMATICS

315/321 ALGEBRA 1 – Freshmen - 1 cr.

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. Students will take the Keystone Exam at the end of this course.

323 KEYSTONE ALGEBRA - Freshmen, Sophomores, Juniors - 0.5 credit

This class is for students who have passed Algebra I but have not scored Proficient or above on the Algebra 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. Students will participate in the Keystone Exam during the winter testing period.

330/332 PLANE GEOMETRY - Freshmen, Sophomores, Juniors - 1 cr.

*Prerequisite – Algebra I*

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 congruence 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 – Algebra I, Application Required*

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.

340 ALGEBRA 2 – Sophomores, Juniors – 1 cr.

*Prerequisite – Algebra I*

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 2 (H) – Freshmen, Sophomores - 1 cr. – Weighted 1.04

*Prerequisite — Algebra I, Application required*

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 ONLY – 1 cr.

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?”

344 PRACTICAL MATH – Sophomores, Juniors, Seniors – 0.5 cr.

This course will entail using practical math in everyday living situations. Topics will include: percentages, sales and sales tax, banking, credit cards, loans, and buying a car. Projects to include household budgets and home makeovers. Basic math operations will be put to practical use.

345 STATISTICS/PROBABILITY - Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite – Algebra II*

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. *Dual Credit option provided through Lackawanna College.*

350 INTRODUCTION TO COLLEGE MATH – Juniors, Seniors - 1 cr.

*Prerequisite - Algebra II*

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*

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*

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 – 1.5 cr. – *Weighted 1.08*

*Prerequisite – Algebra II, Application Required*

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. *Dual Credit option provided through Lackawanna College.*

360 CALCULUS – Juniors, Seniors - 1 cr.

*Prerequisite - Advanced Math*

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*

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. *Dual Credit option provided through Lackawanna College.*

\*380 AP CALCULUS BC – Seniors - 1 cr. - *Weighted 1.08*

*Prerequisite - AP Calculus AB, Application Required*

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 second semester sequence. Students are required to take the AP exam at the end of the course.

## SCIENCE

404/405 ECOLOGY – Freshmen – 1 cr.

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*

*Application Required*

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*

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.

\*411 AP BIOLOGY – Juniors, Seniors - 1.5 cr. - *Weighted 1.08*

*Prerequisite - Biology I/Integrated Science (H), Chemistry I (may be taken concurrently) - Application Required*

Covers all 55 chapters contained in a college textbook 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



413 ENVIRONMENTAL SCIENCE - Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite or Corequisite - Chemistry I*

Environmental Science is a course that is designed to look at contemporary issues facing the environment. The course is an application of knowledge, skills and scientific processes to address those concerns. Environmental Scientists seek to understand the world around them, while using our environment in a sustainable way, to provide the same availability of resources and benefits to every human being while simultaneously preserving and/or improving the environment that we depend on. Students will be challenged to identify environmental issues, research those issues and their implications and then address those issues with models or prototypes designed by the student, based on their knowledge and understanding of the concept. This is a STEM based course in which students will be expected to learn and make decisions based on data they collect. Emphasis will be on independence, problem solving, critical thinking and action based on their learning.

\*415 ANATOMY & PHYSIOLOGY (H) - Juniors, Seniors - 1 cr. - Weighted 1.04

*Application Required*

Taught on an honors level, this course will help students to develop an understanding of the relationships between structures and functions of the human body. Topics include organization of the body from cells through organ systems, movement and maintenance of the body, and regulation of homeostasis via the nervous and endocrine systems. This course involves laboratory activities, dissections, projects and clinical studies.

417A SCIENCE IN THE COMMUNITY A - Sophomores, Juniors - 0.5 credit

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. Students will participate in the Keystone Biology Exam during the winter testing period.

417B SCIENCE IN THE COMMUNITY B - Juniors - 0.5 credit

This course will focus on practical aspects of physical science through experimentation. Students will research theory then test the theory and analyze data. Topics will include but not be limited to: electron properties, acids and bases, states of matter, and properties of solutions. Emphasis will be placed on recognizing how these topics are utilized in everyday life.

421/422 CHEMISTRY I – Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite - Biology I or Integrated Science (H)*

This course includes IUPAC nomenclature, chemical equations, gasses, 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, Juniors – 1.5 cr. - Weighted 1.04

*Prerequisite – Integrated Science (H), Application Required*

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, gasses, 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*

This course is designed as an entry-level college chemistry course. Topics covered include: gasses, 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 SCIENCE TECHNOLOGY – Juniors, Seniors - 1 cr.

*Prerequisite – Chemistry*

This course explains the physical universe in terms of basic interactions and simple particles. The focus of the course will be understanding concepts of physical science conceptually and mathematically. Topics to be covered include: motion, Newton's laws, energy, electricity, and properties of matter.

427 PHYSICS I – Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite – Chemistry I (may be taken concurrently with teacher recommendation)*

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 (H) (May be taken concurrently with instructor approval), Application required*

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. *Dual Credit option provided through Lackawanna College.*

\*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 I, Application required*

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*

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*

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.

440 CONSERVATION SCIENCE - Seniors - 1 cr.

*Prerequisites - Ecology, Biology, Chemistry*

This course offers an introduction to the science behind the North American Model of Wildlife Conservation and how it continues to save wildlife and their ecosystems. Topics include conservation, hunting, fishing, trapping, shooting sports, and boating.

## **BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY**

505 FOUNDATIONS OF CAREER READINESS – Freshmen - 0.25 cr.

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 – 0.5 cr.

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.

528 INTRO TO COMPUTER APPLICATIONS - Freshmen, Sophomores - 0.5 cr.

This course will introduce students to computer concepts used for problem-solving and productivity. Topics covered include the Microsoft Office suite and will utilize word processing, spreadsheets, databases and presentation software.

530 INTRO TO WEB DESIGN & GRAPHICS - Freshmen and Sophomores - 0.5 cr.

This course is intended to teach students the fundamentals of web development and graphic design in a project-based learning environment. Students are taught the basic elements of web design, file organization, the development process and incorporating and creating graphics using an image-editing software program.

545 ACCOUNTING I – Juniors, Seniors - 1 cr.

*Accounting CTE Year 1*

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. Computers are utilized for all accounting tasks.

547 ACCOUNTING II - Seniors - 1.5 cr.

*Accounting CTE Year 2*

*Prerequisite - Accounting I*

This course continues the investigation of the field of Accounting. Beginning with the completion of the accounting cycle and financial statements for the corporate business entity, the class then moves into a variety of advanced accounting topics. Topics covered include: financial statement/ratio analysis, departmental accounting, uncollectible accounts and account aging, promissory notes and accrued interest, fixed asset valuation and depreciation methods, inventory cost methods (FIFO, LIFO, WAC), and Corporate Accounting topics (common and preferred stock, dividends and treasury stock). Additionally, ethics in business, taxes and basic tax preparation, automated accounting software (Quickbooks), and forensic accounting will be explored. The collapse of Enron Corporation and the resulting legislative changes will also be examined.

560 FUNDAMENTALS OF INVESTING – Juniors, Seniors – 0.5 cr.

*Accounting CTE Year 2*

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.*

568 BUSINESS LAW & ETHICS - Juniors, Seniors – 0.5 credits

*Accounting CTE Year 1; Computer Applications CTE Year 1*

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.

572 WEB PAGE DESIGN – Juniors, Seniors – 0.5 cr

*Computer Applications CTE Year 1; Multimedia Technology CTE Year 1*

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, links, images, and embedded style sheets. Students will also be introduced to other web page development software programs including Google Sites. *This course will meet daily for one semester.*

574 DIGITAL GRAPHICS – Juniors, Seniors – 0.5 cr.

*Multimedia Technology CTE Year 1*

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.*

575 INTRODUCTION TO COMPUTER SCIENCE – Freshmen, Sophomores - 0.5 cr.

This introductory course is designed to give students a brief introduction to the field of computer science and the fundamentals of computer programming. This course is specifically designed for students with no prior programming experience and touches upon a variety of fundamental topics. This course exposes students to a variety of program languages to demonstrate those topics. Students are encouraged to take this class prior to Computer Science I.

578 COMPUTER SCIENCE I – Sophomores, Juniors, Senior -1 cr.

*Prerequisites - Algebra I or Algebra IB*

Students will learn the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem solving skills. Topics include number calculations, conditionals, loops, variables, graphics and functions. The language JavaScript will be utilized to develop programs. *This course can be used to fulfill a science or mathematics requirement.*

579 COMPUTER SCIENCE II – Juniors, Seniors -1 cr.

*Computer Applications CTE Year 1*

*Prerequisites - Successful completion of Computer Science I or permission of the instructor*

Content--Students will learn the basics of computer programming and computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. Topics include number calculations and data, loops, graphics, functions and arrays. Python language will be utilized to develop programs. *This course can be used to fulfill a science or mathematics requirement.*

\*582 AP COMPUTER SCIENCE PRINCIPLES – Juniors, Seniors - 1.5 cr. - *Weighted 1.08*

*Computer Applications CTE year 2*

*Prerequisite – Algebra I with at least a B Average, Application Required*

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. *This course can be used to fulfill a science or mathematics requirement.*

586 SPORTS & ENTERTAINMENT MARKETING/MANAGEMENT - Sophomores, Juniors, Seniors – 0.5 cr.

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 – Juniors, Seniors – 0.5 cr

*.Accounting CTE Year 1*

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.*

589 BUSINESS INFORMATION SYSTEMS – Juniors, Seniors - 0.5 cr.

*Computer Applications CTE Year 2*

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. Topics covered will include: Database Concepts and Data, Information Systems Development, Management and Ethics, Supply Chain Logistics, Computer Networks, Cloud Computing and Web 2.0, Information Systems Threat and Security, and Data Backup

590 WORK THEORY – Seniors – 1 cr.

*Diversified Occupations CTE*

Students will develop career skills in the following areas: employment acquisition and retention, human relations, health and safety, communications development, legal awareness and future planning. Students will also create resumes and cover letters, and work on interviewing skills. Students who intend to participate in the work experience program during their senior year should complete this course as a junior. This course will meet every other day for the full year.

\*591 OFFICE ASSISTANT WITH MOS CERTIFICATION I (H) - Juniors, Seniors - 1 cr.- *Weighted 1.04*

*Accounting CTE; Computer Applications CTE*

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.*

595/596/597 WORK EXPERIENCE – Seniors – 1 to 3 credits

*Corequisite - 590 Work Theory must be scheduled along with Work Experience.*

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.

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 work experience is scheduled. A Pass/Fail grade will be given this school year.

### 934 TRANSITION TO WORK Community Training Program

Our Transition Program is a part of students' Instructional Plans. Students learn skills in order to become productive members of their community. The Work Experience Program provides students with an introduction to basic work ethic skills that they can master independently over a period of time. Students in this program apply what they have learned in the classroom either at a worksite location, in the community, or in an in-school setting. The goal of the Work Experience Program is to increase a student's skills for independent working which will increase the chances of him or her finding meaningful employment after graduation. This is an *Unpaid Job placement*, which is part of the student's Individual Education Plan (IEP). Students who successfully complete the program may be eligible to receive 1-3 high school credits. Prior student absences, tardiness, grades, and other related information will be checked before students are approved to schedule work experience.

### 599 TECHNOLOGY ASSISTANT – Juniors, Seniors – 0.5/1 credit

Prerequisite – Application Required

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

### 601 BASIC FOODS AND NUTRITION - Freshmen, Sophomores, Juniors – 0.5 cr.

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. In this class, we will start from scratch (both literally and figuratively) in learning the basics of the kitchen. Cooking at least once a week after completion of safety units, students learn the fundamentals of the kitchen, while making informed decisions about what they eat.

### 607 TASTES OF CULTURE - Freshman, Sophomore, Junior, Senior - 0.5 credit

*Prerequisite - Basic Foods and Nutrition*

Tastes of Culture class explores the connections between what we eat and cultures around us. As we move around the globe, this course will cover the history and topography as it relates to each region's dietary customs, cuisines and cooking methods. By investigating cultural, spiritual and social influences on food choices, students gain an awareness and understanding of diverse populations within our society.

### \*630 PEER TUTORING – Seniors - 1cr.

*Prerequisite - Application & Interview Required*

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 INTRODUCTION TO THE TRADES - Freshmen, Sophomores, Juniors, Seniors - 0.5 cr.

This course will introduce students to basic trades, wood working, plumbing, and residential electrical. The class will focus on hands-on training, safety, theory, and basic procedure dealing with trades. Projects will be assigned and are mandatory for all students.

641 TRADES 1 - Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite — Intro to Trades*

This course applies the introductory knowledge and skills learned in Intro to Trades. It will focus on safety, theory, and procedure in the trade industry. Students will have hands-on experience in woodworking, residential plumbing and electrical trainers. Each student will build a minimum of two woodworking projects. The objective of this course is to give each student the overall fundamentals in trades to utilize in the field.

642 TRADES 2 – Juniors, Seniors - 1 cr.

*Prerequisite — Trades 1*

This course applies the knowledge and skills learned to make individual and detailed projects. Students will have to install and troubleshoot electrical and plumbing trainers to residential standards. Overall goal is to have each student meet the standards of residential trades dealing with carpentry, electrical, and plumbing.

644 INDEPENDENT RESEARCH/TRADES - Seniors - 0.5/1 cr.

*Prerequisite — Trades 2*

This course provides students the opportunity to be involved in an in-depth study of a special interest in woodworking and residential trades or to complete work begun in another course. Students will exhibit skill and craftsmanship in their work, follow accepted safety practices, and work on at least one project that applies to the trade industry.

645 INTRODUCTION TO ENGINEERING – Freshmen, Sophomores, Juniors, Seniors - 1cr.

This is a hands-on theory class that covers the topics of electronics, civil engineering, and community build. Students will use the design and problem-solving methods to complete projects. Students will build and test circuits, bridges, and solve various design and construction problems. Each student will be required to use basic tools and construction techniques.

646 MECHANICAL DRAWING - Freshmen, Sophomores, Juniors, Seniors - 1 cr.

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. Students will be introduced to the concepts of Computer-Aided Drafting and Design and related technology, and will gain experience 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*

This course is designed to instruct students in the use of CADD to accomplish complex drafting techniques and principles utilizing Autodesk CAD software. It examines multi-view drawings, layers, dimensioning, blocks, attributes, sectional views, and hatching techniques. Students will also be introduced to 3D printing and 3D modeling by using Autodesk Inventor software.

648 ARCHITECTURAL DRAFTING – Juniors, Seniors - 1 cr.

*Prerequisite — Computer-Aided Drafting and Design*

An advanced drafting course, this class will encompass many of the drawings necessary to design and build a house. The house designed will be the student's own creation, within established criteria. Students will use Revit, an Autodesk Architectural CADD software program to create a set of drawings that includes Floor Plans, Elevations, and Plot Plans. Lastly, students will construct a scaled model of their house design.

\*659 ADVANCED COMPUTER AIDED DRAFTING (H) - Juniors, Seniors - 1 cr. - *Weighted 1.04*

*Prerequisite — CADD, Application required*

This course will utilize Autodesk Inventor and CAD software. Students will take an in-depth look at 3D modeling. Throughout this course, material covered will include modeling, analyzing, and creating assembly models. Students will complete product design problems by creating prototypes of their solutions utilizing the 3D printers or Laser Engraver 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 1.08*

*Corequisite - Member of AP Capstone/STEM Program*

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 Autodesk CAD and Inventor software programs to accomplish complex drafting techniques. Students will examine and draw multi-view drawings, use layers, dimensioning, blocks, sectional views and hatching techniques along with 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. Students will be able to incorporate this class to aid in completion of their capstone project.

662 DRAFTING LAB ASSISTANT – Juniors, Seniors – 0.5/1 credit

Prerequisite – Application Required

Students who become a Drafting Lab Assistant will work in the Drafting Lab to help fellow students with drawing assignments. Students should have working knowledge in Mechanical Drawing and CAD. Students should have a sincere interest in technical drawing and a willingness to help other students become competent in their abilities. This course will be graded on a Pass/Fail basis and is not included in GPA calculations.

665 INDEPENDENT RESEARCH in CAD - Seniors - 0.5/1 cr.

Prerequisite – Application Required

This course provides students the opportunity to be involved in an in-depth study of a special interest in Technical Drawing, Product Design, creating Prototypes of research projects, or to become Autodesk Certified. Students must pay for specialty materials used and use a multi-discipline approach to problem solving.

## **FINE ARTS**

702 ART I – Freshmen, Sophomores, Juniors, Seniors - 1 cr.

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*

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*

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.

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.

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.

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.

751 MUSIC APPRECIATION – Freshmen - 0.25 cr.

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.

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.

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.

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 concert band and string orchestra.*

777 SWING CHOIR – Freshmen, Sophomores, Juniors, Seniors - 1 cr.

*Prerequisite - Student membership is selected through audition.*

Students will develop skills in all aspects of choral singing as well as choreography, staging, set design, costumes, makeup, sound, and lighting technology.

778 PERCUSSION ENSEMBLE – Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.

Students will learn about the various instruments throughout the percussion family. Emphasis will be placed on learning how to properly perform on these instruments, reading simple and complex rhythms, and learning the history behind the instruments and composers of the pieces that will be performed. Concerts are held 2 times a year in which the entire class will perform selected repertoire. *Course meets every other day for the entire year.*

780 CLASS PIANO I – Freshmen, Sophomores, Juniors, Seniors – 0.5 cr.

This course is designed for the student with no prior experience playing piano, but with great interest in learning the basics of music including (but not limited to) note names, staff, treble clef, bass clef, time signatures, and note values. Once there is an understanding of the basic musical concepts, students will work on keyboards with the intent of being able to perform a 3 minute piece by the end of the year. *Course meets every other day for the entire year.*

781 CLASS PIANO II – Sophomores, Juniors, Seniors – 0.5 cr.

*Prerequisites – Class Piano I or permission of the instructor, Application Required*

This course places emphasis on intermediate/advanced piano playing. Students will focus on developing their piano technique and fundamental skills through repertoire and sight-reading. This course will be a performance level course where students are expected to perform in front of the class at least twice a month. *Course meets every other day for the entire year.*

\*784 WIND ENSEMBLE (H) - Freshmen, Sophomores, Juniors, Seniors – 1 cr. - Weighted 1.04

*Prerequisites – At least 1 year of Band (Middle or High School) and a successful audition.*

Wind Ensemble is open to instrumentalists in grades 9 through 12 who want to further their study of instrumental music, and develop their personal musicianship through an extensive exposure to significant and new compositions in the wind band. Advanced literature, at the collegiate level will be studied and performed as well as an extensive

research project on a topic of the student's choice within the wind band medium. In addition to rehearsing solo and chamber compositions, all students must audition for District Band.

785 INDEPENDENT MUSIC STUDY- Juniors, Seniors - 0.5 - 1 cr.

*Prerequisite – Application Required*

This course provides students the opportunity to be involved in an in-depth study of Music. Students will have the opportunity to study special topics in music including rehearsal strategies, score study, conducting, music theory, music history, lesson planning, and practice techniques. This course is meant for students who have an interest in studying music in college.

## HEALTH/PHYSICAL EDUCATION

808 HEALTH/SAFETY EDUCATION – Freshmen - 0.25 cr.

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.

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.

This course provides instruction for individual and team activities. Units for Physical Education will include: cardiovascular endurance activities, strength and flexibility exercises, team sports with an emphasis on developing lifelong habits of good health, fitness, and wellness. The Wellness component will cover the individual as a whole, including mental/emotional, social, and physical well-being. CPR training will be a part of this course.

814 ATHLETIC CONDITIONING – Sophomores, Juniors, Seniors – 0.5 cr.

This course will give student-athletes the tools and resources needed to be physically fit and healthy for their particular sport. The class teaches the importance of proper warm-up and stretching as well as proper lifting technique with strength training principles. Students will become more familiar with exercises that can be used to maintain a healthy lifestyle as well as improve strength, conditioning, and skills that are applicable to a student-athletes' particular sport(s). CPR/AED training will be a part of this course.

816 FITNESS FOR LIFE – Sophomores, Juniors, Seniors – 1 cr.

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.

819 HEALTH SYSTEMS & PROFESSIONS - Juniors, Seniors - 0.5 credits

*Athletic Training CTE Year 1*

Health Systems and Professions is a comprehensive course designed to provide students with a deep understanding of the various components and roles within the healthcare industry. Students will explore the structure and organization of healthcare systems, including hospitals, clinics, and other healthcare facilities. Additionally, they will examine the different healthcare professions and the responsibilities associated with each role, such as doctors, nurses, allied health professionals, and administrators. Throughout this course, students will learn about the importance of effective communication in healthcare settings, ethical considerations, patient care, and safety protocols. They will also explore healthcare policies, insurance systems, and how healthcare is financed. By the end

of this course, students will have gained a solid foundation in the healthcare industry, allowing them to make informed decisions about potential career paths in healthcare and develop the skills necessary to provide quality care and support within their chosen profession.

821 MEDICAL TERMINOLOGY - Juniors, Seniors - 0.5 credits

*Athletic Training CTE Year 1*

Medical Terminology is a course designed to provide students with an understanding of the language used in the medical field. This course explores the structure and meaning of medical terms, prefixes, suffixes, and root words, enabling students to effectively communicate and comprehend medical information. Through the study of medical terminology, students will develop the skills necessary for accurate documentation, effective communication with healthcare professionals, and the ability to interpret medical reports and records. This course aims to foster a foundation in the language of medicine and equip students with the essential skills needed for success in the medical industry.

830 INTRO TO ATHLETIC TRAINING - Freshman, Sophomores - 0.5 cr.

This course focuses on the basic information and skills important in the recognition of, care, prevention, and preliminary rehabilitation of athletic injuries. The course includes class work and hands-on application. Students will become familiar with the concepts relevant to sports medicine. Students will learn to prevent, treat, and evaluate athletic injuries and maintain an efficient, professional athletic training facility.

831 INTRO TO HEALTH PROFESSIONS - Freshman, Sophomores - 0.5 cr.

This is an introductory course designed to provide students with an overview of the healthcare careers and foundational skills to begin their journey towards the future as a healthcare professional.

835 SPORTS MEDICINE I - Juniors, Seniors - 1 cr.

*Athletic Training CTE Year 1*

This course focuses on providing students with a foundation of specific concepts related to injury prevention, evaluation, management, and rehabilitation. This course will provide the student with an overview of the Athletic Training Profession. Instructional focus will be on basic emergency care, first aide, CPR, common athletic injuries, injury assessment, and injury management.

840 SPORTS MEDICINE II - Seniors - 1 cr.

*Athletic Training CTE Year 2*

*Prerequisite - Sports Medicine I*

In Sports Medicine II, students will focus on the specialization of athletic training. This course is designed to provide a deeper understanding of the prevention, evaluation, treatment, and rehabilitation of athletic injuries. Students will actively engage in hands-on experiences and gain practical skills in emergency care, exercise physiology, therapeutic modalities, and injury assessment. Through classroom discussions, case studies, and practical exercises, students will develop the knowledge and skills necessary to support athletes in their physical well-being and performance. By the end of the course, students will be equipped with the skills required to pursue further studies in the field of sports medicine and/or athletic training.

845 EXERCISE & NUTRITION - Seniors - 1 cr.

*Athletic Training CTE Year 2*

In this course you will learn about the importance of physical activity and how it positively impacts your body and mind. You will explore how exercise can strengthen your muscles and bones, improve cardiovascular health, and boost your energy levels. Furthermore, you'll learn about different types of exercises, such as cardiovascular, strength training, and flexibility exercises, and learn how to create a well-rounded fitness routine. Additionally, this course will delve into the significance of nutrition in supporting your overall health and fitness goals. You'll understand the role of macronutrients like carbohydrates, proteins, and fats, as well as micronutrients like vitamins and minerals. You'll explore the benefits of a balanced diet and learn how to make informed food choices to meet your nutritional needs.

## CAREER & TECHNICAL EDUCATION (CTE) PROGRAMS

Berwick High School (BHS) offers career and technical education in order to prepare students for careers in technical fields for employment opportunities or future education. BHS has CTE programs in the following areas: Accounting, Criminal Justice, Management Information Systems, Multimedia Technology, and Sports Medicine. State approval is pending for two additional programs: Diversified Occupations and Education. Each of these programs consists of a series of courses a student enrolls in over the course of their high school career. Criminal Justice is a three-year sequence which a student begins in the sophomore year. All other programs are offered as two-year sequences beginning in a student's junior year. Diversified Occupations is a senior year only program.

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

### ACCOUNTING CTE

**ACC1 - Accounting Year 1 - Juniors - 3 cr.**

**ACC2 - Accounting Year 2 - Seniors - 3 cr.**

545 ACCOUNTING I – Juniors, Seniors - 1 cr.

*Accounting CTE Year 1*

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. Computers are utilized for all accounting tasks.

547 ACCOUNTING II - Juniors, Seniors - 1.5 cr.

Prerequisite - Accounting I

*Accounting CTE Year 2*

This course continues the investigation of the field of accounting. Beginning with the completion of the accounting cycle and financial statements for the corporate business entity, the class then moves into a variety of advanced accounting topics. Topics covered include: financial statement/ratio analysis, departmental accounting, uncollectible accounts and account aging, promissory notes and accrued interest, fixed asset valuation and depreciation methods, inventory cost methods (FIFO, LIFO, WAC), and Corporate Accounting topics (common and preferred stock, dividends and treasury stock). Additionally, ethics in business, taxes and basic tax preparation, automated accounting software (Quickbooks), and forensic accounting will be explored. The collapse of Enron Corporation and the resulting legislative changes will also be examined.

560 FUNDAMENTALS OF INVESTING – Juniors, Seniors – 0.5 cr.

*Accounting CTE Year 2*

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.*

568 BUSINESS LAW & ETHICS - Juniors, Seniors – 0.5 credits

*Accounting CTE Year 1*

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.

587 ENTREPRENEURSHIP – Juniors, Seniors – 0.5 cr.

*Accounting CTE Year 1*

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 - Juniors, Seniors – 1 cr

*Accounting CTE; Computer Applications CTE.*

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.

\*591 OFFICE ASSISTANT WITH MOS CERTIFICATION I (H) - Juniors, Seniors - 1 cr.- *Weighted 1.04*

*Accounting CTE; Computer Applications CTE*

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.*

## **COMPUTER APPLICATIONS CTE**

**CA1 - Computer Applications Year 1 - Juniors - 3 cr.**

**CA2 - Computer Applications Year 2 - Seniors - 3 cr.**

568 BUSINESS LAW & ETHICS - Juniors, Seniors – 0.5 credits

*Accounting CTE Year 1; Computer Applications CTE Year 1*

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.

572 WEB PAGE DESIGN – Juniors, Seniors – 0.5 cr

*Computer Applications CTE Year 1; Multimedia Technology CTE Year 1*

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, links, images, and embedded style sheets. Students will also be introduced to other web page development software programs including Google Sites. *This course will meet daily for one semester.*

579 COMPUTER SCIENCE II – Juniors - 1 cr

*Computer Applications CTE Year 1*

*Prerequisites--Successful completion of Computer Science I or permission of the instructor*

Content--Students will learn the basics of computer programming and computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. Topics include number calculations and data, loops, graphics, functions and arrays. Python language will be utilized to develop programs.

\*582 AP COMPUTER SCIENCE PRINCIPLES – Juniors, Seniors - 1.5 cr. - *Weighted 1.08*

*Computer Applications CTE Year 2*

*Prerequisite – Algebra I with at least a B Average, Application Required*

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.

588 DIGITAL LITERACY w/IC3 CERTIFICATION - Juniors, Seniors – 1 cr.

*Accounting CTE; Computer Applications CTE*

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 – Juniors, Seniors - 0.5 cr.

*Computer Applications CTE Year 2*

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. Topics covered will include: Database Concepts and Data, Information Systems Development, Management and Ethics, Supply Chain Logistics, Computer Networks, Cloud Computing and Web 2.0, Information Systems Threat and Security, and Data Backup

\*591 OFFICE ASSISTANT WITH MOS CERTIFICATION (H) - Juniors, Seniors - 1 cr. - *Weighted 1.04*

*Accounting CTE; Computer Applications CTE*

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.*

## **CRIMINAL JUSTICE CTE**

**CJ1 CRIMINAL JUSTICE YEAR 1 - Sophomores - 3 credits**

**CJ2 CRIMINAL JUSTICE YEAR 2 - Juniors - 3 credits**

**CJ3 CRIMINAL JUSTICE YEAR 3 - Seniors - 3 credits**

### **Topics covered during this three year CTE program include:**

**CRIMINAL LAW** - 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.

**CORRECTIONAL COMMUNITY** 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.

**HEALTH ISSUES IN CRIMINAL JUSTICE** will provide students with a practical approach to basic first aid, emergency management, patient assessment and transport, CPR certification, identifying multiple casualty situations and operation of emergency vehicles. Identifying hazardous materials as well as defining OSHA will be closely examined. A study of identifying indicators of child abuse, communicable disease and mental health will be included. Additional content pertaining to personal health and wellness as well as cognition of physical and mental stress and how it occurs will be presented.

**POLICE CONCEPTS AND SKILLS** will cover the historical development of American Law Enforcement and the hierarchy of police administration. Students will be introduced to and practice a wide variety of skills needed and utilized by police to complete daily tasks associated with the position.

**CRIMINAL JUSTICE: SPECIAL POPULATIONS** will instruct students in contemporary issues in criminal justice to include multiculturalism and diversity and how law enforcement professionals deal with them during their daily duties. Class discussions will include dealing with persons whose behavior may be altered by mental illness, drug or alcohol use, developmental challenges and learning disabilities. In-depth debate on race relations, racial profiling, incarceration policies and police brutality will expose students to differing points of view and allow them to research and present these and other issues and how they affect the criminal justice system.

**USE OF FORCE** will introduce students to the Use of Force Continuum and show them the progression and justification of the use of force from officer presence through deadly force. Students will learn hands-on skills to include handcuffing, the use of non-lethal and less-lethal weapons. Class topics will include a study of past and current events and how these events are impacted by use of force policies and issues.

**PRELIMINARY LAW ENFORCEMENT/CRIMINAL INVESTIGATION** will provide students with an overview of the fundamentals of the process of a criminal investigation. An exploration of related topics will include but not be limited to the history and development of the criminal investigations, the legal aspects, the role and responsibilities of the investigator, the process itself, and the tools and techniques the investigator will utilize in gathering information, the

collection, prevention, interpretation and value of evidence as well as discussion of current trends and issues related to this field of study.

FORENSIC SCIENCE presents an overview of the application of science to law. Sample collection, handling, analysis and interpretation of physical, chemical and biological evidence from crime scenes are emphasized. Topics include searching the crime scene, nature of evidence, physical and chemical analysis, forensic toxicology, blood, DNA, and fingerprinting. This course includes both lecture and laboratory weekly. This course will be provided through Lackawanna College.

## **DIVERSIFIED OCCUPATIONS CTE**

590 WORK THEORY – Seniors – 1 cr.

### *Diversified Occupations CTE*

Students will develop career skills in the following areas: employment acquisition and retention, human relations, health and safety, communications development, legal awareness and future planning. Students will also create resumes and cover letters, and work on interviewing skills. Students who intend to participate in the work experience program during their senior year should complete this course as a junior.

592 DIVERSIFIED OCCUPATIONS - Seniors - 3 cr.

Prerequisite—Students must meet with co-op coordinator prior to scheduling and parents/students will complete necessary paperwork. Also, students must be in good academic standing.

Diversified Occupations is offered to only seniors and combines classroom instruction with on the job training in a career area of the student's choice. The employer/workstation must be approved in advance of scheduling.

Requirements: Students must work a minimum of 15 hours per week and at least 150 school days. Students must take 1 credit of Work Theory.

## **EDUCATION CTE**

670 INTRO TO EDUCATION - Juniors, Seniors - 1 cr.

### *Education CTE Year 1*

Intro to Education is designed to prepare students for careers in education, pre-k through 12th grade. This course is designed to give prospective teachers an introduction to education, including historical, ethical, legal, and theoretical perspectives, cultural influences, as well as classroom management techniques. In addition, students will learn about creating a safe and healthful environment when selecting materials and promoting students' safety.

675 FIELD EXPERIENCE 1 - Juniors - 1 cr.

### *Education CTE Year 1*

Students will have the opportunity to interact with teachers and students in pre-k through 12th grade in the Berwick Area School District. This will include a variety of placements where the student will have the opportunity to observe and explore different levels of the educational system.

154 PSYCHOLOGY – Juniors, Seniors - 1 cr.

### *Education CTE Year 1*

This course in psychology focuses on the development of personality, intelligence, thinking, and human growth and development.

**OR**

\*142 AP PSYCHOLOGY – Juniors, Seniors – 1.5 cr. – *Weighted 1.08*

### *Education CTE Year 1*

#### *Application required*

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. In order to receive the weight for the course, students are required to participate in the AP Psychology exam. *Dual Credit option provided through Lackawanna College*

**2025-2026 School Year**

**Education II**

**Field Experience II**

**Sociology**

**MULTIMEDIA TECHNOLOGY CTE**

**MT1 - Multimedia Technology Year 1 - 3 credits**

**MT2 - Multimedia Technology Year 2 - 3 credits**

070 INTRODUCTION TO MULTIMEDIA TECHNOLOGY - Juniors, Seniors - 1 cr.

*Multimedia Technology CTE Year 1*

This course provides students with instruction regarding the evolution of multimedia technology, adaptation of industry trends, and fundamental knowledge of media law. Included in the content is the building of skills in media production with project-based learning opportunities. Students will receive foundational skills in color theory, publishing layout, photography, audio and video production, and writing for the media. Additionally, students will learn background information regarding safety issues and hazard identification in various fields of multimedia technology.

075 PUBLICATIONS I - Juniors, Seniors - 1 cr.

*Multimedia Technology CTE Year 1*

In Publications, students learn multiple skills of producing printed works, such as yearbooks, newspapers, and magazines. Additionally, students will have the opportunity to create digital publications to practice skills studied, which include writing, layout design, photography, proofing, and project management.

572 WEB PAGE DESIGN – Juniors – 0.5 cr

*Multimedia Technology CTE Year 1*

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, links, images, and embedded style sheets. Students will also be introduced to other web page development software programs including Google Sites. This course will meet daily for one semester.

574 DIGITAL GRAPHICS – Juniors, Seniors – 0.5 cr.

*Multimedia Technology CTE Year 1*

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.

076 PUBLICATIONS II - Seniors - 1 cr.

Prerequisite - Publications I or teacher approval

*Multimedia Technology CTE Year 2*

This course provides students with hands-on experience in publications that are conceived, planned, and produced by students under advisement of and with direction from faculty. The possible products include, but are not limited to, the school yearbook, literary magazines, and public relations materials. Additionally, students will have the opportunity to create digital publications.

081 STORYTELLING CONCEPTS - Seniors - 1 cr.

*Multimedia Technology CTE Year 2*

Students will learn advanced writing techniques for various media, including opportunities to create public service announcements, podcasts, and mini-documentaries. Students will utilize audio, video, and editing equipment in the school setting as well as have access to facilities provided by community partners.

082 SENIOR EXHIBITION in MULTIMEDIA TECHNOLOGY - Seniors - 1 cr.

*ONLY Multimedia Technology CTE Year 2*

This course will culminate in the creation of several projects, products, and presentations in order for students to display their knowledge of communication practices, project management, and multimedia creation. The potential products include, but are not limited to: creating and publishing web content, designing advertising and marketing materials for businesses and nonprofit organizations, and creating a self-marketing portfolio.

## **SPORTS MEDICINE CTE**

**SM1 - Sports Medicine Year 1 - 3 credits**

**SM2 - Sports Medicine Year 2 - 3 credits**

819 HEALTH SYSTEMS & PROFESSIONS - Juniors - 0.5 credits

*Athletic Training CTE Year 1*

Health Systems and Professions is a comprehensive course designed to provide students with a deep understanding of the various components and roles within the healthcare industry. Students will explore the structure and organization of healthcare systems, including hospitals, clinics, and other healthcare facilities. Additionally, they will examine the different healthcare professions and the responsibilities associated with each role, such as doctors, nurses, allied health professionals, and administrators. Throughout this course, students will learn about the importance of effective communication in healthcare settings, ethical considerations, patient care, and safety protocols. They will also explore healthcare policies, insurance systems, and how healthcare is financed. By the end of this course, students will have gained a solid foundation in the healthcare industry, allowing them to make informed decisions about potential career paths in healthcare and develop the skills necessary to provide quality care and support within their chosen profession.

821 MEDICAL TERMINOLOGY - Juniors - 0.5 credits

*Athletic Training CTE Year 1*

Medical Terminology is a course designed to provide students with an understanding of the language used in the medical field. This course explores the structure and meaning of medical terms, prefixes, suffixes, and root words, enabling students to effectively communicate and comprehend medical information. Through the study of medical terminology, students will develop the skills necessary for accurate documentation, effective communication with healthcare professionals, and the ability to interpret medical reports and records. This course aims to foster a foundation in the language of medicine and equip students with the essential skills needed for success in the medical industry.

835 SPORTS MEDICINE I - Juniors - 1 cr.

*Athletic Training CTE Year 1*

Sports medicine is a field that focuses on the prevention and treatment of injuries related to physical activity and sports. In this course, students will explore the various aspects of sports medicine, including anatomy, physiology, and biomechanics. They will learn about common sports injuries and their management, rehabilitation techniques, and the role of nutrition in optimizing athletic performance. Through hands-on activities and case studies, students will develop valuable skills in injury assessment, taping and bracing techniques, and emergency medical care. This course is designed to provide students with a comprehensive understanding of sports medicine principles and prepare them for further study or careers in the field.

837 BASICS OF ANATOMY & PHYSIOLOGY - Juniors - 1 cr

*Athletic Training CTE Year 1*

This course involves the integration of the biological and physical sciences. A basic understanding of the principles of chemistry, physics, and mathematics lays the foundation for the basic understanding of the body's function. The course is designed for students interested in a medical related vocation or a career in one of the biological fields. This course is designed to give the student a basic understanding of the anatomy and physiology of the human body.

840 SPORTS MEDICINE II – Seniors - 1 cr.

*Athletic Training CTE Year 2*

*Prerequisite - Sports Medicine I*

In Sports Medicine II, students will focus on the specialization of athletic training. This course is designed to provide a deeper understanding of the prevention, evaluation, treatment, and rehabilitation of athletic injuries. Students will actively engage in hands-on experiences and gain practical skills in emergency care, exercise physiology, therapeutic modalities, and injury assessment. Through classroom discussions, case studies, and practical exercises, students will develop the knowledge and skills necessary to support athletes in their physical well-being and performance. By the end of the course, students will be equipped with the skills required to pursue further studies in the field of sports medicine and/or athletic training.

845 EXERCISE & NUTRITION - Seniors - 1 cr.

*Athletic Training CTE Year 2*

In this course you will learn about the importance of physical activity and how it positively impacts your body and mind. You will explore how exercise can strengthen your muscles and bones, improve cardiovascular health, and boost your energy levels. Furthermore, you'll learn about different types of exercises, such as cardiovascular, strength training, and flexibility exercises, and learn how to create a well-rounded fitness routine. Additionally, this course will delve into the significance of nutrition in supporting your overall health and fitness goals. You'll understand the role of macronutrients like carbohydrates, proteins, and fats, as well as micronutrients like vitamins and minerals. You'll explore the benefits of a balanced diet and learn how to make informed food choices to meet your nutritional needs.

850 CLINICAL EXPERIENCE IN HEALTH SETTINGS - Seniors - 1 cr.

*Athletic Training CTE Year 2*

In this course, students will have the opportunity to gain invaluable real-world clinical experience by working with local professionals in a healthcare setting. This hands-on experience will provide students with a unique opportunity to apply the knowledge and skills they have acquired throughout their high school education in a professional work environment. The students will have the chance to observe and participate in various healthcare tasks, such as assisting healthcare professionals, interacting with patients, and engaging in administrative duties. Students will also have the opportunity to develop important skills such as communication, teamwork, problem-solving, and critical thinking, which are essential for success in any healthcare setting.