

NORTHAMPTON AREA HIGH SCHOOL

**PROGRAM OF
STUDIES**



2019-2020

Luke Shafnisky, Principal
Kimberly Levin, Assistant Principal
Michael Lopata, Assistant Principal
Kimberly Mooney, Assistant Principal

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The High School Program of Studies contains valuable information to assist you in planning your course of study for next year. It includes a list of available courses, course descriptions and graduation requirements. Using this resource effectively is an important, initial step when selecting the most appropriate courses that will not only form the basis of your schedule next school year, but also pave a successful path to college or the work world.

There is little doubt that the world you will be entering after graduation is vastly different than that of just a few years ago. Some students are very clear on their career goals, while others are still exploring the many avenues that may be available. At Northampton, you may choose a rigorous, advanced academic focus to your studies, while another student may be more interested in a career with a vocational or technical focus. It is important to understand and plan a course of study that takes into account your interests, abilities and goals. I encourage you to take courses that challenge and stretch you academically, while keeping in mind your strengths and capabilities.

In this program, you will find almost 170 courses, 19 Advanced Placement courses, 26 Honors courses and 25 vocational-technical programs. Some courses are offered online, while others are scheduled during the early morning or after school to better fit the needs of individuals. As you select courses, please pay close attention to any special requirements or prerequisites to ensure you are eligible for that class. We will make every effort to schedule your selected courses but realize that some courses may not run due to lack of enrollment.

Whichever focus area you choose, Northampton Area High School is committed to helping you along the way to achieve your goals. The teachers, counselors and principals are available to answer any questions you may have and guide you through the process as you make informed and thoughtful decisions regarding course selection and planning your academic program.

The Northampton Area High School Administrative Team

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BOARD OF EDUCATION

David Gogel, President
Chuck Frantz, Vice President
Michael Baird, Ed. D.

John Becker
James Chuss
Chuck Longacre

Ross Makary
Roy Maranki
Robert Mentzell

NORTHAMPTON AREA SCHOOL DISTRICT ADMINISTRATION

Joseph Kovalchik, Superintendent of Schools
Lydia Hanner, Director of Curriculum and Instruction
Brian Leskowich, Director of Transportation
Deborah Ohmacht, Director of Special Education
Kathleen E. Ott, Ed. D., Director of Data, Grants, and Special Programs
Kurt Paccio, Director of Technology
Robert Yanders, Director of Maintenance

NORTHAMPTON AREA HIGH SCHOOL ADMINISTRATION

Luke Shafnisky, Principal
Kimberly Levin, Assistant Principal
Michael Lopata, Assistant Principal
Kimberly Mooney, Assistant Principal

DEPARTMENT COORDINATORS

Business & Technology – Coy Stampone
English – Michael Bauer
Family & Consumer Science – Linda Hayes
Fine & Digital Arts – Erin Miller
Health & Physical Education – Doug Fehnel
Mathematics – Matthew Greenplate
Music – Stacy Hageman

Nursing – Deborah Collins
School Counseling Services – Jennifer Borzillo
Science – Terry Daubert
Social Studies – Gene Thrash
Special Education – Cyndi Dolan
World Languages – April Krempasky

GRADUATION REQUIREMENTS

Students who graduate from Northampton Area High School in 2020 and 2021 shall have satisfactorily completed the following minimal course and credit requirements in one of the following three focus areas:

<u>Honors and Advanced Focus</u>		<u>Traditional Academic Focus</u>		<u>Career and Technical Focus</u>	
English	4.0 credits	English	4.0 credits	English	4.0 credits
Social Studies	3.0 credits	Social Studies	3.0 credits	Social Studies	3.0 credits
Mathematics	3.0 credits	Mathematics	3.0 credits	Mathematics	3.0 credits
Science	3.0 credits	Science	3.0 credits	Science	3.0 credits
Additional Math, Science, or Social Studies	2.0 credits	Additional Math, Science, or Social Studies	1.0 credit	Vocational Technical Technology	7.0 credits 1.0 credit
World Languages	3.0 credits	Technology	1.0 credit	Arts/Humanities	1.0 credit
Technology	1.0 credit	Arts/Humanities (including WL)	2.0 credits	Health	0.5 credit
Add. Arts/Humanities	1.0 credit	Health	0.5 credit	Physical Education	0.5 credit
Health	0.5 credit	Physical Education	1.0 credit	Elective	1.0 credit
Physical Education	1.0 credit	Electives	5.5 credits	Total credits	24.0
Electives	2.5 credits	Total credits	24.0		
Total credits	24.0				
Students in this focus must pass 3 AP and/or College courses, 12 additional Honors or AP courses.					

Students who graduate from Northampton Area High School in 2022 and later shall have satisfactorily completed the following minimal course and credit requirements in one of the following two focus areas:

<u>Traditional Academic Focus</u>		<u>Career and Technical Focus</u>	
English	4.0 credits	English	4.0 credits
Social Studies	3.0 credits	Social Studies	3.0 credits
Mathematics	3.0 credits	Mathematics	3.0 credits
Science	3.0 credits	Science	3.0 credits
Additional Math, Science, or Social Studies	1.0 credit	Vocational Technical Technology	7.0 credits 1.0 credit
Technology	1.0 credit	Arts/Humanities	1.0 credit
Arts/Humanities (including WL)	2.0 credits	Health	0.5 credit
Health	0.5 credit	Physical Education	0.5 credit
Physical Education	1.0 credit	Elective	1.0 credit
Electives	5.5 credits	Total credits	24.0
Total credits	24.0		

A student must attain a 65% (proficient level) or higher for a course to count as credit toward the graduation requirements.

Arts & Humanities - Courses that are designated with an “AH” such as world languages, art, or music may be taken to fulfill the Arts and Humanities electives.

Technology - Courses that are designated with a “T” such as Computer Technology or Graphic Design Solutions may be used to fulfill the Technology electives. Technology requirements can be fulfilled through course offerings in multiple content areas that are identified as technology courses.

Grading for Transfer Students - Transfer student transcripts will be reviewed to identify transferable credits. All credit transfers are subject to administrative review and approval. The transfer student’s grade will not receive credit for a failure even if that grade differs from our grading policy.

All variations to the minimum graduation requirements are initiated through the student’s counselor and then approved by school administration.

COUNSELING SERVICES

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The high school counselors support the school’s mission “to help all students become effective learners” and to assist students in reaching their goals. The counselors are consultants, collaborators, and advocates for students focusing on academic, career, and personal/social issues. Every year, the counselors meet with each student on their caseload. During this appointment, the counselors concentrate on checking credits for graduation and discuss important academic issues including current performance, course selection for the upcoming year, and post-secondary planning. The counselors also review student’s extracurricular activities and interests. Contact your counselor at 610-262-7813, ext. 11133 or <http://nasdschools.org/high-school.cfm?subpage=1884>

Counselor		Students with the Last Name
Amy Wright	ext. 11126	A-Cd
Ryan Brobst	ext. 11127	Ce-F
Kim Butryn	ext. 11129	G-Kg
Nadine Rupp	ext. 11122	Kh-Nf
Jason Winchenbach	ext. 11123	Ng-Sk
Dave Remaley	ext. 11128	Sl-Z
Christina Thrash	ext. 11125	At-Risk Coordinator

GRADING SYSTEM FOR GPA

Raw Grade	Grade	Standard Quality Points	Honors Quality Points	AP Quality Points
100-95	A	4.0	4.5	5.0
94-90	A-	3.6	4.1	4.6
89-87	B+	3.3	3.8	4.3
86-83	B	3.0	3.5	4.0
82-80	B-	2.6	3.1	3.6
79-77	C+	2.3	2.8	3.3
76-74	C	2.0	2.5	3.0
73-72	C-	1.6	2.1	2.6
71-68	D+	1.3	1.8	2.3
67-65	D	1.0	1.5	2.0

GENERAL INFORMATION

It is important for the student to choose courses wisely. **All drop/add procedures and deadlines will be e-mailed home with student schedules. Schedule changes and drop/adds are always dependent upon course availability and master schedule flexibility.** Schedule change requests will be accepted for course requirement changes only. No special preference requests for lunch, study hall, or elective changes will be accepted. The students who choose to add courses to their schedule in lieu of a study hall must do so by the second week of school of each semester. Seniors must carry five (5) credits of coursework. A fifth-year student may be granted approval to carry less than five (5) credits.

Student enrollment of 15 or more is required of all courses or they will be canceled, with the following exceptions:

- TV Production
- iSing
- AP Courses (requires 12 or more)

Any course not run because of low registration may be re-offered the following school year.

Mandatory Remediation and Project-based Assessments - Students will be placed in remediation/intervention classes in any marking period based on Keystone Exams, local assessments, and course grades. Remediation in these courses is mandatory based on PA School Code. Students who have not demonstrated proficiency, according to state regulations, by the end of their junior year, will be required to demonstrate proficiency through a project-based assessment by the end of the first semester of their senior year.

Study Hall/Tutoring - Students who are failing a course may be pulled for tutoring during a study hall or K-Block. Tutoring will take precedence over homework completion. Students will need to complete homework assignments on their own time if tutoring is required. Any student privileges may be revoked if a student is failing.

Advanced-Level Coursework - All students must meet the course prerequisites to select Honors or AP courses. All Advanced Placement courses will have mandatory preparatory summer assignments, which students are expected to complete before the first day of school. In order to be prepared for the rigor and pace of a college-level course, it is essential that students enter AP courses prepared with the course's fundamentals to meet the challenge of content delivery and overall demands of college-level work. Requests to drop AP courses will not be honored after June 30, 2019.

Online Coursework - Students are able to enroll in online courses offered through NAHS teachers. These courses are listed with an OL as a course ID suffix. Students may enroll in a course offered through the Northampton Cyber Academy (NCA) only if the desired course from the Program of Studies is either not available for the current school year or is available but will not fit in the student's schedule. Courses selected through NCA must mirror required courses for a student's grade level before fulfilling an elective category. Students who wish to participate in cyber coursework should speak with their guidance counselor about this option.

Before and After School Classes - In order to offer greater flexibility in scheduling, students may have the opportunity to take courses before or after school. This would allow for early dismissal and/or late arrival for Juniors or Seniors. Each department may or may not offer certain courses. Students should indicate that they are interested in these courses during the course selection process. Courses will need to be fully enrolled in order to run.

AM Courses will run from 6:37 to 7:20 Monday through Friday.

PM Courses will run from 2:32 to 3:25 Monday through Thursday.

Independent Study Seminar - The Independent Study Seminar is intended to provide approved students with the opportunity to receive credit for developing, planning, organizing, and completing a self-generated project under the guidance and supervision of an assigned teacher. The nature of project topics may be uniquely individual to each student. There is an application packet required, detailing the student's proposal that will be reviewed by a committee of teachers, your guidance counselor, and building administrator. Once approved, students should expect to meet approximately every two weeks to discuss the required Reflection Logs on project progress.

COLLEGE COURSES

Students have the opportunity to enroll in college coursework while enrolled in high school. With approval of the principal, students in their senior year may transfer a maximum of five (5) college/university courses to be applied toward the Northampton Area School District graduation requirement. Each college/university course that is successfully completed and passed may count up to one (1) Northampton Area High School credit. The student must provide an official transcript indicating the course and grade received from the college/university in order to obtain NASD credit. College courses taken while students are in high school will receive AP course weighting. All courses will count as elective credit only.

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Concurrent / Dual Enrollment

Students may enroll in coursework at Northampton Area Community College, at their own expense (including tuition, books, fees, and transportation). Courses may be taken in the morning, afternoon, or evening, dependent on coordination with the student's high school schedule. Students must provide their own transportation. Enrollment procedures are reviewed in the spring during the course selection process. Students must meet prerequisite requirements set forth by Northampton Area Community College for any courses in which they wish to enroll.

High School Scholars Program

The High School Scholars Program is available by application on a competitive basis. Students may apply during the spring of their junior year to attend Lehigh University, Lafayette College, DeSales University, or Moravian College to take one course in the fall semester and one course in the spring semester of their senior year. Applications are reviewed by a committee and students are nominated for the program. These names are then submitted to the colleges, who make the final determination of students who may enroll. Generally, two to three students are permitted to take courses at each of the schools. The courses are offered free of charge.

ALTERNATE ROUTES TO GRADUATION

Northampton Area High School can provide various routes to earning graduation requirements. Students who do not meet graduation requirements within four years, or enroll after their fourth year of high school, will be assigned an alternate route to graduation. Each situation will be analyzed and assigned on an individual basis. The IEP team will design special education programs.

The following options are available in order to earn credits and/or recover credits:

Edgenuity

Edgenuity tutorial courses offer students the opportunity to remediate and recover credits that were not earned due to poor academic performance and/or attendance. Edgenuity is a web-based program that is facilitated through a highly qualified teacher at Northampton Area High School. Courses are self-paced.

Northampton Cyber Academy

Students may enroll in courses offered through the Northampton Cyber Academy. Courses selected through NCA must mirror required courses for a student's grade level before fulfilling an elective category.

PARENT RESOURCES

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Useful Websites

www.fafsa.ed.gov Application site for Federal Financial Aid (FREE)

www.studentaid.ed.gov U.S. Dept. of Education Information on types of federal financial aid available to help pay for postsecondary education

www.pheaa.org PA financial resources site for student aid

www.educationplanner.org One Step career and college planning

www.collegeconfidential.com College information

www.fastweb.com Scholarship information

www.PrincetonReview.com College Rankings

www.entrepreneurU.org Searchable database of college entrepreneurship programs

www.collegeboard.com College, career and PSAT, SAT, AP registration and testing info

www.actstudent.org College, career and ACT registration and testing info

Naviance

Naviance is an online college and career exploration resource available to all students at the high school. The program is intended to connect students' interests with career pathways and assist both students and parents in the post-secondary planning process. The career planning tools in Naviance allow student to better understand their strengths and abilities and how these skills align with potential post-secondary pathways. Students can use the program to:

- Complete interest inventories
- Connect their interests to careers
- Set goals
- Develop self-knowledge and personal motivation

Naviance also provides a wealth of resources related to college planning and preparation. Students can use the program to match their interests and goals to colleges that will best fit their needs, allowing students and families to make informed decisions about college application and attendance. Using Naviance students can:

- Explore college admissions stats
- Compare admissions rates to students' academic record
- Match to "best-fit" colleges
- Identify potential college majors
- Work with Guidance to electronically submit applications to college

To utilize Naviance, all students will be provided a login and password to access their account. Students should speak with their guidance counselor to obtain this information.

NASD Parent Web Portal

The parents/guardians are a child's first and foremost important teacher. It is important for the parents/guardians to be aware of and access information regarding their child's education. The parents may submit an application to view grades and other academic information concerning their child online. To submit an application:

- Visit the district web page: <http://www.nasdschools.org>.
- Click the blue and yellow "K12 Systems" icon in the left navigation panel of the homepage.
- Click the Parent Portal Login area.
- Click on 2nd blue link entitled "Parent Portal Application and Acceptable Use Policy Form."
- Enter the district keyword: cement.
- Read and acknowledge the Parent Portal User Agreement by selecting yes or no at the bottom.
- Click on the "Continue" button.
- Please complete the required fields (*). If you have more than one child enrolled in the middle school and/or high school, you may enter all their names. This creates one account that enables you to access all of your children's records. Click the "Save and Print Form" button.
- Print and sign the completed version of the form. Drop off the form or mail to the middle school or high school office to the following addresses:

Sapphire Parent Portal Application
Northampton Area High School
1619 Laubach Avenue
Northampton, PA 18067

Sapphire Parent Portal Application
Northampton Area Middle School
1617 Laubach Avenue
Northampton, PA 18067

- You will receive your PIN number via email within five (5) school days.

2019-2020 TEST DATES

All test dates will be announced and can also be found on the Guidance Services Website.

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PSAT (October 2019)

The PSAT is a practice test for the SATs and the qualifying test for National Merit Scholarships for juniors only. The PSAT is offered once a year. All juniors enrolled in AP English 11, Honors English 11, and English 11 (and interested sophomores in Honors English 10) who are planning to attend college should take the PSAT in fall of their junior year.

SAT Reasoning Test and Subject Area Tests (October 2019 and May 2020)

The SAT reasoning test measures critical reading, writing and math skills. The SAT subject tests measure achievement in specific subject areas. The student can register online at www.collegeboard.org or pick up registration materials in the Guidance Office. The test dates for all locations are available on the website. All juniors who are planning to attend a 4-year college should take the SAT in spring of their junior year. Check the website www.collegeboard.org for the test dates/test sites for the current school year.

Note: It is the responsibility of students who have documented disabilities who require special testing accommodations (per IEP or 504 Plan) to submit documentation to the College Board at least six weeks before the desired testing date. Please contact your counselor for details.

Advanced Placement Exams (May 2020)**Keystone Exams (July 2019, December 2019, and May 2020)**

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. Beginning with the class of 2022, students must demonstrate proficiency on the Algebra I, Literature, and Biology Keystone Exams to graduate, subject to change per PDE requirements. Students will be offered multiple opportunities to take the keystones throughout their high school careers.

NCAA ATHLETIC ELIGIBILITY

In order for a student to be determined eligible to participate in Division I or II athletics in college, each student needs to take a required number of core courses that are approved by the NCAA. Division I and Division II have different requirements for eligibility regarding the amount of courses taken, GPA, and SAT score requirements. All specific information can be found in “The Guide for

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the College-Bound Student-Athlete” on the eligibility website. If your son/daughter is planning on participating in college athletics as a freshman in college, they need to be scheduling Northampton Area High School approved core courses as approved by the NCAA. Early morning classes (A), and after school classes (P) are also approved since they use the same curriculum as courses listed above. Northampton Cyber Academy courses may not be approved by NCAA. Please check with your Guidance Counselor at the time of course selection if you have any questions regarding courses and eligibility. Additional NCAA approved core courses can be found on the NCAA Eligibility website. The following are Northampton Area High School approved core courses offered for 2019-2020:

<p>English E100CP - English 9 E100H - Honors English 9 E101CP - English 10 E101H - Honors English 10 E102CP - English 11 E102H - Honors English 11 E102HOL - Online Honors English 11 E102AP - AP English 11: Language and Composition E103CP - English 12 E103OL - Online English 12 E103H - Honors English 12 E103HOL - Online Honors English 12 E103AP - AP English 12: Literature and Composition E119AH - Public Speaking</p> <p>Mathematics M304 - Algebra I M305 - Algebra II M305H - Honors Algebra II M306H - Honors College Algebra M307 - Geometry M307H - Honors Geometry M310 - Pre-Calculus M310H - Honors Pre-Calculus M311 - Calculus I M311AP - AP Calculus AB M312AP - AP Calculus BC M313 - Statistics M313AP - AP Statistics</p> <p>Science S400 - Physical Science S401 - Biology S401H - Honors Biology S401AP - AP Biology S402 - Chemistry S402H - Honors Chemistry S402AP - AP Chemistry S403 - Physics I S403H - Honors Physics I S403AP - AP Physics I S404AP - AP Physics II S405AP - AP Environmental Science S406H - Honors Anatomy & Physiology S408 - Earth/Space Science S409 - Oceanography S408OL - Online Earth/Space Science S409OL - Online Oceanography S411 - Genetics</p>	<p>S412 - Ecology S413 - People, Science, and the Environment S414H - Honors Microbiology</p> <p>Social Studies H202 - United States History II H202H - Honors United States History II H203AP - AP United States Government H205AP - AP United States History H207AP - AP European History H208 - Modern Global History H208OL - Online Modern Global History H208H - Honors Modern Global History H209 - Psychology H209OL - Online Psychology H209H - Honors Psychology H209OLH - Online Honors Psychology H209AP - AP Psychology H210 - Sociology H210H - Honors Sociology H212 - Criminal and Civil Justice H213 - Discovering Global Perspectives H224AP - AP Microeconomics H225AP - AP Macroeconomics H226 - Civics and Government H226H - Honors Civics and Government H227 - United States History III H227H - Honors United States History III</p> <p>World Languages AH500 - French I AH501 - French II AH502 - French III AH503H - Honors French IV AH504 - German I AH505 - German II AH506 - German III AH506H - Honors German III AH507 - German IV AH507H - Honors German IV AH508 - Spanish I AH509 - Spanish II AH510 - Spanish III AH510H - Honors Spanish III AH511 - Spanish IV AH511H - Honors Spanish IV AH512 - Latin I AH514AP - AP German Language and Culture AH515AP - AP Spanish Language and Culture AH516AP - AP French Language and Culture</p>
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COURSE LISTINGS

BUSINESS AND COMPUTER TECHNOLOGY

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The students in these courses are strongly encouraged to join and compete in DECA and FBLA, co-curricular clubs that prepare students for “real world” professional experiences and careers in business.

TECHNOLOGY SEMINAR I (B601T)

0.5 Credit

Students who have successfully completed Computer Tech: Office Applications (B611T) are not eligible for this course.

This course is designed to introduce students to various technology skills for success including account management, accessing online educational records, appropriate use of technology, proper email communication, digital organization, document collaboration, and web-based applications. This course will also cover internet strategies and cyber safety, word processing, spreadsheet and information analysis, career exploration, and presentation development and delivery.

TECHNOLOGY SEMINAR II (B602T)

0.5 Credit

Prerequisite: Completion of Computer Tech: Office Applications (B611T) or Technology Seminar I

This course is designed to introduce students to advanced presentation development and delivery, advanced word processing, advanced spreadsheet and information analysis, college and career planning, and digital portfolio development and presentation. Fundamental skills learned in Technology Seminar I will be reviewed and reinforced.

ACCOUNTING (B603)

0.5 Credit

Prerequisite: Completion of Algebra II

This course will provide students with an understanding of the importance of accounting principles in both society and the business world. Students will work with T-accounts, a general journal, general ledger, and worksheets. We will be using a virtual business accounting sim bringing accounting to life by letting you do accounting on a business you run.

MARKETING (B604)

0.5 Credit

Grades 10-12

Students will develop an understanding of the importance of the marketing mix: product, price, place, and promotion. In addition, marketing information management will be explored and marketing research conducted. Students will learn to appreciate marketing from both the consumer and business viewpoints. Students will demonstrate mastery learning with a culminating, authentic learning, community-based group project, presentations, and DECA involvement.

SPORTS AND ENTERTAINMENT MARKETING (B606)

0.5 Credit

Students will explore the basics of the marketing mix while developing promotional strategies such as branding, licensing, and advertising in the exciting and competitive industries of Sports and Entertainment. In addition, students will handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking and promotion, and more in a virtual computer simulation of a sports and entertainment venue.

ENTREPRENEURSHIP (B607)

0.5 Credit

Grades 10-12

This course examines what is needed to own and operate a successful small business. The students learn what it takes to be a successful business person. The course focuses on the skills needed to become a successful entrepreneur, how to select the right business field, how to select the various types of ownership, and the importance of a business plan.

PERSONAL FINANCE (B608)

0.5 Credit

This semester course teaches students how to plan and manage their personal finances and boosts their financial literacy. Topics include: personal financial planning; time management; personal budgeting; researching careers; creating a resume; buying a vehicle; renting an apartment; buying a house; setting financial goals; saving for college; calculating take-home pay; paying bills; balancing a checkbook; paying taxes; managing credit, credit cards, and debt; understanding insurance; investing in the stock market; retirement planning; special topics in personal finance; and, much more.

INTRODUCTION TO BUSINESS (B609)

0.5 Credit

Prerequisite: Students who have successfully completed Marketing or Entrepreneurship are not eligible for this course.

An introductory study of the functional areas of business to help students realize the integral role business plays in the economy and our lifestyles. Topics include the forms of business ownership, competition in the domestic and international market, management of

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human and financial resources, marketing, business technology and information management, accounting, and business and personal finance.

BUSINESS LAW (B610)

0.5 Credit

This semester course explores various aspects of business law and boosts students' legal awareness. Topics include laws and their ethical foundation, property law, constitutional rights, dispute resolution, court systems, criminal law, civil law, contract law, consumer protection, insurance law, and special topics in business law.

HTML (B612T)

0.5 Credit

Students are introduced to HTML (Hypertext Markup Language), the standard language of the web used to create and edit web pages. This semester course teaches the students how to create and manage professional, quality web sites without the use of programming. If you are interested in learning more about the Internet or are considering a career in the computer field, this is a great place to start!

WEBSITE DESIGN AND ANIMATION (B613T)

1 Credit

In this class, students will learn three fascinating programs that will inspire them to create rich and exciting websites. The class will begin by creating basic websites using Adobe Dreamweaver CS5. Next, students will use Adobe Flash CS5 to add objects, interactivity, animations, and special effects to their sites. Additionally, students will learn to add unique graphics to sites using Adobe Fireworks.

ONLINE WEBSITE DESIGN AND ANIMATION (B613TOL)

1 Credit

This is the same course as above but offered as an online class.

GRAPHIC DESIGN FOR BUSINESS APPLICATIONS (B617T)

0.5 Credit

Students will learn the basics of graphic designs associated with business applications using various programs working with layers, colors, text, tools, special effects and shapes. Students will learn to perform image "surgery" to delete unnecessary imagery, correct colors, and alter existing graphics using exciting programs such as Adobe Illustrator, Adobe Photoshop and various other open-source graphic editing programs. Projects are approached from a business perspective. Students with an interest in graphic design or just interested in technology in general should not miss out on this opportunity!

INTRODUCTION TO PROGRAMMING (B618T)

0.5 Credit

Prerequisite: Successful completion of Algebra 2 with an 80 or higher

Introduction to Programming is intended for students with little or no programming experience. It aims to provide students with an understanding of the role computation can play in solving problems and to help students, regardless of their career interests, feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals.

BUSINESS COMMUNICATIONS (B619)

0.5 credit

In this fall only semester course, students will have the opportunity to learn how to persuasively and effectively communicate in a global marketplace. Units of study will include: creating a business proposal, email and letter correspondence, collecting and analyzing data through market research, developing and implementing a promotion plan, project evaluation and analysis, and creating a professional real-world business presentation. Class is technology oriented as students will further their skills in a variety of web-based computer programs as well as Microsoft Word and Excel. Registration in this course will require membership in DECA and/or FBLA.

ENGLISH

PREREQUISITE FOR HONORS/AP CLASSES:

An average of 90% is required when moving from CP to Honors or AP.

An average of 80% is required when moving from Honors to Honors or AP.

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**An average of 80% is required when moving from AP to Honors or AP.
Courses may also have additional prerequisites listed in the descriptions.
All AP Courses require completion of summer work. No AP courses may be dropped after June 30.**

All English courses are completed sequentially. **Two required English courses may not be scheduled in the same school year with the exception of English 11 and 12.**

All students Grades 9 - 12 will be assigned a summer reading novel and assignment. The summer reading novel and assignment is intended to be completed over the summer. Students will be given an assessment upon return to school. The content of the summer reading assignment is intended for enrichment purposes. As such, the summer reading assignment is independent of the content of the school year's instructional content. Students are required to adhere to the summer reading assignment policies.

English Summer Reading Assignment Policies:

1. Distribution of books will occur on or before May 15th.
2. Current academic year teacher will distribute summer reading for the following school year.
3. Teachers will record student names and book numbers in a shared Google Form.
4. A Schoology group will be created by grade level. Students will be entered into the Schoology group. Students will submit their completed assignments to their teacher upon returning to school.
5. Photocopies of summer assignment will be made available to students without computer access during the summer and left in guidance for transfer students or other issues.
6. All summer reading assignments will be the same for all students by grade level. Differentiation will occur once students return from the summer recess.
7. General English students will be exempted from the summer reading assignment.
8. Any General English student who moves out of General English will be assigned the summer reading assignment on a case-by-case basis.
9. Any student who transfers into the district in August or September will be given until the end of the first marking period in order to complete the summer reading assignment.
10. Any student who transfers into the District after the third week of the first marking period will be exempted from the summer reading assignment.

ENGLISH 9 (E100CP)

1 Credit

This course focuses on an enriched analysis and interpretation of short stories, novels, drama, poetry, grammar, and vocabulary. The students practice strategies to improve comprehension, interpretation, and analysis of reading materials. In this course the students strengthen their writing and research skills. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. The students also write literary reactions and cause/effect papers. The students improve vocabulary, grammar, and sentence structure in context with the reading selections and writing projects. This class is driven by the Pennsylvania Core Standards of 1) Speaking and Listening; 2) Reading Informational Text; and 3) Writing. In addition, the course will prepare students for the Keystone Exams.

HONORS ENGLISH 9 (E100H)

1 Credit

Prerequisite: Students must also score "proficient" or "advanced" on the Grade 8 PSSA.

This course focuses on an extensive and advanced analysis and interpretation of literary genres in short stories, novels, drama, and poetry. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. The students also write literary reactions and cause/effect papers. In this course the students write and apply research skills. The students strengthen and enrich vocabulary, grammar, and sentence structure in context with the literary selections and writing projects. This class is driven by the Pennsylvania Core Standards of 1) Speaking and Listening; 2) Reading Informational Text; and 3) Writing. In addition, the course will prepare students for the Keystone Exams.

ENGLISH 10 (E101CP)

1 Credit

This course focuses on an enriched study, analysis, and interpretation of American literature during the 18th, 19th, and 20th centuries. The literature includes short stories, novels, drama, and poetry. The students write paragraphs, essays, and papers. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. An integral part of this course is continued improvement of reading comprehension, interpretation skills, and research. The students strengthen and enrich their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing projects. The students are required to

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write a research paper. This class is driven by the Pennsylvania Core Standards of 1) Speaking and Listening; 2) Reading Informational Text; and 3) Writing. At the conclusion of this course, students are required to take the Keystone Literature Exam.

HONORS ENGLISH 10 (E101H)

1 Credit

This course focuses on an extensive and advanced analysis and interpretation of American literature during the 18th, 19th, and 20th centuries. The literature includes short stories, novels, drama, and poetry. The students write paragraphs, essays, and papers. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. An integral part of this course is continued improvement of reading comprehension, interpretation skills, and research. The students strengthen and enrich their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing projects. The students are required to write a research paper. This class is driven by the Pennsylvania Core Standards of 1) Speaking and Listening; 2) Reading Informational Text; and 3) Writing. At the conclusion of this course, students are required to take the Keystone Literature Exam.

CAREER ENGLISH 11 (E102CA)

1 Credit

The Career English 11 course offers an introduction to the career options for the student who is interested in pursuing a technical career or associate's degree and/or trade school immediately after high school. Introduction to technical writing and reading that is aligned with a career track as well as introducing students to topics and skills that will help aid them in obtaining and maintaining a career will be a focus for the class. More traditional literature will also be presented to expose students to various texts, and maintain a well-rounded education. Practice in improving communication skills and building a strong vocabulary will also be part of the course curriculum. This class is not intended for students planning to immediately enter a four year college after graduation.

ENGLISH 11 (E102CP)

1 Credit

This course consists of a survey of American Literature which includes the enriched study, analysis, and interpretation of short stories, novels, drama, poetry, grammar, and vocabulary. Students will become extensively involved with organizational and conceptual analysis and will demonstrate these skills as they engage in written and oral activities. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. An integral part of this course is the continued improvement of reading comprehension, interpretation skills, and research. The students strengthen and cultivate their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing projects. The students are required to write a research paper.

AM ENGLISH 11 (E102A)

1 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM ENGLISH 11 (E102P)

1 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

HONORS ENGLISH 11 (E102H)

1 Credit

This course consists of a survey of American Literature which includes an extensive and advanced study, analysis, and interpretation of short stories, novels, drama, poetry, grammar, and vocabulary. Students will become extensively involved with organizational and conceptual analysis and will demonstrate these skills as they engage in written and oral activities. The students use these writing techniques: 1) expository; 2) argumentative/opinion; and 3) informative. An integral part of this course is the continued improvement of reading comprehension, interpretation skills, and research. The students strengthen and cultivate their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing projects. The students are required to write a research paper.

AM HONORS ENGLISH 11 (E102HA)

1 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM HONORS ENGLISH 11 (E102HP)

1 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

ONLINE HONORS ENGLISH 11 (E102OLH)

1 Credit

This is the same course as above but offered as an online class.

AP ENGLISH 11: LANGUAGE AND COMPOSITION (E102AP)

1 Credit

Students must also score "Proficient" or "Advanced" on the Literature Keystone Exam.

Students must be eager to learn about the complexities of the English language. This college-level course will predominantly focus on nonfiction texts and the rhetorical techniques used by writers. Additionally, students will examine some works of fiction including

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novels, dramas, and poetry. Students will study skills-based techniques in order to become critical readers and develop skills to become proficient writers of expository, analytical, and argumentative essays. The class also includes components of SAT preparation and vocabulary development. Note that this course is designed to prepare students for the AP Language Exam in May and is intended to be a substitute for college freshman English.

CAREER ENGLISH 12 (E103CA)

1 Credit

The Career English 12 course offers more in depth studies of career options for the student who is interested in pursuing a technical career or associate's degree and or trade school immediately after high school. Writing and reading focuses on career fields as well as introducing students to technical writing and forms that they will use in their careers. Traditional pieces of literature are also presented to expose students to various texts. Practice in improving writing skills and vocabulary is also part of the course's curriculum.

COLLEGE-READY ENGLISH 12 (E103CR)

1 Credit

Prerequisite: Students will be selected by PSAT verbal scores, Keystone Literature Exam scores, and counselor/teacher recommendation.

The course is designed to prepare almost-proficient students for college English by specifically identifying and addressing the prerequisites of Northampton Community College's English 101 Course. Students will engage in critical thinking, reading, and writing in a supportive, collaborative environment. These writing skills include research, reaction / analysis, argumentative, theme-related, and comparison / contrast. Students will learn and apply the strategies and develop the skills needed to understand challenging academic reading and to write academic essays. The students will strengthen their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing. The students are required to complete a research-based project and/or oral presentation. Completion of this course with a 73% final average could qualify for 1 college credit at Northampton Community College.

ENGLISH 12 (E103CP)

1 Credit

This course focuses on an enriched study, analysis, and interpretation of the British Literary periods: 1) Anglo-Saxon; 2) Medieval; 3) Renaissance; and 4) Romantic. The students study a classic and/or modern novel. The students learn and practice a variety of reading strategies to improve comprehension, understanding, and interpretation of reading materials. An integral part of this course is continued improvement of reading comprehension, interpretation skills, and research. The students' writing assignments stress fluency and exactness. The students use these writing techniques: 1) research/informative; 2) reaction/analysis; 3) argumentative; 4) theme related; and 5) comparison/contrast. The students strengthen their literature skills, vocabulary, grammar, and sentence structure in context with the reading selections and writing. The students are required to complete a research-based project and/or oral presentation.

AM ENGLISH 12 (E103A)

1 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM ENGLISH 12 (E103P)

1 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

ONLINE ENGLISH 12 (E103OL)

1 Credit

This is the same course as above but offered as an online class.

HONORS ENGLISH 12 (E103H)

1 Credit

This course focuses on extensive and advanced readings of short stories, novels, drama, and poetry. The students analyze and interpret readings from the British literary periods: 1) Anglo Saxon; 2) Medieval; 3) Renaissance; and 4) Romantic. The students study a classic and/or modern novel. In this course the college-bound students write with clarity, exactness, and originality while developing the skills of synthesis, critical analysis, and research. The students read to understand and analyze the techniques, themes, and styles of the authors studied. In this course the following writing techniques will be used: 1) research/applied skills; 2) reaction/analysis; 3) comparison/contrast; 4) exposition; and 5) argumentation. Class discussion and participation are an integral part of this course; the students use the Socratic Seminar format for questions, discussion, analysis, and interpretation. The students' timed-writings will

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demonstrate style, conciseness, precision, voice, organization, sound content, elevated language, and exact mechanics. Students need to be motivated, independent thinkers and workers in order to be successful in this course.

AM HONORS ENGLISH 12 (E103HA)

1 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM HONORS ENGLISH 12 (E103HP)

1 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

ONLINE HONORS ENGLISH 12 (E103OLH)

1 Credit

This is the same course as above but offered as an online class.

AP ENGLISH 12: LITERATURE AND COMPOSITION (E103AP)

1 Credit

Students must also score “Proficient” or “Advanced” on the Literature Keystone Exam.

This course provides the college-bound student the opportunity to enrich his/her critical and analytical thinking, reading, and writing skills. The students analyze the studied authors’ literary works and writing techniques and styles. The students develop and analyze their own writing style and analyze the writing styles of their peers. In this course the students use these writing techniques: 1) research/applied skills; 2) reaction/analysis; 3) comparison/contrast; 4) exposition; and 5) argumentation. Class discussion and participation are an integral part of this course. The students’ timed-writings need to demonstrate style, conciseness, precision, voice, organization, sound content, elevated language, and exact mechanics. The students use the Socratic Seminar format for questions, discussion, analysis, and interpretation. The students are required to complete a research-based project and/or oral presentation. For this challenging course the students need to be motivated and independent thinkers and workers. The student is eligible to take the AP examination.

THEATER ARTS (E106AH)

0.5 credit

Theater arts will introduce students to theater basics. Students will acquire a functional theater vocabulary while learning the elements of theater history, improvisation, pantomime and acting. Through individual and group performances, students will explore non-verbal communication, voice and diction and oral interpretation. They will be introduced to theater production and will assist in the production of either the Fall Play or the Spring Musical.

JOURNALISM (E108AH)

1 credit

This course will focus on the techniques for writing news articles, and the skills needed to produce a print or digital newspaper. In addition to learning the fundamentals of news writing, students will learn interviewing skills, basic photography, digital editing, and graphic design. The newspaper class will produce a digital newspaper that will be distributed to all students and faculty of the high school, which will be comprised entirely of articles, photos, and other content relating to Northampton High School. Students do not need to be a part of the Newspaper Club to participate in the newspaper class.

YEARBOOK (E109AH)

1 credit

Yearbook is a full – year elective course. This course is designed for any student who is involved in the NHS Amptennian (yearbook). Students will learn various skills and concepts associated with the creating and selling of the NHS Yearbook both in and out of class, digital photography (take photographs), Photoshop, advanced desktop publishing skills, computerized text layout design, story and caption writing, giving surveys/collecting data, sending mailings, making announcements, marketing skills, design advertisements to sell the yearbook, verify all financial transactions (purchases and deposits), as well as the distribution of the yearbook.

MYTHOLOGY (E113AH)

0.5 Credit

This semester course provides students with the opportunity to explore the mythology of the Greeks and Romans, which will be used as the foundation for additional study of the myths of other cultures. Throughout the course, students may choose to explore the mythology of world cultures, which may include: Incan, Mayan, Native American, African, Indian, Asian, Norse, Middle Eastern, Celtic, Inuit, etc. Students will then use their knowledge to analyze how cultural similarities and differences are reflected in these cultural belief systems. Students in the course will learn to improve their critical analysis’ skills through the use of technology, group projects and alternative assessments.

PSAT/SAT/ACT VERBAL PREP (E117AH)

0.5 Credit

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This course is designed to help students prepare for the rigors of taking the PSAT / SAT / and ACT Tests offered by the College Board. Our primary goal is to identify and implement test taking strategies using pre-requisite knowledge to increase student performance. The class will emphasize vocabulary building and practice.

CREATIVE WRITING (E118AH)

0.5 Credit

This course is designed for students to explore different writing forms that often fall outside of the English class curriculum. Through individual and class readings, examining literature structures, engaging in group discussions, outlining, planning, writing, and peer-editing, students will craft their own writing pieces, based on the different forms and genres. This course will allow students to engage in writing that encourages them to be creative and unique, while also learning about the nuances of written text. Throughout the course, students will create a portfolio which will include essays, poems, a short children's story, a short screenplay, and a personal memoir.

PUBLIC SPEAKING (E119AH)

0.5 Credit

If you get butterflies in your stomach when you have to give an oral presentation in front of an audience, this course is for you! In this semester course the students learn how to be confident and have the skills needed to speak before an audience, small or large group, in college, and/or on the job. The students also learn how to write and deliver a variety of speeches which inform, entertain, persuade, and demonstrate. This course includes reading units, written assignments, and oral presentations for evaluation.

ESL LEVEL 1 (E121)

3 credits

This course is designed to introduce speakers of other languages to the study of English. It is for students who are described as Entering and Beginning on language proficiency tests. The course encompasses instruction and practice in listening, speaking, reading, and writing skills. There is emphasis placed on vocabulary development, grammar forms and functions, reading comprehension strategies, and the development of writing skills. Beginning with Basic Interpersonal Communicative Skills (BICS), the course also strives to begin to develop Cognitive Academic Language Proficiency (CALP). The students are enrolled based on placement testing and teacher recommendation. Since research indicates that second language acquisition of academic language takes at least five (5) to seven (7) years, more than one (1) year may be spent at this level.

ESL LEVEL 2 (E122)

2 credits

This course is designed for the intermediate English language student. It is for students who are described as Developing and Expanding on language proficiency tests. The course provides instruction and practice in the four domains of language: listening, speaking, reading, and writing skills. There is an emphasis on expanding vocabulary along with an introduction to idioms. The students learn and practice grammar forms and functions, reading fluency, comprehension strategies, and writing types. The students improve and advance their acquisition of academic language to produce Cognitive Academic Language Proficiency (CALP). The students are enrolled in this course based on placement testing and teacher recommendation. Since research indicates that second language acquisition of academic language takes at least five (5) to seven (7) years, more than one (1) year may be spent at this level.

ESL LEVEL 3 (E123)

1 credit

This course is designed for the almost-proficient student of English. This course is for the students who are described as Bridging on the language proficiency tests. The course continues to give instruction in speaking, listening, reading, and writing skills. The continued development of academic language is stressed. The student's use of idioms and collocations is expanded. The students learn advanced grammar forms and functions and reading and writing skills. It is recommended that a student in Level 3 take an appropriate English class concurrently. The students are enrolled in this course based on placement testing and teacher recommendation. Since research indicates that second language acquisition of academic language takes at least five (5) to seven (7) years, more than one (1) year may be spent at this level.

FAMILY AND CONSUMER SCIENCES

CREATIVE LIVING (F720)

1 Credit

Instruction is provided in the areas of child development, food and nutrition, housing and interior design, and sewing skills. Throughout this course, the students acquire useful information, skills, and hands-on experience for day-to-day use now and in the future. The students learn about: Food and Nutrition: The students develop an understanding of the relationship of food to health, have an opportunity to exercise their creative talents, and develop skills in food preparation through cooking labs. Child Development: The students acquire basic ideas and philosophies about parenting and the development of children. The infant simulator "Baby Think It Over" is carried by each student for up to a 24-hour period to simulate the gravity and responsibility of parenthood. (An alternate assignment may be selected if preferred for individual circumstances.) Any student interested in working with children (day care

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centers, elementary education, etc.) would benefit greatly from this course. Housing and Interior Design: The students become actively involved in considerations for selecting a living environment and the art of interior design. Everything from financing and designing to furnishing a home is covered. Sewing Skills: The students are given a basic understanding of how to operate a sewing machine, and complete various sewing projects. Fashions, designs, fabrics, and pattern selections are all topics that are explored.

NUTRITION FOR WELLNESS (F722)

0.5 Credit

Prerequisite: Completion of Culinary Arts and / or World of Baking

In this semester course, students will study food choices, the digestive system, food for energy, and eating patterns, as well as the major nutrients. Sports nutrition and principles of weight management will also be covered. Cooking labs will directly correlate to what is being taught and reinforce the concepts of good nutrition, healthy eating and wellness.

WORLD OF BAKING (F723)

0.5 Credit

This semester course is designed to give students an understanding of the principles of baking. The students in this course receive cooking lab experiences with traditional American and international favorites, while studying the baking process. Kitchen basics, healthy adaptations, functions of ingredients, consumerism, nutrition, and food decisions are taught through hands on application in the areas of breads, pies, cakes, and cookies.

CULINARY ARTS (F724)

0.5 Credit

This semester course emphasizes developing basic culinary skills through cooking laboratory experiences centered around making breakfast/lunch/dinner, appetizers, side dishes, snacks and dessert products. Students will learn about nutrition, consumerism, and meal management. Basic cooking methods, kitchen equipment, safety and sanitation will also be explored.

INDEPENDENT LIVING (F726)

0.5 Credit

In this semester course, students gain a competitive edge and prepare for living independently. Students learn about themselves while tackling survival skills for living on their own: 1) being consumer savvy and becoming financially responsible; 2) healthy meal planning; 3) clothing care and maintenance, including basic hand and machine sewing projects; 4) relationship skills; 5) child development; and 6) housing considerations and room design planning. Most importantly, the knowledge and skills learned by students in this course can be applied to their real world.

FINE ARTS AND DIGITAL ARTS

DIGITAL PHOTOGRAPHY (AH800T)

0.5 Credit

This semester course will have you investigating the photographic world, beginning with how to use a digital camera and related equipment. We then move on to manipulating those images within Adobe Photoshop while doing some photo retouching, macro photography and photo illustration. *Please Note: To capture your photos you may sign out one of our cameras or use your own (as long as it meets class guidelines).*

GRAPHIC DESIGN SOLUTIONS (AH801T)

0.5 Credit

Do you ever wonder how movie posters are made or who has the job of designing the NIKE logo? In this class, you will explore what a new designer experiences on a daily basis. You will use Macintosh workstations and software from the Adobe Creative Suite

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(Adobe Photoshop and Adobe InDesign) to create various design projects such as logos, book covers, and ads.

TV PRODUCTION (AH802T)

1 Credit

Want to be a part of the Channel 29 crew and see how a TV studio works? Learning how to be an active part of a working TV studio is the main component of this class. You will focus on learning how to use the studio equipment to create and develop the Morning Mix and other digital productions.

BASICS OF ART (AH805)

0.5 Credit

This semester class is the key course that opens the door to other art courses. It allows you to explore your creativity, making works of art from a wide variety of materials, including; pencil, watercolor, acrylic, clay, wire, and of course raffia. (What's raffia?) You'll also practice techniques, drawing skills, and crafts, working both 2D and 3D projects. This course is a prerequisite for Drawing, Painting & Design, and Clay, Metal & World Arts... and fun!

DIGITAL ANIMATION (AH806T)

0.5 Credit

Want to create your own animated cartoon? This is your chance! In this semester course you will use ToonBoom Studio software to develop and create a variety of animated projects. Emphasis will be placed on the evolution and creation of stories and characters, effective storyboarding and creating your finished animations using all of the digital tools available on our Macintosh workstations.

SO YOU THINK YOU CAN'T DRAW (AH807)

0.5 Credit

Can't even draw a stickman? This semester long course breaks down drawing skills into simple, understandable bites, one pencil line at a time. A willing student with an open mind will be able to work beyond base drawing, into light and shadow, design layout, and watercolor. Come as an art emergency and leave as an emerging artist!

DRAWING, PAINTING AND DESIGN (AH809)

1 Credit

Prerequisite: So You Think You Can't Draw or Basics of Art

This mid-level art course will have you refining and learning new drawing, painting, and design techniques. You will hone traditional rendering skills, while building personal themes. Explore various materials such as: batik, printmaking, watercolors, acrylic paints and more. This course pushes you beyond that blank paper and is a doorway to Advanced Fine Arts. Tap into your fun side to tell your own story without saying a word.

CLAY, METAL, AND WORLD ARTS (AH812)

0.5 Credit

Prerequisite: Basics of Art

Play with 3-D materials and techniques, learning about art's purpose throughout the world. You may work in metal, plaster, clay, raffia, paints, maybe even mud. Develop a deeper understanding of cultural arts, and design principles and composition in your crafting. This course leads to Advanced Fine Art. Boo-boos optional. Band-aids required!

ADVANCED FINE ART I (AH841)

1 Credit

Prerequisite: Drawing, Painting, and Design or Clay, Metal, & World Arts

This exciting course is intended for the highly motivated art student willing to dedicate time and energy to their love of creating. The fast paced program provides students with projects for a knock-your-socks-off portfolio for admission to college art programs. You will be working with many different materials from tea, watercolors, metal, and clay, to so much more. This class combines the concepts of advanced art and AP level art courses. Students can take Advanced Fine Art for up to 2 years, with credit, and exploring new projects in-depth. Feed your inner artist with a day painting by the river, experiencing unlimited growth in your work, and developing your own close-knit art family.

ADVANCED FINE ART II (AH842)

1 Credit

Prerequisite: Advanced Fine Art I

This is a continuation of Advanced Fine Art I and is also an exciting course intended for the highly motivated art student willing to dedicate time and energy to their love of creating. The focus continues to be on similar techniques, composition, and conceptual development, but with a higher level of expertise. Students who elect to do an AP Portfolio will have that option.

THE CAD CREATION LAB (AH836T)

1 credit

Want to invent and create new products? In this class you can design and create anything from sneakers to cell phone holders! If you are thinking about a career in one of the many fields of study related to Design and/or Engineering or even if you want to just create amazing things, come and join us for a fun and highly interactive experience in our Creation Lab! You will use your creativity and AutoCAD (the industry-standard software) among other software packages to solve intriguing problems in industrial, product and packaging design.

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IMAGINEERING WORKSHOP (AH843T)**1 credit**

Have you ever wanted to try to invent, create, or make something and not had anywhere to do it? This is the place! Use your investigative skills to figure out why and how things work and make a little something of your own. Create an app, invent a new game, write and direct your own movie, or create a solar powered robot. Work independently or as a team or group. Your imagination is the limit!

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HEALTH AND PHYSICAL EDUCATION

Courses that have the HE prefix do not count toward the physical education graduation requirement.

SECONDARY HEALTH (HE702)

0.5 Credit

Required of all grade 9 students.

A requirement for all students to graduate from NAHS, this course emphasizes life management skills necessary for optimum health. Content included in this course is: introduction to health & wellness, the decision-making process, self-esteem, relationships and reproduction, violence, abuse, bullying and suicide prevention, infectious diseases, HIV/AIDS and other sexually transmitted infections, alcohol, tobacco, and other substances in regards to use, misuse and abuse. The purpose of the Student Assistance Program (SAP) is explained, along with proper procedures in utilizing the program. Students will be given opportunities to incorporate technology into daily lessons.

SECONDARY FITNESS (PE702)

0.5 Credit

Required of all grade 9 students.

A requirement for all students to graduate from NAHS, this course highlights theories and their applications, necessary for one to attain the optimum level of individual fitness. Content included in this course is: identification and application of health-related fitness components of cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition; skill-related fitness components of speed, agility, power, balance, coordination and reaction time. Fitness games to be performed will be Team Handball, Flickerball, Gatorball and Ultimate Frisbee, along with lead-up games, drills and activities. Fitness Testing will be performed in the beginning and end of the semester with individual data to be used in goal setting and individual fitness level reflection. Nutrition, Fitness Walking and Weight/Resistance Training will be taught so students can create and utilize an individual fitness workout plan to meet goals, needs and interests. Students will be given opportunities to incorporate technology into daily lessons.

TEAM SPORTS (PE705)

0.5 Credit

Prerequisite: Passing grade in Secondary Fitness

This semester course is designed for students who enjoy indoor and outdoor team sports. In this semester course the students are offered the opportunity to participate in activities with focus on application of skills within the framework of the rules and basic strategies of the game. The students realize effective benefits through their constant interaction and participation with peers. The course offers a wide range of activities which could include Football, Softball, Basketball, Soccer, Floor Hockey, Volleyball, Lacrosse, and Ultimate Frisbee.

STRENGTH CONDITIONING (PE706)

0.5 Credit

Prerequisite: Passing grade in Secondary Fitness

This semester course is designed for students who want to develop muscular strength, endurance, and flexibility through the use of weights and other strength training methods. This course introduces free weights, dumbbells, universal machines, and other weight training devices. Students who sign up for this course should be willing and able to create and follow a strength-training program five times per week.

PERSONAL FITNESS (PE707)

0.5 Credit

Prerequisite: Passing grade in Secondary Fitness

This semester course is designed for students who want to develop programs of exercise and activity in order to attain goals specifically dealing with the five health-related fitness components (cardiovascular endurance, muscular strength and endurance, flexibility, and body composition). The students evaluate their fitness levels, target heart rates, and explore nutritional needs. Students have daily access to the High School's Fitness Center. Ultimately, students develop and implement personal fitness programs utilizing weight training, aerobic and anaerobic activities, fitness walking, lifetime sports, as well as any activity of interest. Students complete the semester with creating a workout regime and nutrition plan to use in the achievement of personal goals.

DANCE/RHYTHMIC ACTIVITY (PE 708)

0.5 Credit

Prerequisite: Passing grade in Secondary Fitness

In this semester course the students are exposed to different types of dance and rhythmic activities. The students learn how dance and rhythmic activity is used in personal and lifetime fitness. The students learn dance positions and basic, intermediate, and advanced rhythmic movements. The students learn: 1) step aerobics; 2) yoga; 3) country line dancing; 4) contra and social dance; and 5) ballroom dancing. The students have opportunities to learn and participate in the choreography of a dance, and use knowledge gained to participate in a final dance.

NET AND RACQUET SPORTS (PE709)

0.5 Credit

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Prerequisite: Passing grade in Secondary Fitness

This semester course is designed for students to master a series of skills to help develop an appreciation and understanding of the game of Volleyball. It also allows the students to explore and improve on skills and knowledge to play racquet sports for lifetime pleasure. These sports could include Badminton, Pickleball, Paddleball, Tennis and Table Tennis.

INTRO TO SPORTS MEDICINE/ATHLETIC TRAINING (HE711) 0.5 Credit

Prerequisite: Passing grade in Secondary Health

This semester course introduces the students to the basic skills and knowledge needed for prevention and care of athletic injuries. The students learn the recognition of sports related injuries, emergency procedures, training room responsibilities, as well as rehabilitation and training techniques. The students study the historical perspective of sports medicine, organization of sports medicine programs, basic sports medicine terminology. The course focuses on specific human anatomy, injury evaluation, treatment, and rehabilitation as it applies to sport injuries of the lower extremities. The students have the opportunity to gain practical experience in taping and wrapping athletic injuries.

SPORTS MEDICINE/ATHLETIC TRAINING II (HE712) 0.5 Credit

Prerequisite: Passing grade in Introduction to Sports Medicine/Athletic Training

This semester course continues to address the skills and knowledge needed in the prevention and care of athletic injuries, especially in regards to upper body injuries of the head, neck, upper extremities, the trunk and the spine. The course includes a brief review of sport medicine terminology and protocols, anatomy, types of injuries, prevention of injuries, treatments, and rehabilitation. The students practice wrapping and taping. The students also discuss liability issues, effects of performance enhancing drugs, and the current trends in sports medicine.

HEALTH EMERGENCIES (HE713) 0.5 Credit

Prerequisite: Passing grade in Secondary Health

This semester course is designed for students going into medical professions as well as any student who is interested in gaining the knowledge and skills to perform in life-threatening situations. The students are able to attain Red Cross certification in Single-Rescuer CPR, First Aid, and AED. Those students who wish to be certified in these three categories need to pay \$28.00 for the American Red Cross servicing fees.

SPORT INDUSTRY (HE716) 0.5 Credit

This semester course examines in depth the many career possibilities in connection with the world of sports. The students discuss historical perspectives, societal influences, and current events in regards to their influence on careers. The students develop an awareness of the prerequisites, commitments, and requirements needed for a successful sports career. The students need Internet computer skills, library research skills, critical thinking skills, and good communication skills.

SPORT AND PERFORMANCE PSYCHOLOGY (HE717) 0.5 Credit

Prerequisite: Passing grade in Secondary Fitness and Secondary Health

This theory course is designed for student athletes, students in other performance-based activities, or students just interested in this topic. This semester course introduces topics and skills that improve sport performance. The students study the principles of: 1) mental toughness; 2) confidence; 3) focus; 4) motivation; 5) goal setting; 6) visualization, 7) team harmony; 8) leadership; 9) emotional control; 10) intensity; and 11) sportsmanship.

MATHEMATICS

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PREREQUISITE FOR HONORS/AP CLASSES:

An average of 90% is required when moving from CP to Honors or AP.

An average of 80% is required when moving from Honors to Honors or AP.

An average of 80% is required when moving from AP to Honors or AP.

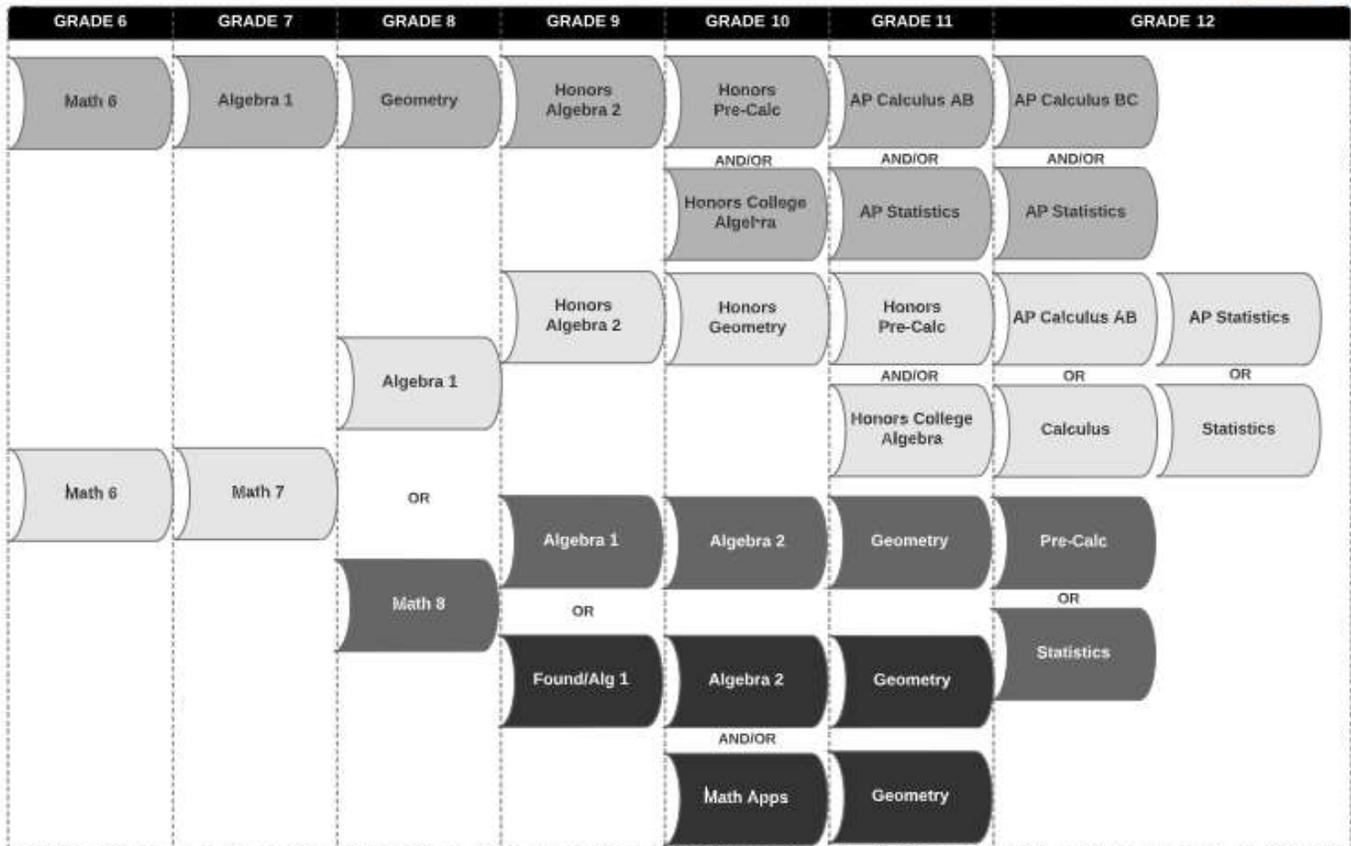
Courses may also have additional prerequisites listed in the descriptions.

All AP Courses require completion of summer work. No AP courses may be dropped after June 30.



NASD SECONDARY MATH COURSE PROGRESSION

Below are suggested course progressions. They can be modified based on student needs.



*Algebra 2 and Geometry may be taken concurrently at the high school to accelerate within the course progression.

*Statistics is an elective but is recommended for college-bound students.

*All prerequisites and minimum grade requirements must be met to proceed through the course progression.

FOUNDATIONS OF ALGEBRA (M303)

1 Credit

Students will learn and understand how to apply constants and variables in solving and graphing equations and inequalities with one and two variables. They will also learn operations with polynomials. Furthermore, students will be provided opportunities to apply fundamental algebraic operations to real life situations. Individually or in groups, students will discuss and solve problems with appropriate technology. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework and tests involving problem solving skills. Students who score below Proficiency level in 8th Grade Pre-Algebra courses, and/or PSSA Math, will be considered for this class. *Students have the option to purchase their own TI-30XS Multi-view calculator or borrow one from the district for the year.*

ALGEBRA I (M304)

1 Credit

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This course examines the study of numbers and their properties. The students learn: 1) operations with real number; 2) linear equations; 3) linear inequalities; 4) functions; coordinate geometry; 5) data analysis. At the conclusion of this course, students are required to take the Keystone Algebra I Exam. *Students have the option to purchase their own TI-30XS Multi-view calculator or borrow one from the district for the year.*

ALGEBRA II (M305)

1 Credit

Prerequisite: Algebra I

This course examines the structure of the real number system. The students learn: 1) functions and their graphs; 2) slope and the equations of lines; 3) solving simultaneous equations; 4) properties of exponents and radicals; 5) the logarithm function; 6) polynomials/quadratic formula; and 7) intersecting curves. *Students have the option to purchase their own TI-30XS Multi-view calculator or borrow one from the district for the year.*

HONORS ALGEBRA II (M305H)

1 Credit

Prerequisite: Algebra I

This course examines the structure of the real number system. The students learn: 1) functions and their graphs; 2) slope and equations of lines; 3) solving simultaneous equations; 4) properties of exponents and radicals; 5) the logarithm function; 6) polynomials/quadratic formula; 7) intersecting lines and curves; 8) solving problems; 9) linear programming; 10) solving and graphing inequalities; 11) patterns and sequences; and 12) binomial expansion. When the students graph in class, the emphasis is placed on translating the parent function. *The students are expected to have a scientific calculator.*

HONORS COLLEGE ALGEBRA (M306H)

1 Credit

Prerequisite: Algebra II; It is recommended that students take this course before or concurrently with Honors Precalculus or Precalculus.

This is an elective course normally taken in conjunction with Pre-Calculus or Calculus I. This course introduces a survey of college algebra topics: 1) solving linear systems of equations and inequalities functions and their inverses; 2) higher degree polynomial equations; 3) matrices and determinants; 4) linear regression; 5) transformations of functions; and 6) exponential and logarithmic functions. *The students are expected to have a scientific calculator.*

AM HONORS COLLEGE ALGEBRA (M306HA)

1 Credit

Prerequisite: Algebra II

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

GEOMETRY (M307)

1 Credit

Prerequisite: Algebra I and Algebra II

This course examines the study of the shapes and properties of geometric figures. The course emphasizes the development of the concept of logical proof. The students will learn: 1) introductory logic; 2) definitions; 3) assumptions; 4) theorems; 5) distance; 6) angles and congruence; 7) parallel lines; 8) similarity; 9) area volume; and 10) geometric constructions using ruler and compass. *The students are expected to have a scientific calculator.*

HONORS GEOMETRY (M307H)

1 Credit

Prerequisite: Algebra I and Algebra II

This course examines the study of shapes and properties of geometric figures. The course emphasizes formal proofs using definitions and theorems in a precise manner to support arguments and validate conclusions. The students learn Analytic Geometry by combining geometric concepts with Algebra. The students will learn: 1) introductory logic; 2) definitions, postulates, and theorems; 3) distance; 4) angles and congruence; 5) parallel lines; 6) similarity; 7) Pythagorean theorems; 8) special triangles; 9) quadrilaterals; 10) area and volume. The students do construction straightedge and compass. The students are required to complete projects. *The students are expected to have a scientific calculator.*

MATHEMATICS APPLICATIONS (M309)

1 Credit

Prerequisite: Algebra I

This course is for students who plan on pursuing a career in the social sciences, technology, arts, or elementary education. This course will review algebraic concepts and introduce geometric concepts while applying them to real world situations. The students are required to complete class projects. *Students have the option to purchase a TI-30XS Multi-view calculator or borrow one from the district for the year.*

PRECALCULUS (M310)

1 Credit

Prerequisite: Algebra II and Geometry

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Pre-Calculus is the study of the sine and cosine functions and their properties, with application to the complete solution of triangles and waveforms. The students learn: 1) rotation; 2) trigonometric identities; 3) curve sketching; 4) inverse functions and relations; 5) Analytic Geometry; 6) vectors; 7) complex numbers; and 8) 3-dimensional coordinate geometry. In Analytic Geometry, coordinate relationships are used to establish properties of conic sections and related curves. *The students are expected to have a scientific calculator.*

HONORS PRECALCULUS (M310H)

1 Credit

Prerequisite: Algebra II and Geometry; It is recommended that students take Honors College Algebra concurrently.

This course examines trigonometry, conic sections and elementary functions. The students learn functions that are: 1) linear; 2) polynomial; 3) rational; 4) exponential; and 5) logarithmic. In particular, the students study the properties of functions, the algebra of functions, and the graphs of functions. *The students are expected to have a TI-84 graphing calculator.*

CALCULUS I (M311)

1 Credit

Prerequisite: Completion of Pre-Calculus and an 80% in Algebra II

Calculus I is a college-level course which introduces the properties of curves. The students learn: 1) functions; 2) limits; 3) derivatives (slope of a curve); 4) integral (area between curves); and 5) applications to significant real world problems. *The students are expected to have a scientific calculator.*

AP CALCULUS AB (M311AP)

1 Credit

Prerequisite: Honors Pre-Calculus or Pre-Calculus

AP Calculus I is a college-level course which introduces the properties of curves. The students learn: 1) functions; 2) limits; 3) derivatives (slope of a curve); 4) integral (area between curves); and 5) applications to significant real world problems. The students are eligible to take the AP examination. *The students are expected to have a TI-84 graphing calculator.*

AP CALCULUS BC (M312AP)

1 Credit

Prerequisite: Advanced Placement Calculus

This course is an extension of AP Calculus AB. It is intended for those students who, after completing AP Calculus AB, want to reinforce their knowledge of topics and extend their knowledge into more Calculus topics. There are three parts to the course: 1) 10 topics from AP Calculus AB; 2) new topics in AP Calculus BC; and 3) topics from a traditional second semester college Calculus class. Specific topics include limits, derivatives, integrals, and polynomial approximations and series. *The students are expected to have a TI-84 graphing calculator.*

STATISTICS (M313)

1 Credit

Prerequisite: Algebra II and Geometry

Statistics is the study of data and the conclusions drawn from that data. In this course students are introduced to descriptive statistics, which provides a basis for the study of inferential statistics. The students learn: 1) data collection and organization; 2) graphing techniques; 3) measures of center and spread; 4) normal distributions; 5) probability; 6) univariate and bivariate data analysis; 7) correlation and regression; and 8) related topics. *The students are expected to have a graphing calculator with statistical capabilities.*

ONLINE STATISTICS (M313OL)

1 Credit

Prerequisite: Algebra II and Geometry

This is the same course that is offered face-to-face, however students will be permitted to complete and submit work online. This course will include weekly video tutorials and demonstrations that students are expected to watch and then complete accompanying tasks at their own pace. Class attendance is not required for students that maintain the minimum required grade. Similar to the face-to-face class, this course will focus on the study of data and the conclusions drawn from that data. In this course, students are introduced to descriptive statistics, which provides a basis for the study of inferential statistics. The students learn: 1) data collection and organization; 2) graphing techniques; 3) measures of center and spread; 4) normal distributions; 5) probability; 6) univariate and bivariate data analysis; 7) correlation and regression; and 8) related topics. *The students are expected to have a graphing calculator with statistical capabilities.*

AP STATISTICS (M313AP)

1 Credit

Students must have completed or are currently enrolled in Precalculus.

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This elective course is a college-level course normally taken in conjunction with Pre-Calculus or AP Calculus. The course introduces all topics on the Advanced Placement Exam including: 1) the exploration of data through graphical displays; 2) analysis of univariate and bivariate data (both linear and nonlinear); 3) correlation and regression; 4) planning a study; 5) probability and simulation; 6) normal, binomial, geometric, student, and X² distributions; 7) sampling distributions; 8) confidence intervals; and 9) tests of significance. *The students are expected to have a graphing calculator with statistical capabilities*

PSAT/SAT/ACT MATH PREP (M314)

0.5 Credit

This course will review basic concepts and practice math test-taking skills to help prepare for the PSAT/SAT/ACT tests. The main purpose of this course is to prepare you, the student, for the PSAT/SAT/ACT math test.

COLLEGE-READY MATHEMATICS (M317)

1 Credit

Grade 12

Prerequisite: Students will be selected by PSAT math scores, Keystone Algebra Exam scores, and counselor/teacher recommendation.

The course is designed to prepare almost-proficient students for college algebra by specifically identifying and addressing the prerequisites of Northampton Community College's Math 026 course. Students will complete mathematics coursework to prepare for the transition from NASD to college. Students will use both real and complex numbers to explore the following topics: solving linear, polynomial, absolute value, and radical equations; inequalities, graphing functions, problem solving, solving systems of linear equations, operations using and simplifying exponents, factoring polynomials, and simplifying rational and radical expressions. Completion of this course with a 73% final average could qualify for 1 college credit at Northampton Community College.

MUSIC

CONCERT BAND (AH820)

1 Credit

Prerequisite: Play the following instruments: Flute, Oboe, Bassoon, Clarinet, Saxophone, Trumpet, French Horn, Trombone, Baritone, Tuba, Snare Drum, Xylophone, Marimba, Timpani

This course serves as a major source of instruction for all band members. Therefore, students who plan on being members of the High School Band are strongly encouraged to enroll in this course. The grading is based on individual student performance and improvement. The members are required to play selected passages from concert material. The students who take this course receive credit for their instrumental music experiences. The students who are members of both the Band and Orchestra are required to practice with both ensembles. The rehearsals are scheduled on alternate days in order to accommodate this.

ORCHESTRAL MUSIC (AH821)

1 Credit

Prerequisite: Play and read music for the following instruments: Violin, Viola, Cello, String Bass, Piano & Percussion

This course serves as a major source of instruction for all high school orchestra members. Therefore, students who plan on being members of the High School Orchestra are strongly encouraged to enroll in this course. The grading is based on individual student participation, preparation, and performance through assessment. The members are required to play selected passages from performance material with weekly sight-reading also being an integral part. Music is distributed according to the ability and playing level of the student. The students who take this course receive credit for their instrumental music experiences.

CHORUS (AH822) FULL YEAR

1 Credit

This is a singing course available to all students. Members of this ensemble will sing various styles of music together. No prior musical skills required. There are two evening rehearsals and two evening concerts per school year where attendance is required. This course may be repeated each year for credit.

CHORUS (AH823) SEMESTER

0.5 Credit

This is the same course, but students only take it for one semester.

ROCKIN' OUT (AH828)

0.5 Credit

This semester course is designed to trace the history of rock music from its roots in the 1950's, up to current rock music. This course introduces: 1) The Eruption of Rock 'n' Roll; 2) The Reaction to Rock 'n' Roll; 3) Popular Music and Political Culture (The 60's) Punk; 4) Disco; 5) Music Videos; 6) Rap; 7) Metal; and 8) Alternative. The students discuss lyrics, performers, and social issues that are part of this genre of music.

SONGWRITING MADE EASY (AH829)

0.5 Credit

Do you struggle to read music? Have you always wanted to write your own songs? This is the class for you! In this semester course you will learn everything you need to know to read and write music. No prior musical skills required. By the end of the course you will write several original compositions.

iSING (AH833)

0.5 Credit

This class is open to all students who are willing to sing in front of others on a daily basis.

Do you love singing along with all your favorite songs? Would you like more time during the school day to sing and improve your voice? Take this semester course and learn how to sing with a good tone and expand your vocal range. Learn different warm-up techniques using proper posture and breathing. In this class you will be singing all different styles of music in a friendly, low-pressure environment. If you love to sing, this is definitely the class for you!

SCIENCE

PREREQUISITE FOR HONORS/AP CLASSES:

An average of 90% is required when moving from CP to Honors or AP.

An average of 80% is required when moving from Honors to Honors or AP.

An average of 80% is required when moving from AP to Honors or AP.

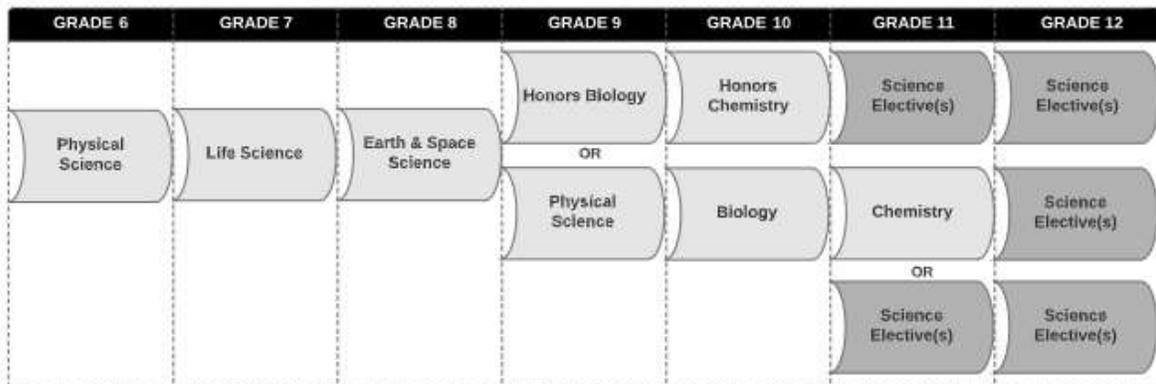
Courses may also have additional prerequisites listed in the descriptions.

All AP Courses require completion of summer work. No AP courses may be dropped after June 30.

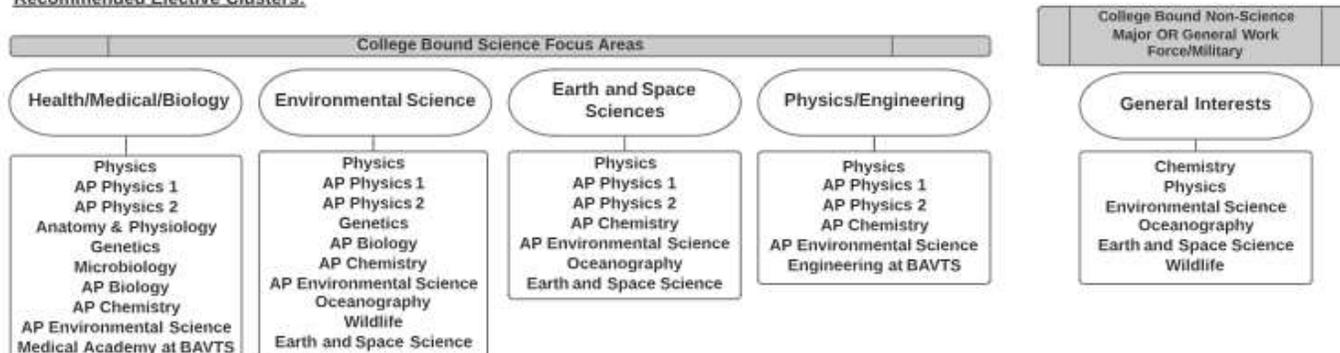
NASD SECONDARY SCIENCE COURSE PROGRESSION



Below are suggested course progressions. They can be modified based on student needs.



Recommended Elective Clusters:



**All prerequisites and minimum grade requirements must be met to proceed through the course progression.*

PHYSICAL SCIENCE (S400)

1 Credit

Required course for Grade 9 students unless enrolled in Honors Biology

In this course the students learn the principles of Physical Science that are examined through numerous student laboratory activities and class demonstrations. The scientific method is applied for student discovery of Physical Science principles in order to promote creative and critical thinking. Emphasis is placed on investigating the chemical and physical properties of matter and the interaction of these properties for technological understanding. A conceptual approach is used to study force and motion, Newton's laws of motion, elements and their characteristics, compounds and bonding, chemical reactions, solutions, and acids and bases.

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BIOLOGY (S401)**1 Credit*****Required course for all students***

This course is an introductory science course for **all** high school students. The students study cell structure, biochemistry, genetics, evolution, plant and animal systems, and ecology. At the conclusion of this course, students are required to take the Keystone Biology Exam.

HONORS BIOLOGY (S401H)**1 Credit**

Prerequisite: This course is intended for highly motivated students with an interest in a science-related career. Students must have completed Algebra I to continue with the High School Science sequence.

This course is designed for students with an interest in pursuing a career in the sciences. By taking Honors Biology in 9th grade, rather than 10th, students are accelerated one (1) year and are expected to follow the honors sequence throughout high school. This course enables the students to schedule advanced placement (AP) and elective courses in science. The students learn the concepts of cells, biochemistry, evolution, and plant and animal systems. The course also introduces units on ecology and genetics. At the conclusion of this course, students are required to take the Keystone Biology Exam.

AP BIOLOGY (S401AP)**1.2 Credits**

Prerequisite: Biology, Algebra II, Concurrent or completed enrollment in Chemistry

This advanced course is designed for college-bound students interested in pursuing Biology or a related science major. The course content is patterned after a first level college biology course with emphasis on lecture and laboratory activities. The students study cell structure, biochemistry, genetics, evolution, plants, animals, and ecology. There are two double laboratory periods for experimental work each cycle. The students are eligible to take the AP examination. *It is recommended to take this course directly after having completed Honors Biology and concurrently with Chemistry or Honors Chemistry.*

CHEMISTRY (S402)**1 Credit**

Prerequisite: Biology, Algebra II or Geometry

This course is a study of the basic principles of chemistry: 1) atomic structure; 2) stoichiometry; 3) reactions; 4) solutions; 5) bonding; 6) nomenclature and formula writing; 7) mass relationships; and 8) acids/bases. This course is designed for the college-bound student who is interested in the sciences. There is emphasis on the math of chemistry. One laboratory period for experimental work is included each cycle. Students are expected to have a scientific calculator.

HONORS CHEMISTRY (S402H)**1 Credit**

Prerequisite: Biology, Algebra II or Geometry

This advanced course is a quantitative in-depth study of the basic principles of chemistry: 1) atomic structure; 2) stoichiometry; 3) reactions; 4) solutions; 5) bonding; 6) nomenclature and formula writing; 7) mass relationships; 8) acids/bases. 9) energy; and 10) periodicity. The student is expected to articulate, understand, apply, analyze, and synthesize the theories and principles discussed in class. Strong math skills and logic are required. One laboratory period is included for experimental work each cycle. Students are expected to have a scientific calculator.

AP CHEMISTRY (S402AP)**1.2 Credits**

Prerequisite: Chemistry

This college-level course is a quantitative, in-depth study of advanced chemistry topics. The course is designed for the college-bound students who plan careers in chemistry, pharmacy, engineering and/or medicine. The students study: 1) chemical thermodynamics; 2) bonding; 3) solution chemistry; 4) equilibrium; 5) kinetics; 6) oxidation-reduction; and 7) electrochemistry. This course has laboratories and class material similar to a college-level general science course. There are two double laboratory periods for experimental work each cycle. The students are eligible to take the AP examination.

PHYSICS (S403)**1 Credit**

Prerequisite: Algebra II

This course is designed to introduce the students to the history of: 1) physics; 2) measurement systems and techniques; 3) linear motion; 4) vector addition and subtraction; 5) rotational mechanics; 6) Newton's Laws; 7) momentum; 8) energy; and 9) other topics found in college-level algebra-based physics courses. The students need to understand the course concepts with minimal reliance on mathematical skills. The course contains a laboratory component for experiments. This course is designed for students who like the sciences and can major or minor in them in college.

HONORS PHYSICS I (S403H)**1 Credit**

Prerequisite: Successful completion of Algebra II

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This advanced course is an in-depth study of the history of physics, measurement systems and techniques, linear motion, vector addition and subtraction, rotational mechanics, Newton's laws, momentum, energy, and other topics found in college-level algebra-based physics courses. The course is designed to develop the college-bound student's ability to solve complex real-world problems using both physics and mathematical concepts. There is an extensive laboratory component for experiments. This course is for students who plan to major in engineering, science, or math.

AP PHYSICS I (S403AP)

1.2 Credits

Prerequisites: Currently enrolled in Precalculus

AP Physics I is a year-long algebra based AP Physics class. This class will provide students sufficient time to acquire an unparalleled level of conceptual understanding, by way of a student-centric, inquiry-based learning experience. AP Physics I is the first year of this two year curriculum which will cover all topics found in a typical college introductory physics course. Laboratory investigation focused on developing critical thinking and reasoning skills, along with traditional classroom assessments, will be the primary assessment tools used during the year. Topics of study include: kinematics, Newton's laws of motion, rotational motion, gravitation and circular motion, work, energy, power, momentum, waves and sound, and DC circuits.

AP PHYSICS II (S404AP)

1.2 Credits

Prerequisites: AP Physics I; Completed or currently enrolled in Pre-Calculus.

AP Physics II is the second year of a two-year algebra based curriculum, which covers all topics found in a typical introductory college physics course. AP Physics II will continue to develop the skills needed to succeed not only in physics, but also in the college classroom. Laboratory investigation focused on developing critical thinking and reasoning skills, along with traditional classroom assessments, will be the primary assessment tools used during the year. Topics of study include: fluid statics and dynamics, thermodynamics, pressure-volume diagrams and probability, electrostatics, circuits and capacitors, magnetic fields, electromagnetism, and modern physics.

AP ENVIRONMENTAL SCIENCE (S405AP)

1.2 Credits

Prerequisite: Biology, Chemistry

This is an advanced placement course designed for the college-bound students. The students need a strong science background. The goal of the course is "to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world," and to enable the students to analyze, interpret, evaluate, and discuss environmental problems and solutions. There are two double laboratory periods for experimental work each cycle. The students are eligible to take the AP examination.

HONORS ANATOMY AND PHYSIOLOGY (S406H)

1 Credit

Prerequisite: Completed Honors Chemistry or Chemistry

This course will examine an in-depth introduction to a comparative anatomy and physiology through the use of dissections. The course is designed for the students interested in the medical professions such as doctors, registered nurses, and physical therapists. The students will study the following body systems; Skeletal, Muscular, Nervous, Somatic, Endocrine, Digestive, Respiratory, Cardiovascular, Lymphatic, Urinary and Reproductive. **PLEASE NOTE THAT THIS COURSE INVOLVES DISSECTIONS.**

EARTH/SPACE SCIENCE (S408)

0.5 Credit

This semester course highlights the interconnection between the five earth systems: 1) geosphere; 2) hydrosphere; 3) atmosphere; 4) astronomy; and 5) biosphere. Special emphasis is placed on the human impact on natural resources and global change. This "life-long learning" science course provides the student with useful, practical information that sparks his/her interests in many previously "taken-for-granted" natural occurrences and phenomena. The course is a foundational course for the college-bound students interested in studying the sciences. The students use computers in class for research to enhance and support their learning.

AM EARTH/SPACE SCIENCE (S408A)

0.5 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM EARTH/SPACE SCIENCE (S408P)

0.5 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

ONLINE EARTH/SPACE SCIENCE (S408OL)

0.5 Credit

This is the same course as above but offered as an online class.

OCEANOGRAPHY (S409)

0.5 Credit

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This half-year course provides an overview of the study of the marine environment and the life that exists there. This course introduces: 1) the origins of the ocean; 2) the chemical, physical, and geological aspects of the marine environment; 3) the ecology of various sea zones; and 4) the interrelationships between man, marine life, and the ocean. Your next trip to the sea shore is likely to take on a whole new meaning! This investigatory, experimental, and technology-driven science course provides the student with useful, practical information that should spark his or her interests in many previously “taken-for-granted” natural occurrences and phenomena. This course can lay a solid foundation for any student who may be interested in studying the sciences, particularly marine science in the future, professionally or otherwise.

AM OCEANOGRAPHY (S409A)

0.5 Credit

This is the same course as above but offered before school from 6:37 to 7:20 Monday through Friday.

PM OCEANOGRAPHY (S409P)

0.5 Credit

This is the same course as above but offered after school from 2:32 to 3:25 Monday through Thursday.

ONLINE OCEANOGRAPHY (S409OL)

0.5 Credit

This is the same course as above but offered as an online class.

GENETICS (S411)

1 Credit

Prerequisites: Biology; Completed or currently enrolled in Chemistry.

This course will review the detailed principles of cell structure and function, Mendelian genetics, DNA Replication, and Transcription and Translation. The topics of cloning, biotechnology, and genetic engineering will be looked into and students will be expected to develop debates and discussions on these topics and how the topics currently relate to world issues. There will be a lab component to the course when time allows.

ECOLOGY (S412)

0.5 Credit

Prerequisite: Biology

This course is an introduction to major ecological concepts and environmental problems, which affect our world. The students study the areas of ecology, populations, and different ecosystems, as well as how they are interrelated. This course is designed for all students, whether college-bound or not.

PEOPLE, SCIENCE, AND THE ENVIRONMENT (S413)

0.5 Credit

Prerequisite: Biology

This in-depth environmental science course examines how people use science to understand how they relate to the environment. The course explores relationships between people and ecosystems, water, air, land, atmosphere, mining, non-renewable and renewable resources. It reviews the historical development of the environmental movement, interactions between humans and natural ecosystems, and more specifically, the role of a growing population and associated pressures on natural resources.

HONORS MICROBIOLOGY (S414H)

1 Credit

Prerequisite: 90% in Biology or 80% in Honors Biology

This elective course is designed to give students a foundational background of the subject in preparation for the course at the collegiate level. It is geared towards students pursuing careers in nursing, physician’s assistant, physician, and medical-laboratory technology fields. The course explores the major topics of microbiology, including prokaryotic and eukaryotic cellular structure and physiology, bacteriology (types of bacteria, their evolution, resistance, habitat, life cycle, and immunology). We also explore the topics of viruses, parasitology, and immunology. The hands-on laboratories are designed to give the students training of microbiological techniques that are used in real laboratory and industry settings

PENNSYLVANIA WILDLIFE AND HABITAT (S417)

0.5 Credit

Prerequisite: Biology; Students who do not enroll in Chemistry must enroll in Environmental Science

Grades 11-12

This course is an introduction to the wildlife and habitat of the state of Pennsylvania. The focus of this course will be on the following topics: sustainable forestry, natural resources, water, earth sciences, and wildlife. Students will study the management of renewable wildlife resources by applying ecological concepts, habitat evaluation, and decision-making.

SOCIAL STUDIES

PREREQUISITE FOR HONORS/AP CLASSES:

An average of 90% is required when moving from CP to Honors or AP.

An average of 80% is required when moving from Honors to Honors or AP.

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An average of 80% is required when moving from AP to Honors or AP.
 Courses may also have additional prerequisites listed in the descriptions.
All AP Courses require completion of summer work. No AP courses may be dropped after June 30.

Please note that the general course progression for the Traditional Academic and Honors and Advanced graduation tracks require the following:

- Grade 9: United States History II or Honors United States History II
- Grade 10: United States History III or Honors United States History III or AP United States History
- Grade 11: Civics and Government or Honors Civics and Government or AP United States Government or AP Microeconomics or AP Macroeconomics
- Grade 12: Any social studies elective

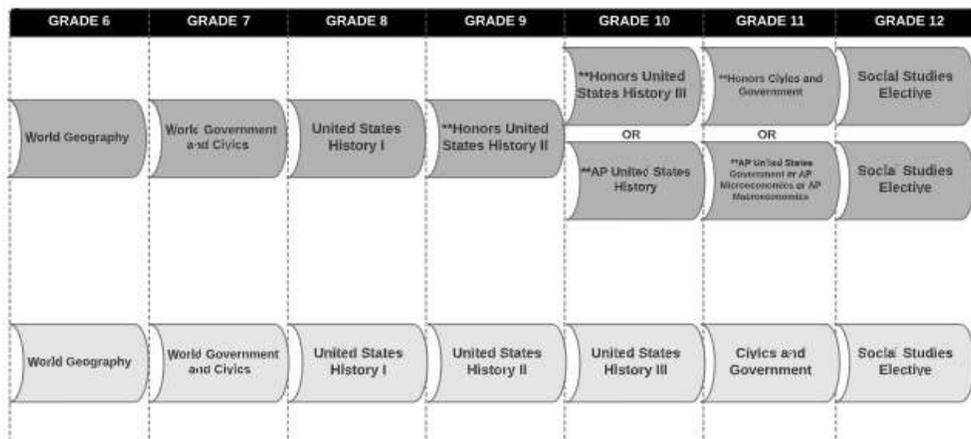
Please note that the general course progression for the Career and Technical graduation track requires the following:

- Grade 9: United States History II or Honors United States History II
- Grade 10: United States History III or Honors United States History III or AP United States History *or no course due to vocational school schedule*
- Grade 11: Civics and Government or Honors Civics and Government or AP United States Government or AP Microeconomics or AP Macroeconomics or United States History III or Honors United States History III or AP United States History *if the student did not take United States History III in grade 10*
- Grade 12: Civics and Government or Honors Civics and Government or AP United States Government or AP Microeconomics or AP Macroeconomics *if the student did not take Civics and Government in grade 11* or any social studies elective

NASD SECONDARY SOCIAL STUDIES COURSE PROGRESSION



Below are suggested course progressions. They can be modified based on student needs.



Recommended Social Studies Electives
 Psychology or Honors Psychology or AP Psychology
 Sociology or Honors Sociology
 Modern Global History or AP European History
 Criminal and Civil Justice
 Discovering Global Perspectives

*Students are required to complete US History 2 (or Honors US History 2), US History 3 (or Honors US History 3 or AP US History), and Civics and Government (or AP Government, AP Microeconomics, or AP Macroeconomics).
 **All prerequisites and minimum grade requirements must be met to proceed through the course progression.

UNITED STATES HISTORY II (H202)

1 Credit

United States History II examines the development of our nation from the War of 1812 through the closing of the frontier and the end of the 19th Century. The students study: 1) 1st Industrial Revolution 2) Western Expansion 3) Civil War and Reconstruction 4) settlement of the frontier and the 2nd Industrial Revolution 5) Spanish-American War 6) Progressive Era to 1914.

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HONORS UNITED STATES HISTORY II (H202H)**1 Credit**

This course examines in depth the development of our nation from the War of 1812 through the closing of the frontier and the end of the 19th Century. The students study: 1) 1st Industrial Revolution 2) Western Expansion 3) Civil War and Reconstruction 4) settlement of the frontier and the 2nd Industrial Revolution 5) Spanish-American War 6) Progressive Era to 1914. The students are required to complete projects and research to enhance their learning.

UNITED STATES HISTORY III (H227)**1 Credit**

Students will study our nation's history, from 1914 through the 1990's and 21st Century America. They will examine the Great War, the Roaring Twenties, the Great Depression, World War II, the emergence of the Cold War. In addition, students will explore cultural changes that occurred between the 1950's and the 1990's and 21st Century America. The class will analyze how these past events shaped the world in which they live.

HONORS UNITED STATES HISTORY III (H227H)**1 Credit**

This course examines in depth the Great War, the Roaring Twenties, the Great Depression, World War II, and the emergence of the Cold War. In addition, students will explore cultural, political and social changes that occurred from the 1950s and 60s through the 1990s and 21st Century America. The class will analyze how these past events shaped the world in which they live. Students will research, analyze, and discuss current events, complete outside readings, and complete and present assigned projects.

CIVICS AND GOVERNMENT (H226)**1 Credit**

This year long course will study the rights and duties of citizenship, the structure and interaction of branches of government, the political process, and how individuals and nations make choices about ways to use limited resources to fulfill their wants and needs. It is intended to help students build the basic foundation to become a productive and participatory citizen. The course is required of juniors unless taking Honors Civics, AP Government, or AP Microeconomics or AP Macroeconomics. The course does not preclude a student from taking AP Government and/or Economics their senior year.

HONORS CIVICS AND GOVERNMENT (H226H)**1 Credit**

This year long course will study the rights and duties of citizenship, the structure and interaction of branches of government, the political process, and how individuals and nations make choices about ways to use limited resources to fulfill their wants and needs. It is intended to help students build the basic foundation to become a productive and participatory citizen. Additional reading, research, and assignments will be required. The course is intended for juniors, but does preclude a student from taking AP Economics simultaneously, or AP Government and/or Economics their senior year.

AP UNITED STATES GOVERNMENT (H203AP)**1 Credit**

AP U.S. Government is a college-level course that not only seeks to prepare students for success on the AP Exam in May, but also provide students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society. It is important to note that this course is not a history course; it is a political science course that studies the interconnectedness of the different parts of the American political system and the behaviors and attitudes that shape this system and are the byproduct of this system. A Civic Engagement Project will be embedded to connect course content to a contemporary issue of interest to students.

AP UNITED STATES HISTORY (H205AP)**1.1 Credits**

Prerequisite: Grade 9 students must score Advanced on their PSSA ELA exam.

Advanced Placement United States History (APUSH) is an intensive year long course that aims to thoroughly prepare students for the AP exam. This course examines American History from the pre-colonization era to the present-day and is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. APUSH aims to prepare students for intermediate and advanced level college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials, arrive at informed conclusions, and clearly demonstrate this knowledge in essay format. *Students will be required to attend a writing lab once per cycle.*

AP EUROPEAN HISTORY (H207AP)**1.1 Credits**

Grades 11-12

Prerequisite: 80% or greater in previous English class; successful completion of Modern Global History

This advanced course provides the college-bound student with a solid foundation in European history. The students study European history from 1450 to the present, focusing on religious, social, economic, and political themes. The students read, analyze, interpret, discuss, and write essays and research papers. The students need to be independent workers and thinkers, motivated, and want to

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continue studying History. The student is eligible to take the AP examination. *Students will be required to attend a writing lab once per cycle.*

MODERN GLOBAL HISTORY (H208)

0.5 Credit

This semester course is designed for students to study the concept of revolution, not just through the study of war, but the sudden change of ideas, institutions and society over time. Students will learn how our current society emerged from the tumultuous Renaissance, the schism of religion and the abandonment of royal authority in favor of democratic rule. Students will need to identify relationships and discuss how past and present historical events and concepts affect the world today.

ONLINE MODERN GLOBAL HISTORY (H208OL)

0.5 Credit

Students will be permitted to complete and submit work online. The course includes weekly modules. Students are permitted to complete tasks at their own pace allowing for greater flexibility for students that wish to hold a job as they may be allowed to come to school late or leave school early. Class attendance is not required for students that maintain the minimum required grade. This semester course covers the same topics that are covered in Modern Global History (H208).

HONORS MODERN GLOBAL HISTORY (H208H)

0.5 Credit

This advanced semester course provides the college-bound student with a solid foundation in History. This course surveys the history of the world since 1789. The students concentrate on the important historical events of the Twentieth Century: 1) World War I; 2) the Rise of Fascism and Totalitarianism; 3) the Communist Revolution; 4) World War II; and 5) the World in Change - 1945 to present. The students need to identify relationships and discuss how past and present historical events and concepts affect the world today.

PSYCHOLOGY (H209)

0.5 Credit

Grades 11-12

This semester course introduces students to major psychological theories. The focus of this course is to have students develop a better understanding of their own behaviors and the behaviors of others. The students will study theories on memory, study skills, intelligence, motivation, learning, sleep, dreams, personality, and psychological disorders. Students will learn skills and techniques can be applied in everyday life.

ONLINE PSYCHOLOGY (H209OL)

0.5 Credit

Grades 11-12

Students will be permitted to complete and submit work online. The course includes weekly modules. Students are permitted to complete tasks at their own pace allowing for greater flexibility for students that wish to hold a job as they may be allowed to come to school late or leave school early. Class attendance is not required for students that maintain the minimum required grade. This semester course covers the same topics that are covered in Psychology (H209).

HONORS PSYCHOLOGY (H209H)

0.5 Credit

Grades 11-12

In this advanced semester course the students will learn and examine in depth, more psychological theories that explain intelligence, cognition, consciousness, mental health, and personality. The student is required to participate in library research and outside of class readings. Additionally, students will participate in several written assignments and oral projects.

ONLINE HONORS PSYCHOLOGY (H209HOL)

0.5 Credit

Grades 11-12

Students will be permitted to complete and submit work online. The course includes weekly modules. Students are permitted to complete tasks at their own pace, allowing for greater flexibility for students that wish to hold a job as they may be allowed to come to school late or leave school early. Class attendance is not required for students that maintain the minimum required grade. This semester course covers the same topics that are covered in Honors Psychology (H209H).

AP PSYCHOLOGY (H209AP)

1 Credit

Grades 11-12

This advanced course is designed to introduce college-bound students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Psychological principles apply to various fields of study. They also learn about the ethics and methods psychologists use in their science and practice. The students are eligible to take the AP examination. Students that have a background in AP Biology and/or AP Statistics will have background knowledge beneficial to this course.

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SOCIOLOGY (H210)**0.5 Credit****Grades 11-12**

In this semester course students will gain a better understanding of social diversity. Sociological concepts such as cultural differences, deviant behavior, and racial and ethnic relations within a society are studied in depth. A focus on adolescence as a life stage are explored which include topics such as dating, drug addiction, teenage pregnancy and suicide. The student is required to participate in library research, oral presentations, and assigned projects. Several outside presentations will be offered on related sociological problems throughout the semester.

HONORS SOCIOLOGY (H210H)**0.5 Credit****Grades 11-12**

In this advanced semester course the students learn and examine in-depth sociological concepts, principles, theories, and methods. The student is required to participate in library research and outside of class readings. Each student is required to complete a major written and oral project.

CRIMINAL AND CIVIL JUSTICE (H212)**0.5 Credit**

Are you interested in a law-related profession, or just curious about the legal system? This semester course provides an introductory survey of our criminal and civil justice system. Students will gain practical insights into the workings of the legal system. Students will examine an introduction to law, study crimes against persons, property, and drug laws, examine tort law, and learn the basics of family law. Guest speakers allow opportunity to interact with real world professionals, and a mock trial allows for a hands-on look at the role of attorneys, witnesses, and jurors.

DISCOVERING GLOBAL PERSPECTIVES (H213)**0.5 Credit**

In this semester course the students learn about news-making events and issues in today's world, from such countries as, Russia, China, the Middle East, and other news hot spots. The students study the culture, politics, and geography of these countries. The students learn to have a better understanding of diversity.

AP MICROECONOMICS (H224AP)**1 Credit****Grades 11-12**

Prerequisite: 90% or greater in Algebra II (or 80% at the Honors level)

Students need to be proficient in solving linear equations. This course is an advanced placement course for the college-bound student. Microeconomics looks at the smaller picture and focuses more on basic theories of supply and demand, how product and resource markets are organized, and how individual businesses decide how much of something to produce and how much to charge for it. Students who have any desire to start their own business, who want to major in business, or who want to learn the rationale behind the pricing of particular products and services would be more interested in this area.

AP MACROECONOMICS (H225AP)**1 Credit****Grades 11-12**

Prerequisite: 90% or greater in Algebra II (or 80% at the Honors level)

Students need to be proficient in solving linear equations. This course is an advanced placement course for the college-bound student. Macroeconomics looks at the big picture (hence "macro"). It focuses on the national economy as a whole and provides a basic knowledge of how things work in the business world. For example, students who study this branch of economics would be able to interpret the latest Gross Domestic Product figures or explain why a 6% rate of unemployment is not necessarily a bad thing. Emphasis will be on how government utilizes fiscal and monetary policy in order to manipulate the economy.

SPECIAL EDUCATION

Special Education services are provided at the high school based on individual needs identified in the student's IEP. There is a continuum of services from in-class support to academic special education general courses. Course selections are chosen by graduation plans and developed at the IEP team meeting. All Special Education students have the opportunity to participate in the Bethlehem Area Vocational-Technical School. There are many levels of Special Education intervention. The interventions are based on the degree of the student's need for specially designed instruction (SDI). Adaptations and accommodations to the regular education curriculum are provided through the itinerant support program. To receive these services the student is assigned to a Special Education teacher who monitors his/her success in the regular education classes and provides needed support.

GENERAL A COURSES - General A Courses adapt instruction from the standards-aligned curriculum based on the student's learning needs.

GENERAL B COURSES - General B Courses provide instruction from the standards-aligned curriculum through modified academics.

GENERAL KEYSTONE COURSES - General Keystone Courses prepare students for the Keystone examinations over a successive 2 year period.

GENERAL ENGLISH A (G100)

1 Credit

The General English A course focuses on reading, writing, and speaking skills in alignment with the state standards and alternative assessment standards. Students learn a variety of reading strategies to improve comprehension, understanding, and interpretation of reading materials. Focus on functional writing and reading skills in the area of career awareness and independent living skills occur within the curriculum.

GENERAL SOCIAL STUDIES A (G200)

1 Credit

The General Social Studies A course is aligned with state standards and modified to meet the needs of the individual learner. The course runs on a 4-year rotation that includes the following curricula: US History and Civics and Government.

GENERAL MATH A (G300)

1 Credit

The General Math A course follows a progression of mathematical topics: 1) Numbers and Operations; 2) Measurement; 3) Geometry; 4) Algebra; 5) Statistics and Data Analysis and Probability; 6) Problem Solving, 7) Communication; 8) Mathematical Reasoning; and 9) Connections.

GENERAL SCIENCE A (G400)

1 Credit

The General Science A course is aligned with state standards and modified and adapted to meet the needs of the individual learner. The basic science principles are taught. The course covers the following curriculum over a 4-year rotation: Physical Science, Earth Science, Biology, and PA Wildlife & Habitat.

GENERAL KEYSTONE ENGLISH PART I (G103K)

1 Credit

The General Keystone English course focuses on reading, writing, and speaking skills in alignment with the state standards and the 9th and 10th Grade English Curricula. The students learn a variety of reading strategies to improve comprehension, understanding, and interpretation of reading materials. The literature studied includes short stories, poetry, drama, novels, and nonfiction. The students practice writing skills using narrative, persuasive, and informative papers. The students also study and practice vocabulary, grammar, and sentence structure. This course will assist in preparing students for the Keystone Literature examination.

GENERAL KEYSTONE ENGLISH PART II (G104K)

1 Credit

This is a continuation of General Keystone English Part I. This course will assist in preparing students for the Keystone Literature examination.

GENERAL ENGLISH B (G101)

1 Credit

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The General English B course provides an adapted instruction of the Career English 11 and 12 courses. It offers an introduction to the career options for the student who is interested in pursuing a technical career and/or trade school immediately after high school. Introduction to technical writing and reading that is aligned with a career track as well as introducing students to topics and skills that will help aid them in obtaining and maintaining a career. More traditional literature will also be presented to expose students to various texts and maintain a well-rounded education. Practice in improving communication skills and building a strong vocabulary will also be part of the course curriculum.

GENERAL KEYSTONE MATH PART I (G303K) 1 Credit

General Keystone Math consists of a structured approach to a variety of topics such as ratios, percentages, equations, inequalities, algebra, geometry, graphing and probability. Guided problem solving strategies throughout the text provide students with the tools they need to be effective and independent learners. This course will assist in preparing students for the Keystone Algebra I Exam.

GENERAL KEYSTONE MATH PART II (G304K) 1 Credit

This is a continuation of General Keystone Math Part I. This course will assist in preparing students for the Keystone Algebra I examination.

GENERAL MATH B (G301) 1 Credit

General Math B consists of a structured approach to a variety of topics such as ratios, percentages, equations, inequalities, algebra, geometry, graphing and probability. Guided problem solving strategies throughout the text provide students with the tools they need to be effective and independent learners.

GENERAL KEYSTONE SCIENCE PART I (G403K) 1 Credit

The General Keystone Science course parallels the regular education Science curriculum. The students study Physical Science, Biology, Chemistry, and Ecology. The students apply the science principles to class work and experiments. This course will assist in preparing students for the Keystone Biology Exam.

GENERAL KEYSTONE SCIENCE PART II (G404K) 1 Credit

This is a continuation of General Keystone Science Part I. This course will assist in preparing students for the Keystone Biology examination.

GENERAL SCIENCE B (G401) 1 Credit

The General Science B course is 2-year rotation of Earth Science and Physical Science, which are aligned with state standards and parallel with the regular education curriculum. Modification and accommodations occur within the curriculum based on the students' needs.

TRANSITION FROM SCHOOL TO COMMUNITY (G608) 0.5 Credit

Transition from School to Community is an integrated, asynchronous curriculum that collaborates with the various transitional programs (Community Work-Based Learning Program through IU21, etc.) students may be participating in to address their IEP transitional outcomes. The curriculum is individualized to address specific students' needs in reference to career awareness, self-awareness, independence skills, social interaction, problem-solving, health, and self-care. Utilizing the real-life challenges that the student may be encountering in school, in the workplace, in the community, and in the home will enhance their ability to maintain a positive and productive, healthy and enjoyable lifestyle. Collaborative relationships with school personnel and outside agencies will ensure these skills occur.

ADAPTIVE PHYSICAL EDUCATION (G702PE) 0.5 Credit

The students who currently have an Individualized Education Program (IEP) may be eligible for this semester course adaptation. The IEP team determines the appropriateness of this course.

LIFE SKILLS SUPPORT (G800) 1 credit

Individualized courses to address specific students' needs based upon goals set forth in the student's IEP to address their Independent Living and transitional needs. Courses offered within this cluster include the following: Classroom Community, Independent Living Skills, Independent Living Math, and Work Community.

WORLD LANGUAGES

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PREREQUISITES FOR HONORS/AP CLASSES:

An average of 90% is required when moving from CP to Honors or AP.

An average of 80% is required when moving from Honors to Honors or AP.

An average of 80% is required when moving from AP to Honors or AP.

Courses may also have additional prerequisites listed in the descriptions.

All AP Courses require completion of summer work. No AP courses may be dropped after June 30.

FRENCH I (AH500)**1 Credit**

This beginner level course provides an introduction to the target language and culture. The most important goals are to enable the students to use the target language to communicate and develop cultural awareness. The course develops the four language skills of listening, reading, writing, and speaking through the use of authentic resources and real world scenarios.

FRENCH II (AH501)**1 Credit**

This course continues to provide students with a sound basis for learning the target language to communicate and develop cultural awareness. The course builds on the four language skills of listening, reading, writing, and speaking skills already acquired in Level I through the use of authentic resources and real world scenarios.

FRENCH III (AH502)**1 Credit**

This intermediate level course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. The students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios.

HONORS FRENCH IV (AH503H)**1 Credit**

Prerequisite: 80% or higher in Level III

This advanced course is designed for motivated and/or college-bound students who want to learn the target language in depth at an accelerated rate. This course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. Students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios. There is a high expectation to communicate in the target language daily.

AP FRENCH LANGUAGE AND CULTURE (AH516AP)**1 Credit**

The AP French Language and Culture course emphasizes active communication using authentic scenarios. This college level course focuses on developing the students' abilities in the three modes of communication (Interpretive, Interpersonal, and Presentational) and strengthening the students' cultural competencies through theme-based instruction based on a variety of authentic resources. This language course will be conducted mostly in the target language daily.

GERMAN I (AH504)**1 Credit**

This beginner level course provides an introduction to the target language and culture. The most important goals are to enable the students to use the target language to communicate and develop cultural awareness. The course develops the four language skills of listening, reading, writing, and speaking through the use of authentic resources and real world scenarios.

GERMAN II (AH505)**1 Credit**

This course continues to provide students with a sound basis for learning the target language to communicate and develop cultural awareness. The course builds on the four language skills of listening, reading, writing, and speaking skills already acquired in Level I through the use of authentic resources and real world scenarios.

GERMAN III (AH506)**1 Credit**

This intermediate level course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. The students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios.

HONORS GERMAN III (AH506H)**1 Credit**

This course is designed for motivated students who want to learn the target language in depth at an accelerated rate. This intermediate level course provides continued development of cultural awareness and the four language skills with an emphasis on active student

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participation in the learning process. The students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios. There is a high expectation to communicate in the target language daily.

GERMAN IV (AH507)

1 Credit

This course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. Students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios.

HONORS GERMAN IV (AH507H)

1 Credit

This advanced course is designed for motivated and/or college-bound students who want to learn the target language in depth at an accelerated rate. This course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. Students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios. There is a high expectation to communicate in the target language daily.

AP GERMAN LANGUAGE AND CULTURE (AH514AP)

1 Credit

The AP German Language and Culture course emphasizes active communication using authentic scenarios. This college level course focuses on developing the students' abilities in the three modes of communication (Interpretive, Interpersonal, and Presentational) and strengthening the students' cultural competencies through theme-based instruction based on a variety of authentic resources. This language course will be conducted mostly in the target language daily.

SPANISH I (AH508)

1 Credit

This beginner level course provides an introduction to the target language and culture. The most important goals are to enable the students to use the target language to communicate and develop cultural awareness. The course develops the four language skills of listening, reading, writing, and speaking through the use of authentic resources and real world scenarios.

SPANISH II (AH509)

1 Credit

This course continues to provide students with a sound basis for learning the target language to communicate and develop cultural awareness. The course builds on the four language skills of listening, reading, writing, and speaking skills already acquired in Level I through the use of authentic resources and real world scenarios.

SPANISH III (AH510)

1 Credit

This intermediate level course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. The students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios.

HONORS SPANISH III (AH510H)

1 Credit

This course is designed for motivated students who want to learn the target language in depth at an accelerated rate. This intermediate level course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. The students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios. There is a high expectation to communicate in the target language daily.

SPANISH IV (AH511)

1 Credit

This course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. Students are expected to demonstrate a higher level of communication in the target language through the use of authentic resources and real world scenarios.

HONORS SPANISH IV (AH511H)

1 Credit

This advanced course is designed for motivated and/or college-bound students who want to learn the target language in depth at an accelerated rate. This course provides continued development of cultural awareness and the four language skills with an emphasis on active student participation in the learning process. Students are expected to demonstrate a higher level of communication in the

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target language through the use of authentic resources and real world scenarios. There is a high expectation to communicate in the target language daily.

AP SPANISH LANGUAGE AND CULTURE (AH515AP)

1 Credit

The AP Spanish Language and Culture course emphasizes active communication using authentic scenarios. This college level course focuses on developing the students' abilities in the three modes of communication (Interpretive, Interpersonal, and Presentational) and strengthening the students' cultural competencies through theme-based instruction based on a variety of authentic resources. This language course will be conducted mostly in the target language daily.

LATIN I (AH512)

1 Credit

Grades 11-12

This course provides an introduction to the phonological, grammatical, and semantic systems in Latin. Students improve analytical skills through the study of vocabulary and by reading increasingly complex stories about an ancient family in Pompeii. Emphasis is placed on the influence that Latin has on the English language through prefixes, suffixes, and root word study. Students partake in discussions about Roman culture, civilization, and mythology.

BETHLEHEM AREA VOCATIONAL-TECHNICAL SCHOOL

Mission Statement

Northampton Area School District is committed to assist every student focus his or her high school education on a realistic post-secondary plan that matches the skills, knowledge, and experience of each individual student.

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About the Program

The driving force behind the Career Pathways program is that every student determines his/her career and educational plan beyond high school. Some students believe that learning ends with high school graduation. This attitude and belief system typically results in a low-paying, unfulfilling job, which in turn can impact the individual's entire well-being. Helping students recognize that they have direct control over the career path they choose is the challenge of Career Pathways. Northampton Area School District is committed to assisting every student focus his or her high school education on a realistic post-secondary plan that matches the skills, knowledge and experience of each individual student. A career path is a broad spectrum of careers that share similar characteristics and for which employment requirements call for common interests, strengths and competencies. The U.S. Department of Education has identified sixteen (16) Career Clusters that were designed to help students focus on an area of interest and possible career path. NASD's Pathways Program combined the clusters to create four broader paths for student exploration and instruction. The four Pathways used by Northampton Area School District are as follows:

 Arts & Communication	 Business & Finance
 Engineering, Science & Technology	 Health & Social Services

It is recommended that students select a Career Pathway during course selection of their 8th grade year. Students will then be able to examine specific careers and post-high school educational programs related to their Pathway. In addition, elective course recommendations will be available to assist parents and students in making course selections that will be most beneficial to their academic and career goals. This information will help students see a connection between what they learn within the classroom, and the skills they need for success in their adult lives, and the work world.

Goals

- To assist each student in determining a career pathway based on interest and ability.
- To provide a variety of course offerings that will prepare students for education/training beyond high school to meet individual career goals.
- To produce students who are responsible democratic citizens, effective communicators, cooperative workers, and skilled problem-solvers.

Rationale

What do you want to be when you grow up? The Pathways Program has been designed to help Northampton Area School District students answer this most important question. Students begin their journey by exploring personal skills, interests and aptitudes through career assessments which supply them with ideas about which one of the four career Pathways might "best fit" their personality.

Entrance into BAVTS

In order to attend BAVTS in 10th Grade, students must have earned 6.0 credits and passed English 9.



To enhance curricular choices for all students, the Bethlehem Area School District proudly partners with Bethlehem Area Vocational-Technical School (BAVTS) to offer hands-on experience and specialized skills in a variety of Career Pathways. Students in grades 10, 11, and 12 have the option of choosing to attend BAVTS part-time, where they can apply the academic knowledge learned at the high school, while refining the technical skills required for college admissions and successful employment.

BAVTS CURRICULUM LEVELS

Start your program at BAVTS in your sophomore, junior, or senior year. If you register as a sophomore, you'll benefit from a full three-year sequence to help you meet your goals.

LEVEL 1 - THE CORE CURRICULUM PROGRAM

A one-year program that rotates four (4) shops is the first year at BAVTS. It is designed to assist students for entry level in a given occupational specific program area. This program is related to the work goals of quality education as established by the Pennsylvania Department of Education. The integrated system for Workforce Education Curriculum will be used to integrate vocational education with academic skills. The CORE curriculum program is delivered through a plan of competency- based instruction and is articulated with the academic areas at Bethlehem, Northampton and Saucon Valley School Districts as well as with each job specific lab. Level 1 students receive a foundation in the occupational departments chosen. This curriculum provides the essential skills and knowledge that apply to an entire occupational area along with related math.

LEVEL 2 - CONTINUATION IN STUDENT SELECTED MAJOR

Students will spend the year focusing on professional skill development in the major selected. Level 2 students work with highly specialized equipment and theories along with higher level math and career studies. A sample of a Level 2 student's BAVTS schedule would involve three periods of the selected major and one period of math.

LEVEL 3 - MASTERY OF PROGRAM MAJOR

Students will continue to refine their skills making it possible for them to be eligible to receive national certification in their field. On-the-job training through apprenticeships and co-op placements are possible opportunities for students at this level. After graduation, preparation received by Level 3 students will enable them to successfully continue on their chosen path - college or work force.

THE ACADEMIES AT BAVTS*

BAVTS offers high achieving students the opportunity to accent their high school schedule by attending one of two (2) honors weighted Academy programs. These programs run yearly in 80 minute blocks, which is approximately 240 hours in length. The offerings begin with Applied Engineering and our collegial association with Lafayette College and Lehigh University, to the Academy for Medical Sciences that spends the second half of the school year training at Lehigh Valley Hospital-Muhlenberg. These public/private partnerships create a wonderful opportunity for student exploration and skill enhancement while enrolled in high school coursework. Academy courses may be taken as independent college preparatory units; Level I courses are not required.

- The Academy for Applied Engineering
- The Academy for Medical Sciences

INTEGRATION INITIATIVE

The Academic Coaches at BAVTS present students with real-life activities, in which integrated academics are included at all levels of instruction. Incorporated in the lessons of each course are cooperative learning exercises, discovery lessons, use of manipulative and application labs. Academic integration strategies are included in all curricula in an effort to support student success on standardized tests, industry related certifications and future career goals.

STATE-OF-THE-ART INDUSTRIAL TRAINING LABS

Advisors from business and industry work closely with our staff to make sure our programs and equipment are up to date. Along with the essential specialized technical and industrial equipment, BAVTS has over 400 computers available for student use in a wide range of applications such as graphic design, video, and engineering.

NTHS (National Technical Honor Society)

NTHS is an honor society for career and technical students who have distinguished themselves in both academic pursuits and career and technical excellence. Membership is by invitation and eligibility is based upon grades at the sending high school, BAVTS and student activities and involvement in the community. Students also need a recommendation from their sending school and their career and technical instructor. Students completing grades 10 and 11 are eligible to be considered for membership.

SKILLS USA

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The SkillsUSA organization is composed of students from the different trade, industrial and health occupation labs in our school. The various programs help students develop leadership qualities through educational, career and technical, civic, recreational and social activities. Excellence in scholarship, craftsmanship, and personal development are encountered through a national achievement program and national competitive activities. The SkillsUSA Championships is the national level competition, and is part of the annual SkillsUSA National Leadership Conference. In the competition, students demonstrate the occupational and leadership skills they have learned in the lab and in the classroom. Members strengthen their leadership and citizenship abilities through interaction with professional, business, and other student organizations.

HOSA

HOSA is an international student organization recognized by the U.S. Department of Education and the Health Science Education (HSE) Division of ACTE. HOSA's two-fold mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. HOSA's goal is to encourage all health science instructors and students to join and be actively involved in the HSE-HOSA Partnership. HOSA provides a unique program of leadership development, motivation, and recognition exclusively for secondary, postsecondary, adult, and collegiate students enrolled in health science education and biomedical science programs or have interests in pursuing careers in health professions. HOSA is 100% health care!

Bethlehem Area Vocational-Technical School Course Descriptions



CARPENTRY-BUILDING TRADES (BT1AM, BT1PM)

4 credits

The Building Trades program involves several different construction disciplines including, but not limited to carpentry, electrical, and masonry. The first year students will be in a hands-on learning environment by working on their skills on a full scale house project in the shop. The students are instructed in all construction fields and will be trained in demonstrating proper work ethic for the building trades industry. The second and third year students will be working on off-site projects in the community. Currently they are working at Illick's Mill and at a Northampton Community College project. At the end of the program, student's mastery of skills will be tested through NOCTI.

CARPENTRY (CRIAM, CRIPM)

4 credits

Students will learn fundamental skills using a variety of wood sizes and numerous tools of the trade. They will create projects ranging from simple, to complete layout and construction of a residential property. The ability to read complex blueprints and measuring to within a tolerance of + or - 1/16th of an inch is required. In this course, the students will use handsaws, power saws, hammers, vises, screwdrivers, pliers, routers, drill presses, and a variety of unmentioned hand and power tools applicable to the trade. At the end of the program, a student's job readiness and mastery of skills will be measured based on testing and standards of NOCTI.

ELECTRICAL CONSTRUCTION (EC1AM, EC1PM)

4 credits

Students in this course will learn to assemble, install, and test wiring, fixtures and devices used in commercial, industrial, and residential installations. In addition, they learn to keep all types of electrical equipment in working order. They will learn to read blueprints and schematics for motor control and P.L.C.'s. Upon completion, they will be required to take the NOCTI test for electrical occupations. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of the National Electrical Contractors Association.

HEATING/VENTILATION AND AIR CONDITIONING (HV1AM, HV1PM)

4 credits

Students entering the HVAC program learn core skills which would enable them to enter various occupations. These core skills include safety, use of tools, blueprint reading, piping and tubing applications, sheet metal and electrical. A theoretical background in thermodynamics will allow a student to advance into the installation and service fields. Students receive theory and practical training in EPA Section 608 and flexible gas pipe training, leading to national certifications. Continuing education will permit advancement into design and application aspects of the Heating, Ventilation, and Air Conditioning/Refrigeration Industry. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of the National Occupational Competency Testing Institute.

MASONRY (MA1AM, MA1PM)

4 credits

Students should learn the fundamental skills of a mason. The students should create a series of projects that progress from jobs as simple as a brick pyramid to as complex as a residential fireplace. They should learn how to use the basic hand tools of the trade, which include scaffolding, masonry rules, mortar mixers, and other basic tools. They should learn to read blueprints. Students should use the masonry shop to make themselves the best they can be as a mason and as a person. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of NOCTI.

PLUMBING (PL1AM, PL1PM)

4 credits

Students will learn to assemble, install, alter, and repair pipe systems which carry water, steam, or other materials for sanitation, industrial, and other uses. They will also install plumbing fixtures, appliances and hydraulic systems. Reading blueprints and using pipefitting formulas are two other skills the student will learn. Students will use acetylene torches and a variety of hand and power tools. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of NOCTI.

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COMMERCIAL ART (CA1AM, CA1PM)

4 credits

Students will learn how to apply their artistic talents to today's market, beyond pencil and pen, to the computer and using the internet. Working with the latest graphics software and technology, students create brochures, posters, magazine covers & layouts, signs, logos and more. The course covers the principles of graphic design, graphics, typography, basic illustration, use of color, page layout, advertising, digital photography, and portfolio development. A student's mastery of skills will be measured by testing using the standards of NOCTI. Upon graduation, students will be prepared to enter the workforce in an entry-level position. This program is an excellent opportunity for students planning to pursue post-secondary education in graphics, or a design related field.

GRAPHIC COMMUNICATIONS (GC1AM, GC1PM)

4 credits

The Graphic Communications program produces individuals prepared for entry-level work, as well as post-secondary education. This program presents the tools, material, and processes involved in the mass production of the printing industry. The student will gain knowledge and hands-on skills through instruction in composition and imposition, press operations, and finishing and binding, along with management, customer service, and marketing. A high level of math, measuring, language arts, and communication skills are required. All students may earn Skills Certificates based on their level of completion, and choose to participate in the School-to-Work program during their senior year. The student's job readiness and mastery of occupational skills will be measured based on testing and standards of NOCTI.

VIDEO AND MEDIA ARTS (VM1AM, VM1PM)

4 credits

Video and multimedia personnel create the exciting images and sounds that we've come to expect from TV programs, CD ROM and the Internet by combining sound, video and computer graphics technology. The instruction that this program offers includes training in concept development and design, audio and video production, and computer imaging and presentation technology. Computer software applications will include computerized editing graphics and animation. The nationally recognized NOCTI testing will measure a student's mastery of occupational skills at the end of the program. Students may qualify for the Pennsylvania Skills Certificate, indicating high performance and job readiness in multiple areas.

WEB DESIGN (WB1AM, WB1PM)

4 credits

A web designer must be able to lie out, create, test, troubleshoot, and modify web pages and sites. During the first year, students learn the basics of color, typography, design, and Photoshop and Illustrator. Second and third year students learn in-depth techniques how to create and assemble web sites using Dream Weaver and Fireworks and create animation for web sites and other media outlets using Flash and Lightwave 3D.



BAKING (BK1AM, BK1PM)

4 credits

Students will learn how ingredients are weighed and measured for large batches of dough and batter. They will learn how to operate large mixing machines and how to properly blend ingredients. Students participate in the production of many different varieties of bread, rolls, donuts, sweet rolls, Danish pastry, cookies, and many other pastry varieties. Cake decorating skills are taught starting with layer cakes and sheet cakes and advancing to large multi-tiered wedding cakes. Students also learn the advantages and disadvantages of different production options such as the use of prepared bakery mixes and frozen pre-formed products. The nationally recognized NOCTI and ACF will measure a student's mastery of occupational skills at the end of the program. Students may qualify for the Pennsylvania Skills Certificate, indicating high performance and job readiness in multiple areas.

CULINARY ARTS (CU1AM, CU1PM)

4 credits

Students will learn fundamental core competencies in safety, sanitation, measurements, equipment, hand tools, basic food preparation and customer service for a formal, sit down dining atmosphere. They will set career goals and develop employability skills as they experience hands on skills through the operation of a commercial kitchen, bakery, and restaurant facility. The nationally recognized Student Occupational Competency Achievement Test will measure a student's mastery of occupational skills at the end of the program. Students may qualify for the Pennsylvania Skills Certificate, indicating high performance job readiness in multiple areas as well the National Restaurant Association Serve Safe certification.

CULINARY AND EVENT PLANNING (CE1PM)

4 credits

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Students will learn fundamental core competencies in safety, sanitation, measurements, equipment, hand tools, basic food preparation and customer service for banquet, institutional facilities and special event catering. They will set career goals and develop employability skills as they experience hands on skills through the operation of a commercial and institutional kitchen, bakery, and within various locales of the hospitality industry. This program also includes instruction in hospitality industry principles, supplies purchasing, storage and control, hotel and restaurant facilities design and planning and hospitality industry law. Students also are taught personnel management and labor relations, financial management, facilities management, marketing and sales promotion strategies, convention and event management, front desk operations, and other operations. A student's mastery of occupational skills will be measured by the American Hotel and Lodging Association (AHLA).



HEALTH CAREERS (HC1AM, HC1PM)

4 credits

Students in this program of study will receive high quality training that meets the needs of business and industry. Instruction consists of core course content with experiences in various health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc. In addition, the skills taught will include the seamless integration of academic concepts with technical competencies. Furthermore, the skills taught will identify and refine aptitudes for job advancement, security and portability. At the end of the program students will take the nationally recognized NOCTI test that will measure a student's mastery of occupational skills. Students may qualify for the Pennsylvania Skills Certificate, indicating high performance and job readiness in multiple areas.

ACADEMY FOR MEDICAL SCIENCE (MS1AM1, MS1PM4)

2 Credits

The Academy course is fast paced and for the college prep/honors student who is capable of managing class work, as well as independent research assignments. The curriculum includes legal responsibility, ethical issues in health care, communication, medical terminology, safety and first aid, and an overview of the industry. This course is designed to provide the student with the necessary information and skills to be considered safe in a clinical environment. The clinical component offers many health care experiences for a multifocal overview of professional health careers. This course is an honors weighted course.

ATHLETIC HEALTH AND FITNESS (ATH1AM, ATH1PM)

4 credits

Students will learn about sports medicine, health fitness and kinesiology (the study of the mechanics and body movements). Level One students will be in a hands-on learning environment, developing fundamentals in theories of injury prevention and recognition, emergency care, creating exercise and rehabilitation programs along with overall mental and physical health wellness. Advanced level students will be increasing their skill set by learning medical terminology, safety procedures, nutritional facts, basic anatomy and kinesiology. Students have the opportunity to earn their First Aide, CPR, AED and Blood Borne Pathogens certifications.



AUTO COLLISION REPAIR (AC1AM, AC1PM)

4 credits

Repairing the body and frame of a vehicle is the focus of training in the Auto Collision Repair program. All phases of repair are encompassed including the use of frame straightening equipment and the latest in repair and refinishing techniques. Hands on training on customer-owned vehicles plus classroom theory are part of the program's instruction. Students will learn how to properly repair damaged vehicles including repairing and replacing panels, working with sophisticated automotive finishes, special alloy steels, and plastics. The Auto Collision Repair lab is well lighted and equipped to industry standards. This gives the student a clean environment for learning and instructs the student in the safe use of hand and power tools, as well as the use of the latest equipment in the collision repair industry. At the end of the program, a student's job readiness and mastery of skills will be measured based on testing and standards of NOCTI.

AUTOMOTIVE TECHNICIAN (AT1AM, AT1PM)

4 credits

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In the Automotive Technician Program students will learn basic shop procedures, safety guidelines, how to use manuals, databases, tools and equipment and precision instruments first and second level students will learn suspension, brakes, engine, electrical and manual drivetrain. Third level students will learn engine performance (electronic fuel and ignition, emission systems), heating and air conditioning, automatic transmission and axle and state safety and emissions inspection laws and procedures. A student's mastery of occupational skills will be measured using the testing and standards of the NATEF.



COMPUTER NETWORKING (CN1AM, CN1PM)

4 credits

This is an instructional program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares students with the technical skills required to support networks and network users. This program includes instruction in networks technologies and standards; system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting and server optimization. Those completing the program may be employed as a network administrator, network specialist, network technician, webmaster, client services analyst (end user) or network operator.

COSMETOLOGY (CO1AM, CO1PM)

4 credits

Cosmetology students begin their training using a mannequin and working with classmates providing assigned or requested personal services. The students are engaged in a program of study where each works independently and advances from one skill to another throughout the training period. They learn permanent waving, shampooing and styling, manicuring, haircutting, facials, scalp treatments, and color. After basic techniques are mastered, the students are required to work on clients in the patron service area. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of the Pennsylvania State Board of Cosmetology Licensing Exam.

PROTECTIVE SERVICES (PS1AM, PS1PM)

4 credits

An instructional program that prepares individuals to apply technical knowledge and skills required to perform entry-level duties as a police officer, fire fighter, paramedic, and other safety services. The program stresses the techniques, methods, and procedures peculiar to the areas of criminal justice and fire protection, especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupations. In addition to the application of mathematics, communication, science, and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care, appropriate emergency assessment, treatment, and communication. A student's mastery of skills will be measured by the testing and standards of the National Occupational Competency Testing Institute.



ACADEMY FOR APPLIED ENGINEERING (AE1AM1, AE1PM4)

2 credits

This course is structured much like a traditional college level engineering course. Three periods per week are reserved for lecture and discussion, one period per week for student presentations and six periods per week for lab activities. Lab activities consist of individual and group projects designed to reinforce the theory components. These competitions permit the students to participate in actual engineering projects involving design, construction, and testing of a prototype device. Following testing, the team presents a formal audio-visual presentation to an audience of judges and peers from Lafayette College Higher Education. This course is an honors weighted course.

ELECTRONIC ENGINEERING AND MANUFACTURING (EE1AM, EE1PM)

4 credits

This course is designed to give students the theory and hands-on experience to design and complete electronic assemblies using both hand and automated techniques. Students will learn to set up, program, and operate electronics manufacturing equipment in a high-tech educational environment. Students who complete this program will be able to set up and operate a mixed-technology assembly and inspection. Students will have the opportunity to receive certification in both Electronic Technicians Association (ETA) as well as IPC -A-610 Acceptability of Electronic Assemblies certification. Both certificates are recognized nationally and locally by electronic manufacturing companies as well as the Department of Defense. This allows students to be employed as an Electronic Application Specialists in the field.

INDUSTRIAL DESIGN/ADVANCED MANUFACTURING (PM1AM, PM1PM)

4 Credits

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Students will use critical thinking and the design process to bring new ideas to life for companies, communities and citizens. Students will learn fundamental skills for machining metal and other materials through the use of lathes, mills, drills, saws and other specialized equipment. This hands-on learning environment will also develop blueprint reading and precision measurement skills. Computer Numerical Control (CNC) programming and machining operations are emphasized in the intermediate and advanced levels of the program. Students will have the opportunity to earn national certifications and articulated credits with Penn Tech.

WELDING (WL1AM, WL1PM)

4 credits

Students are taught fundamental skills for welding carbon steel and other metals. Students progress from basic welds to various configurations and positions. Students progress to more complex joints with simulated certification level testing procedures. Students are taught cutting and various metal removal methods. They will safely use a variety of hand tools, operation of the saw, drill press, hand and pedestal grinders, brake press, and iron worker used in fabrication preparation. They are taught to read and visualize shapes from blueprints. At the end of the program, a student's job readiness and mastery of occupational skills will be measured based on testing and standards of the American Welding Society.

2019 - 2020 Course Offerings

Business and Technology

B601T - Technology Seminar I

B602T - Technology Seminar II

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B603 - Accounting
B604 - Marketing
B606 - Sports and Entertainment Marketing
B607 - Entrepreneurship
B608 - Personal Finance
B609 - Introduction to Business
B610 - Business Law
B612T - HTML
B613T - Website Design and Animation
B617T - Graphic Design for Business Applications
B618T - Intro to Programming
B619 - Business Communications

English

E100CP - English 9
E100H - Honors English 9
E101CP - English 10
E101H - Honors English 10
E102CA - Career English 11
E102CP - English 11
E102H - Honors English 11
E102AP - AP English 11: Language and Composition
E103CA - Career English 12
E103CR - College-Ready English 12
E103CP - English 12
E103H - Honors English 12
E103AP - AP English 12: Literature and Composition
E106AH – Theater Arts
E108AH - Journalism
E109AH - Yearbook
E113AH - Mythology
E117AH - PSAT/SAT/ACT Verbal Prep
E118AH - Creative Writing
E119AH - Public Speaking
E121 - ESL Level 1
E122 - ESL Level 2
E123 - ESL Level 3

Family and Consumer Sciences

F720 - Creative Living
F722 - Nutrition for Wellness
F723 - World of Baking
F724 - Culinary Arts
F726 - Independent Living

Fine Arts and Digital Arts

AH800T - Digital Photography
AH801T – Graphic Design Solutions
AH802T - TV Production
AH805 - Basics of Art
AH806T - Digital Animation
AH807 - So You Think You Can't Draw
AH809 - Drawing, Painting and Design
AH812 - Clay, Metal, and World Arts
AH836T – The CAD Creation Lab
AH841 – Advanced Fine Art I
AH842 – Advanced Fine Art II
AH843T – Imagineering Workshop

Health and Physical Education

HE702 – Secondary Health
PE702 – Secondary Fitness
PE705 - Team Sports
PE706 - Strength Conditioning
PE707 - Personal Fitness
PE708 - Dance/Rhythmic Activity
PE709 - Net and Racquet Sports
HE711 - Introduction to Sports Medicine/Athletic Training
HE712 - Sports Medicine/Athletic Training II
HE713 - Health Emergencies
HE716 - Sport Industry
HE717 - Sport and Performance Psychology

Mathematics

M303 - Foundations of Algebra
M304 - Algebra I

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M305 - Algebra II
M305H - Honors Algebra II
M306H - Honors College Algebra
M307 - Geometry
M307H - Honors Geometry
M309 - Mathematics Applications
M310 - Pre-Calculus
M310H - Honors Pre-Calculus
M311 - Calculus I
M311AP - AP Calculus AB
M312AP - AP Calculus BC
M313 - Statistics
M313AP - AP Statistics
M314 - PSAT/SAT/ACT Math Prep
M317 - College-Ready Math

Music

AH820 - Concert Band
AH821 - Orchestral Music
AH822 - Chorus - Full Year
AH823 - Chorus - Semester
AH828 - Rockin' Out
AH829 - Songwriting Made Easy
AH833 - iSing

Science

S400 - Physical Science
S401 - Biology
S401H - Honors Biology
S401AP - AP Biology
S402 - Chemistry
S402H - Honors Chemistry
S402AP - AP Chemistry
S403 - Physics I
S403H - Honors Physics I
S403AP - AP Physics I
S404AP - AP Physics II
S405AP - AP Environmental Science
S406H - Honors Anatomy & Physiology
S408 - Earth/Space Science
S409 - Oceanography
S411 - Genetics
S412 - Ecology
S413 - People, Science, and the Environment
S414H - Honors Microbiology
S417 - Pennsylvania Wildlife and Habitat

Social Studies

H202 - United States History II
H202H - Honors United States History II
H203AP - AP United States Government
H205AP - AP United States History
H207AP - AP European History
H208 - Modern Global History
H208H - Honors Modern Global History
H209 - Psychology
H209H - Honors Psychology
H209AP - AP Psychology
H210 - Sociology
H210H - Honors Sociology
H212 - Criminal and Civil Justice
H213 - Discovering Global Perspectives
H224AP - AP Microeconomics
H225AP - AP Macroeconomics
H226 - Civics and Government
H226H - Honors Civics and Government
H227 - United States History III
H227H - Honors United States History III

Special Education

G100 - General English A
G200 - General Social Studies A
G300 - General Math A
G400 - General Science A
G101 - General English B

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G103K – General Keystone English I
G104K – General Keystone English II
G301 - General Math B
G303K - General Keystone Math I
G304K – General Keystone Math II
G401 - General Science B
G403K - General Keystone Science I
G404K – General Keystone Science II
G608 - Transition from School to Community
G702PE - Adaptive Physical Education
G800 – Life Skills Support

World Languages

AH500 - French I
AH501 - French II
AH502 - French III
AH503H - Honors French IV
AH516AP – AP French Language and Culture
AH504 - German I
AH505 - German II
AH506 - German III
AH506H - Honors German III
AH507 - German IV
AH507H - Honors German IV
AH514AP – AP German Language and Culture
AH508 - Spanish I
AH509 - Spanish II
AH510 - Spanish III
AH510H - Honors Spanish III
AH511 - Spanish IV
AH511H - Honors Spanish IV
AH515AP – AP Spanish Language and Culture
AH512 - Latin I

BAVTS Courses

AC1AM - Auto Collision Repair
AC1PM - Auto Collision Repair
AE1AM1 - Academy for Applied Engineering (Lafayette)
AE1PM4 - Academy for Applied Engineering (Lafayette)
AT1AM - Automotive Technician
AT1PM - Automotive Technician
ATH1AM - Athletic Health and Fitness
ATH1PM - Athletic Health and Fitness
BK1AM - Baking
BK1PM - Baking
BT1AM - Carpentry/Building Trades
BT1PM - Carpentry/Building Trades
CA1AM - Commercial Art
CA1PM - Commercial Art
CE1PM - Culinary and Event Planning
CN1AM - Computer Networking
CN1PM - Computer Networking
CO1AM - Cosmetology
CO1PM - Cosmetology
CR1AM - Carpentry
CR1PM - Carpentry
CU1AM - Culinary Arts
CU1PM - Culinary Arts
EC1AM - Electrical Construction
EC1PM - Electrical Construction
EE1AM - Electronic Engineering and Manufacturing
EE1PM - Electronic Engineering and Manufacturing
GC1AM - Graphic and Print Technology Communications
GC1PM - Graphic and Print Technology Communications
HC1AM - Health Careers
HC1PM - Health Careers
HV1AM - Heating/Ventilation and Air Conditioning
HV1PM - Heating/Ventilation and Air Conditioning
MA1AM - Masonry
MA1PM - Masonry
MS1AM1 - Academy for Medical Sciences
MS1PM4 - Academy for Medical Sciences
PL1AM - Plumbing

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PL1PM - Plumbing
PM1AM - Industrial Design/Advanced Manufacturing
PM1PM - Industrial Design/Advanced Manufacturing
PS1AM - Protective Services
PS1PM - Protective Services
VM1AM - Video and Media Arts
VM1PM - Video and Media Arts
WB1AM - Web Design
WB1PM - Web Design
WL1AM - Welding
WL1PM - Welding

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