

HAMBURG AREA HIGH SCHOOL

**“TO PREPARE
LEARNERS TO LIVE
LIVES OF
SIGNIFICANCE AND
MEANING”**



PROGRAM OF STUDIES 2025 – 2026

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HAMBURG AREA SCHOOL DISTRICT
701 WINDSOR STREET HAMBURG, PENNSYLVANIA

BOARD OF SCHOOL DIRECTORS

Carson B. Adam
Thomas DeAngelo
Ryan J. Gebely
Steven C. Gilbert
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Toni L. McFadden
Daniel Sarna
Birgit H. White

ADMINISTRATION

Dr. Christopher R. Beissel, Superintendent
Mr. Ryan McGinley, High School Principal
Mrs. Alyssa A. Fink, High School Assistant Principal
Mrs. Teresa Freiwald, Chief Learning Officer

The Hamburg Area School District is an equal opportunity educational institution and will not discriminate on the basis of race, color, national origin, sex, age, religion, or disability in its activities, programs or employment practices as required by Title VI, Title IX, Section 504, and ADA.

The School District will provide those related services, aids and accommodations which are needed to afford all students an equal opportunity to participate in and obtain benefits of the school program and co-curricular activities without discrimination and to the maximum extent appropriate to the student's ability.

For information regarding Civil Rights, Grievance Procedures, as well as services, activities and facilities that are accessible to and usable by disabled persons contact Hamburg Area School District Offices, 701 Windsor Street, Hamburg, PA 19526-0401 (610-562-2241).

OUR COMPELLING PURPOSE

A Compelling Purpose is not a slogan, jingle, or feel-good statement. A Compelling Purpose identifies the work that is “so important, we can’t not do it.” In an age of increasing complexity, we need a Compelling Purpose to remind us, and those we serve, why we exist. Our Compelling Purpose identifies our “true north” and inspires us to contribute to a collective cause that is greater than our individual interests.

The Compelling Purpose at Hamburg Area School District is based on the commonsense notion that there are lots of ways to be smart; that all learners have different talents and different interests, which must be fully developed so that **Every Child, Without Exception**, stands the greatest chance of making a difference in the world.

INTRODUCTION

The Program of Studies is a tool to be used for planning your high school educational experiences. It includes information and guidelines that are used to develop the plan that you will follow to explore your passions and identify your talents. Uniting your talents and passions to prepare you to become an informed productive citizen of the world is the ultimate goal of your high school experience.


The Program of Studies is organized to reflect the process you will use to identify and prepare for a career while meeting the requirements to earn a diploma from Hamburg Area School District. This is a critical component of becoming an informed productive citizen. Identifying a career pathway that includes various opportunities to use your talents and passions to earn a living is the first step of the process. After the career pathway is identified, students will explore these pathways through the recommended courses that are selected.

A description of these courses is provided with appropriate icons that reflect their inclusion in a specific career pathway. This Program of Studies will answer many of the most common questions that students and parents have. However, it is critical that you seek out a trusted teacher, your school counselor, and of course your parents, to discuss your plans and aspirations. They will be able to assist you in deciding the courses that align with the future educational requirements for the career pathway that you select. Please remember, ultimately, your parent will approve your final choices.


GRADUATION REQUIREMENTS

To graduate from Hamburg Area High School and to participate in the graduation ceremonies, a student must have accumulated a minimum of 24 credits and meet Pennsylvania State Act 158 graduation requirements. These credits must include the following:

Department	Required Course(s)			Required Credits
English	English 9, 10, 11, 12 (or AP Lang & AP Literature)			4
Social Studies	Civics, World Cultures, American Cultures, Global Studies (or Honors-level and AP)			4
Math	2 Algebra & Geometry			3
Science	Integrated Science, Biology & one other OR Honors Biology & two other Science courses			3
STEM	Any Science, Math, or Engineering			2
Fine Arts	Art & Music			0.5
Comp. Tech.	Computer & Career Awareness			0.5
Personal Finance	Personal Finance or Consumer Math			0.5
Wellness	Wellness 9, 10 and two additional			2
Electives				4.50
Needed (for promotion)	9 th grade (5.1)	10 th grade (10.6)	11 th grade (17.6)	Grad 24
PA State Graduation Requirements	As outlined in ACT 158. Students in the class of 2023 and beyond are required to fulfill district graduation requirements as well as complete an option from the statewide graduation requirements.			



**PENNSYLVANIA HIGH SCHOOL
GRADUATION REQUIREMENT¹**



Students in the graduating class of 2023 and beyond are required to fulfill district graduation requirements as well as select from the following statewide graduation requirements:

**OPTION 1
(Keystones)**

Score proficient or advanced on each Keystone Exam
☐ Algebra 1 ☐ Biology ☐ Literature

OR

**OPTION 2
(Composite)**

☐ Earn composite score of 4452 or higher on the Keystone Exams while scoring at least Proficient on one exam and no less than Basic on the other two.

OR

**OPTION 3
(Alternative Assessment)**

A 1:1 swap for a non-passed Keystone.
Must pass course (Algebra 1, Biology, and/or English 10)
AND
 One alternative assessment:
☐ SAT 1010
☐ PSAT 970
☐ ACT 21
☐ ASVAB 31
☐ ACT WorkKeys-Gold

☐ Acceptance letter at 4-year institution
☐ Completion of registered pre-apprenticeship
☐ AP score 3+ in same subject
☐ Pass dual enrollment in subject

OR

**OPTION 4
(Evidence)**

Must pass course (Algebra 1, Biology, and/or English 10)
AND
 Three pieces of evidence (At least one *):
☐ ACT WorkKeys-Silver*
☐ AP score 3+ in any subject*
☐ Acceptance letter to higher ed institution*
☐ Industry-recognized credential*
☐ Pass any dual enrollment course*
☐ Completion of service-learning project
☐ Proficient on a Keystone Exam
☐ Letter of full-time employment after graduation
☐ Successful completion of internship (professional field experience)

OR

**OPTION 5
(CTE)**

Must pass course (Algebra 1, Biology, and/or English 10)
AND
 Attain Industry-based certification (NIMS/NOCTI) or passing grade at CTE.

CAREER PATHWAYS PROGRAM

The Career Pathways Program is a program of interconnected academic and elective classes revolving around a career or subject theme. It is integrated with experiential learning and close connections between secondary and post-secondary education, training, and apprenticeship. The program is designed to support the development of Career and Life readiness for the learning, so that the individual can successfully enter and advance in a career path (Hans Meeder, *The Power and Promise of Pathways*).

Students will explore their personal interests that relate to each of the four career paths while taking the Computer and Career Awareness Class in ninth grade. Students will then focus their choice of core and elective courses on the educational and training requirements necessary to advance in this Career Pathway upon graduation. Many students will attend the Berks Career and Technology Center. Other students will be provided opportunities to explore various careers within the selected Career Pathway. Field trips, job shadowing, internships, and Professional Field Experience are available as they matriculate through high school along their pathway.

The courses in the Program of Studies are identified as recommended for one of the four Career Pathways: Arts & Communication; Business, Finance, & Informational Technology, Engineering & Industrial Technology; and Human Health & Social Sciences. Some of the courses in the Program of Studies are recommended for more than one Career Pathway. The icon for each course that is recommended for a pathway(s) is included in the course description. **Courses without an icon are core courses that all students should consider taking.**

Arts & Communications

Careers in this pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, fine arts, and world languages.

Recommended elective courses: Video Communications, Publications, All Art classes, World Languages, Music classes, Wood Working, and Materials Processing, AP English classes

Business, Finance, & Information Technology

Careers in this pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

Recommended elective courses: Business Fundamentals, Accounting, Entrepreneurship, Sports and Entertainment Marketing, Business Law, Microsoft Office Certification

Engineering & Industrial Technology

Careers in this pathway are related to the technologies necessary to design, develop, and implement solutions to the world's problems. Issues addressing the cities and spaces we live in; the environment and natural resources; and securing our information are included in this pathway.

Recommended elective courses: PLTW sequence, Computer Science Essentials, Wood Working, Materials Processing, Home Repair and Maintenance, Advanced Topics in Chemistry, AP Physics

Human Health & Social Sciences

Careers in this pathway are related to the promotion of health and wellness along with the treatment of disease and disorders; economic, political, and social systems; and teaching and training adults and children the information and skills necessary to ensure a productive career and life.

Recommended elective courses: Anatomy and Physiology, Advanced Physical Education, Infectious Disease, Forensics, Psychology, Sociology, other Social Studies Electives, AP Biology, AP United States Government & Politics, AP United States History



Business & Information Technology

Business Management & Entrepreneurship (W)
Computer Systems Networking & Security (E)
IT Programming (W)

Communications

Advertising Art & Design Technology (W)
Video & Media Content Production (W)

Construction

Building Construction Occupations (E)
Cabinetry & Wood Technology (E)
Carpentry (E)
Electrical Occupations (B)
Heavy Equipment Operators (E)
Horticulture (E)
HVAC / Refrigeration (E)
Masonry (E)
Residential Painting & Interior Design (E)
Plumbing & Heating (E)

Engineering & Manufacturing Technology

Drafting Design Technology (W)
Mechatronics Engineering Technology (W)
Precision/Computerized Machining Technology (W)
Welding Technology (W)

Healthcare

Dental Occupations (E)
Health Occupations (W)
Medical Health Professions (W) **(Seniors Only)**
Sports Medicine & Rehabilitative Therapy (E)

Services

Cosmetology (B)
Culinary Arts (B)
Early Childhood Education (B)
Protective Services – Homeland Security (E)
Protective Services – Law Enforcement (E)
Service Occupations (E)

Transportation

Auto Collision Repair Technology (B)
Automotive Technology (B)
Diesel Technology (E)
Heavy Equipment Technology (E)
Recreational & Power Equipment Technology (W)

Technical Academy Program

Business Management & Entrepreneurship (W)
Computer Systems Networking & Security (E)
IT Programming (W)
Mechatronics Engineering Technology (W)

Note: (B) indicates the program is offered at both campuses.

(E) indicates the program is offered only at the East Campus in Oley.

(W) indicates the program is offered only at the West Campus in Leesport.

Berks Career & Technology Center consists of two campuses:

East Campus | 3307 Friedensburg Road | Oley, PA 19547 | 610-987-6201

West Campus | 1057 County Road | Leesport, PA 19533 | 610-374-4073

Visit us online at www.berkscareer.com

DUAL ENROLLMENT

This program is a special agreement between the Hamburg Area School District and Reading Area Community College in which students may receive college credit for specific high school courses. These high school courses have been articulated with the college curriculum and are recognized as courses which meet college standards.

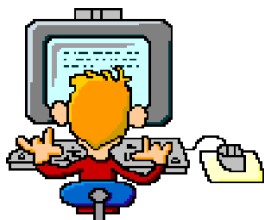
Students enroll simultaneously at Hamburg Area High School and Reading Area Community College. The courses will continue to be taught by high school teachers. Tuition would be paid by student's family to RACC in order to receive college credit. These courses appear on a RACC transcript and on the Hamburg Area High School transcript as credits earned.

The following courses are included in the Dual Enrollment Program: AP Calculus, AP Literature and Composition, AP Language and Composition, AP Environmental Science, AP Biology, Advanced Topics in Chemistry, Infectious Diseases, AP United States Government & Politics, AP United States History, Spanish III, Spanish IV, Advanced Drawing, and Advanced Painting.

Students are also welcome to take courses at local colleges and universities while a student at Hamburg Area High School. Each 3-4 credit core course successfully completed at a college or university will count as one credit earned at Hamburg Area High School. These courses will not be included in the calculation of the Grade Point Average. Students must get approval from the high school principal before credit is awarded.

EARLY ADMISSION TO COLLEGE

Upon approval of the High School Principal and Board of School Directors, students may be accepted to and attend college during their senior year (12th grade). After successful completion of the freshman year in college, they will be eligible for a high school diploma and may participate in commencement exercises.



HASD VIRTUAL LEARNING

Hamburg Area School District offers virtual (online) learning options for all students. Each course is designed to provide a challenging, rigorous curriculum for students who exemplify the characteristics of successful digital learners. Prospective virtual students must demonstrate the following qualities for success:

- **PREREQUISITES** - A minimum 80% in current year's course and B GPA (80% or higher)
- **MOTIVATED** - The ability to ignore all the outside distractions and get your work done.
- **RESPONSIBLE** - You must be able to meet deadlines.
- **PROBLEM SOLVER** - Ability to figure things out on your own or look for other resources.

- INDEPENDENT LEARNER -You can take notes, think critically, and study on your own.
- ASK QUESTIONS - You seek help when you don't understand or need explanations.
- STUDY ENVIRONMENT - Your home environment is setup so it can also be your classroom.
- PARENT SUPPORT - Parents need to closely monitor their child's progress and assist at times.

Families work closely with the school counselor and Virtual Learning Facilitator to customize a program and insure a successful experience. Parents receive weekly progress reports for their students. Student progress and log-in/attendance is closely monitored by the Virtual Learning Facilitator.

Online courses may be considered due to a schedule conflict or when a student would like a unique course not offered in the High School Program of Studies. Online courses may be taken for initial credit.

The Hamburg Area School District utilizes several online curriculum providers to offer a variety of courses including electives, honors, AP, and world language. Contact the Virtual Learning Facilitator for available virtual courses lists and catalogs.

All online courses follow a semester or full-year academic calendar. Enrollments are conducted prior to the start of each school year and prior to the start of the second semester in January. **Any student interested in online learning opportunities must first complete the HAVA Program inquiry form.**

The enrollment window for HAVA closes two weeks prior to the start of each semester.

HASD Virtual Learning students retain the following benefits:

- Attendance at school functions including dances, proms, clubs, field trips, assemblies, and other school-sponsored activities.
- Participation in extracurricular activities such as music, drama, and athletics.
- Receipt of a high school diploma from the Hamburg Area School District upon meeting all requirements.
- Access to school-wide services including counseling, career guidance, support programs, family and social services, and student assistance.

MEDICAL HEALTH PROFESSIONS PROGRAM

Berks Career and Technology Center, Penn State Berks, and The Reading Hospital & Medical Center collaborate to offer an exciting Medical Health Professions Program for high school seniors. The program combines high level academics with the opportunity to shadow health care professionals and earn college credits.

The program exposes high school seniors to various healthcare professions so they can make more informed decisions about their future education. Students will be enrolled in both Penn State Berks and BCTC for one year, taking Chemistry and Physiology courses at Penn State Berks two days per week and attending health classes and shadowing healthcare providers at The Reading Hospital three days per week. Students will be able to earn up to eight transcript college credits through the program. BCTC is able to offer these courses tuition free to students through a state grant.

BCTC provides education in the areas of healthcare and healthcare professions. The Reading Hospital provides job shadowing opportunities in which students will gain an understanding of the healthcare system by observing professionals in a real-world environment. Admission to the program is competitive and students must meet strict admission guidelines.

PROFESSIONAL FIELD EXPERIENCE

Connecting classroom learning with career opportunities is an important component of the high school experience. Students wishing to gain experience in a particular career field may do so through the Professional Field Experience or PFE. Our PFE program provides students with opportunities to explore careers that match their personal interests and skills while gaining real-world experience and mentorship in an occupational field. These hands-on experiences allow students to be better prepared for their future and give them the flexibility to experiment with different occupations before they invest their time and money into further training or education after high school.

INDEPENDENT STUDY ELECTIVES

The Independent Study Program is designed for students who have demonstrated a high degree of motivation and have the ability to work independently. To enroll in an independent study program, a student must be in 11th or 12th grade, have the approval of the teacher, the School Counselor, and the High School Principal. Applications are available in the High School Counseling Office. Teachers are required to develop a full and complete description of each independent study program.

COLLEGE-BOUND STUDENT-ATHLETES (NCAA)



College-bound student-athletes preparing to enroll in a Division I or Division II school need to take courses approved by the NCAA to ensure they have met amateurism standards and are academically prepared for college coursework. Starting as early as ninth grade, NCAA eligibility begins for students. There are both grade point average requirements as well as completion of NCAA approved courses. Students must also register with the NCAA no later than the end of junior year.

Approved courses are listed with the NCAA symbol and are typically core classes at the PS-level or higher. For more information and to register with the NCAA Eligibility Center visit www.eligibilitycenter.org.

SCHEDULING CLASSES

Students will begin the course request process in marking period 3 for the following academic school year. The requests must meet the minimum standards for the grade level. Students may request electives provided they have met the prerequisites and/or have obtained approval as required. The requested courses should be discussed with teachers, counselors, and parents to be sure the educational and vocational needs of the students have been met.

A complete description of each available course shall be found in the Program of Studies. Additionally, there will be ample time for the students and their parents to discuss selections with teachers and School Counselors.

Students are expected to register for and complete a minimum of 6.5 credits per year. Students are eligible to register and complete up to 8 credits per year. Parents are responsible for payment of all courses exceeding 8 credits in a school year.

SCHEDULE CHANGES

Once the courses and other learning opportunities have been selected and approved by the parents, **no changes will be made unless approved by a principal**. Courses are offered based on student requests. This often results in courses not being offered due to another course with greater interest. Course selection changes often result in the denial of opportunities for some students and the over enrollment in other courses.

Withdrawals from a course requires a principal's approval. The student must provide proof of **extenuating circumstances** that they cannot complete the course and parental approval before consideration by a principal. Any course that is dropped after the school year begins will be noted on the report card and becomes a permanent part of the student's transcript. A mark of WF (withdraw-failing) will be recorded.

MINIMUM COURSE ENROLLMENT

In accordance with the provisions of Section 1604 of the Public-School Code, the School District reserves the right to cancel a course offering with insufficient enrollment.



HAMBURG AREA HIGH SCHOOL

Schedule Change Request Form

This form must be completed in order to have your request reviewed for a schedule change once school starts. A WF (withdraw/fail) will be listed for this course on my permanent transcript.

Step 1: To be completed by the Student

Name: _____ Grade: _____ Date of Request: _____

Requested course to DROP: _____

I understand that a WF (withdraw/fail) will be assigned to this course.

Requested course to ADD: _____

Please use the back of this form to share your reasons for requesting this change.

Step 2: To be completed by the Parent

I understand that a WF (withdraw/fail) will be assigned to this course.

Date of contact with teacher regarding student's performance and placement. (E-mail, phone) _____

After conversations with my student's teacher, I support this request. _____

Parent Signature

Step 3: To be completed by the Teacher

Grade to date: _____ Number of absences from class: _____

Rate on the following scale, 1(low) to 5(high)

Completed assignments _____

Requested help outside of class _____

Classroom participation _____

Classroom attitude _____

Classroom readiness _____

Proper placement _____

Please use the back of this form to share any additional information.

Step 4: Return this completed form to your counselor for administrative review and decision.

Approved _____ Not Approved _____

Administrator Signature

Date:

Comments:

GRADING SYSTEM

A student's grade is meant to represent the percentage of material mastered at a given point in time. It is recognized that our school system is also responsible to provide opportunities for students to grow into responsible citizens. The grading system presented below is based on a percentage grade where at least 80% of the grade accounts for a student's level of mastery and no more than 20% of the grade represents work ethic, participation, attendance, or other aspects of being a responsible citizen. Quarterly reports are available every nine weeks and include a final grade in June. Parents and guardians can see their child's progress on a daily basis by logging in to www.hasdhawks.org and clicking on the Sapphire Community Portal.

Parents and teachers are encouraged to establish and maintain communication about students throughout the year. Teacher e-mail addresses can be found on the Hamburg Area School District website: www.hasdhawks.org Additionally, parent conferences scheduled throughout the year provide a special occasion to discuss student progress.

HONOR ROLL

High School students who receive an unweighted marking period GPA of 90% or above, no incompletes or grades below 60%, are eligible for the Honor Roll.

HIGH HONOR ROLL

High School students who receive an unweighted marking period GPA of 98% or above, no incompletes or grades below 60%, are eligible for the High Honor Roll.

GRADES ARE VALUED AS FOLLOWS:

<u>RATING</u>	<u>PERCENTAGE GRADE</u>	<u>OTHER GRADES</u>
Excellent Work	90 – 100	I – Incomplete
Good Work	80 – 89	S – Satisfactory
Satisfactory Achievement	70 – 79	U – Unsatisfactory
Minimally Proficient	60 – 69	P – Passing
Deficient, Not Passing	below 60	F – Failing
		M - Medical

The final grade for a course will be determined by averaging the quarters in which the course was in session.

GRADE POINT AVERAGE AND CLASS RANK

Class rank and GPA are calculated on all subjects that grant school credit. For the purpose of determining class rank, criteria for weighting classes provided below.

Expectations of Students for Weighted Courses - 4-Tiered System

Criteria	(20% Weighting) AP	(15% Weighting) Honors	(10% Weighting) Post-Secondary	(No Weighting) Standards Based
Expected Work Outside of Class	Extensive - most nights/weekends	Frequent - most nights/some weekends	Less Frequent - some nights/some weekends	Infrequent - given class time for most assignments
Instructional Pace	College level - fastest pace, numerous topics in great depth	Fast pace, numerous topics, in-depth	Moderate Pace, numerous topics, in-depth	Slower Pace, topics covered at level of standards
Level of Reading/Writing	College level reading and writing with high expectations for student centered analysis/synthesis of information	Frequent reading assignments involving student centered analysis and rigorous writing assignments	Occasional reading assignments involving teacher lead analysis and critical writing assignments	Shorter reading and writing pieces, teacher lead analysis, scaffolding provided for writing assignments
Assessment	Few, extensive amount of content, very high stakes, mostly high depth of knowledge questions, no quizzes	Less Frequent, large amount of content, mostly high depth of knowledge questions, quizzes rare	Less frequent, moderate amount of content, some higher depth of knowledge questions, may allow quizzes	Frequent, smaller amount of content, lower depth of knowledge questions, may allow quizzes
Time in Class for Preview/Review	Rare	Infrequent	Occasionally	Most likely daily
Pre-course assignments/prerequisites	Most likely required	More likely required	May be required	Not likely to be required
Amount of Self-Directed Learning	Extensive	Frequent	Occasional	Infrequent

MATRICULATION TO THE NEXT GRADE

The following are the minimum of credits needed to attain the status of freshmen, sophomore, junior, or senior:

Freshman 0 – 5.

Sophomore 5.1 - 10.5

Junior 10.6 - 17.5

Senior 17.6 and above (24 credits are needed for graduation)

Students may take courses on the next level but will not attain that status until the minimum number of credits is earned.

SUMMER LEARNING ACADEMY/CREDIT RECOVERY

Students who fail to meet the requirements for graduation from Hamburg Area High School may not participate in the class commencement ceremony. They may qualify for the diploma issued later under the following conditions:

1. Complete the required make-up work in Summer Learning Academy, approved independent study, or approved credit recovery courses during the summer immediately following the senior year. To qualify, a student must have completed a similar course during the school year and achieved a minimum grade of 50%. All make-up work must receive pre-approval from the High School Principal.
2. Return to school the following school year to make-up necessary deficiencies.

Credit recovery is also available to all other students, earning a 50% or higher, who wish to make up failed courses. Credit recovery options are available during the summer and the school year. Parents are responsible for the payment of credit recovery courses or any other course that exceeds 8 credits in a school year.

COURSE DESCRIPTIONS

The following pages of the **Program of Studies** contain brief descriptions of all high school courses. As you read the descriptions and begin to make selections, please keep the following in mind:

- . All courses are gender neutral.
- . Courses marked as one credit meet every day for the full year; those marked 0.5 meet every other day for the full year or every day for 1 semester. In other instances, remember that one day per cycle (for a full year) equals 0.2 credits.
- . The availability of elective courses depends upon student enrollment. A course may be canceled if an insufficient number of students enroll.
- . Subject areas are arranged alphabetically within this section. The lower grade-level courses are usually listed first within each subject area.
- . Students should select courses at the appropriate level of difficulty. Discussions with teachers and school counselors can help students choose the most appropriate courses.
- . Ordinarily, all courses are open to students who have taken the prerequisites. However, some courses are specifically designed for students with particular abilities and thus have limited enrollment. Some important definitions that are used in this regard are:

AP – These courses are developed to prepare students for the College Board Advanced Placement examinations.

Honors (H) – A higher level or more demanding course offered to high ability students in place of the regular course offering.

Post-Secondary (PS) – Content taught in courses designated as post-Secondary expand upon the *Pennsylvania Core Standards* that are published by the Pennsylvania Department of Education. The content of these courses also includes the required material for a student who plans on attending any post-secondary institution of learning after graduating from Hamburg Area High School.

Permission – A student may enroll in these courses only with permission of the principal. Teacher and counselor recommendations are considered heavily in these decisions.

Prerequisite – A prerequisite is a requirement which the student must satisfy before taking a particular course. In some instances, concurrent enrollment or permission are acceptable alternatives.

ART

The art program is designed for students interested in art as a career as well as an avocation. The program gives students an opportunity to express themselves through the use of a variety of media and techniques. The program helps students develop sensitivity towards the elements and principles of art and an appreciation for forms of art, both past and present.

8020 CERAMICS AND 3D DESIGN

Grades 9-12

FULL YEAR
CREDIT: 1.0

In this course, students will be introduced to 3D Art. Students will be introduced to clay materials to learn structural techniques of hand-building with clay, jewelry making, and sculpture. Materials may include clay, glass, metal, or mixed media. Studio safety is emphasized. **(Satisfies the fine arts requirement)**

8120 ADVANCED CERAMICS AND 3D DESIGN

Grades 10-12

Prerequisite: Ceramics and 3D Design

Weighting: 10%

FULL YEAR
CREDIT: 1.0

In this course, students are encouraged to explore personal creativity with 3D materials in depth. Materials may include clay, glass, metal, or mixed media. Emphasis is placed on using a variety of materials and techniques to design and construct 3D objects. **(Satisfies the fine arts requirement)**

8010 DRAWING

Grades 9-12

FULL YEAR
CREDIT: 1.0

This course is designed to introduce students to the fundamentals of drawing. Students will learn to apply traditional and digital drawing techniques unique to the drawing process. Possible materials include pencil, charcoal, pastel, colored pencil, or ink. Students may also explore drawing applications for digital art. Example subject matter include still life, portraiture, landscape, and perspective. Student artwork may also be represented on a large scale. **(Satisfies the fine arts requirement)**

8110 ADVANCED DRAWING



Grades 10-12

Prerequisite: Drawing

Weighting: 20%

FULL YEAR
CREDIT: 1.0

In this course, students will develop a collection of work through an in-depth exploration of traditional or digital drawing topics, materials, and techniques. Students will further develop their personal voice and skills in a range of approaches to drawing. **Dual Enrollment college credits may be available through RACC.**

8030 PAINTING

Grades 9-12

FULL YEAR
CREDIT: 1.0

This course provides an overview of color theory and design. Students will learn the basic skills and techniques that are applied in various styles of representational and nonrepresentational painting. Materials may include watercolor, acrylic, or oil paint. Students may also explore painting applications for digital art. Subject matter may include still life, landscape, portrait, or abstract work. Student artwork may also be on a large scale. **(Satisfies the fine arts requirement)**

8130 ADVANCED PAINTING



Grades 10-12

Prerequisite: Painting

Weighting: 20%

FULL YEAR
CREDIT: 1.0

In this course, students will develop a collection of work through an in-depth exploration of traditional or digital painting topics, materials, and techniques. Students will further develop their personal voice and skills in a range of approaches to painting. **Dual Enrollment college credits may be available through RACC.**

8240 STUDIO ART

Grades 10-12

Prerequisite: Previous Art Class or Teacher Approval

Weighting: 10%

FULL YEAR
CREDIT: 1.0

This course is designed to introduce students to a range of art media, techniques, and processes. Emphasis is on exploring various art applications for portfolio preparation. This course is recommended for serious art students who want to go on to art school. Students have the opportunity to work on special projects. **(Satisfies the fine arts requirement)**

BUSINESS COMPUTER AND INFORMATION TECHNOLOGY

The major goal of Business Computer and Information Technology courses is to prepare young people for success in their everyday contacts with the academic and working worlds as students, consumers, and employees.

The courses prepare academic students for success on the college level. Students will have the opportunity to use the most popular software available in college classrooms and business offices today. Word processing and spreadsheet skills are the essential foundation for preparing college papers and reports. The wide variety of computer courses available allows students to select courses that give an overview of several software components or ones that specialize.

By enrolling in Accounting, students who anticipate majoring in accounting or finance areas have the opportunity to acquire a background in those areas prior to college enrollment.

Students who want to enter directly into business careers can acquire the skills necessary through careful selection of courses in the Business Computer and Information Technology area.

6010 COMPUTER AND CAREER AWARENESS

Grades 9

FULL YEAR
CREDIT: 0.5

Computer and Career Awareness will introduce students to potential careers in various career clusters. Students will complete self-assessments regarding their interests, aptitudes, and abilities and research their potential careers. Following an initial review of keyboarding skills, students will be introduced to Microsoft 365 Word, Excel, and PowerPoint. Students will use the Microsoft 365 to complete projects that integrate the information learned about the various career clusters. This course is required by all freshmen. **(Satisfies the computer technology requirement)**

6020 BUSINESS FUNDAMENTALS

Grades 9-12
Weighting: 10%

SEMESTER
CREDIT: 0.5

Business Fundamentals is intended to provide students with an overall knowledge of general business principles as well as immerse them in today's complex business and economic environment. The course will introduce various aspects of business including basic marketing concepts, corporate finance, management, traditional economics, business law, proprietorship, and ethics.

6030 SPORTS AND ENTERTAINMENT MARKETING

Grades 9-12
Weighting: 10%

SEMESTER
CREDIT: 0.5

Students will explore the intriguing world of sports and entertainment from a marketing perspective. Students will gain knowledge about marketing in areas such as college, amateur, professional sports, and entertainment events. In addition, this course will discuss topics such as the marketing mix, endorsements, public relations issues, entertainment profits, marketing plans, recreation marketing, and careers in sports marketing. Learn all the "behind the scenes" action of advertising to the sports and entertainment arenas.

6110 BUSINESS LAW

Grades 10-12
Weighting: 10%

SEMESTER
CREDIT: 0.5

Business Law will cover the student's relationship to law as a minor, as a consumer, and as a citizen in our society. Students will look at the basic criminal and civil wrongs people commit, the law enforcement, and the court systems involved. The many areas of contract law will be introduced as well as sales agreements and personal agreements.

6130 ENTREPRENEURSHIP

Grades 10-12

Prerequisite: Must Pass Business Fundamentals

Weighting: 10%

SEMESTER

CREDIT: 0.5

Are you interested in being your own boss, owning your own business, or creating a product to sell? Students will examine the major steps involved in starting a new business, including the marketing, financing, budgeting, managing, purchasing, staffing, and legal aspects. Students will be provided with real-world examples of entrepreneurs who have changed the business world. This course will be hands on, students will work with classmates for activities, and majority of work will be self-directed by students.

6220 PERSONAL FINANCE

Grades 10-12

SEMESTER

CREDIT: 0.5

This course will teach the student how to be a wise and informed consumer. Topics to be covered include money management, banking services, savings plans, credit, leasing and buying cars, automobile, home, medical, and life insurance plans, and consumer protection. Students will study consumer terminology, concepts, and mathematical operations. Calculators and simulations are used frequently as this course stresses problem solving and real-life scenarios. **(Satisfies the personal finance requirement)**

6270 ACCOUNTING 1

Grades 10-12

Weighting: 15%

FULL YEAR

CREDIT: 1.0

Accounting teaches the basic principles of managing money. Students learn how to chart assets, liabilities, owner equity, revenue, and expenses. Although personal financial accounting is discussed, the major emphasis of the course is in its role in the business world-service, merchandizing, and corporate accounting. The use of spreadsheets and other computer software is included. **This course may be used to satisfy the graduation requirement in mathematics.**

6285 MICROSOFT OFFICE CERTIFICATION

Grades 10-12

Prerequisite: Must pass Computer & Career Awareness

Weighting: 15%

FULL YEAR

CREDIT: 1.0

Microsoft Office Certification will provide students to proficiently use basic and advanced applications of Microsoft Word, PowerPoint, and Excel. This course will be a preparation for Microsoft Office* Specialist (MOS) certification for Microsoft Office upon completion. The purpose of this course is to prepare students to qualify for entry-level positions in the business/office sector and prepare students for college courses in a computer related field. **(Satisfies the computer technology requirement)**

6870 PROFESSIONAL FIELD EXPERIENCE (PFE)

Grade *12

SEMESTER/FULL YEAR

Weighting: 10%

CREDIT: Varies

Connecting classroom learning with career opportunities is an important component of the high school experience. Students wishing to gain experience in a particular career field may do so through the Professional Field Experience or PFE. Our PFE program provides students with opportunities to explore careers that match their personal interests and skills while gaining real-world experience and mentorship in an occupational field. These hands-on experiences allow students to be better prepared for their future and give them the flexibility to experiment with different occupations before they invest their time and money into further training or education after high school.

PFE is open to junior and senior students, may be paid or unpaid, and can be customized to meet a student's schedule and intended outcomes. The PFE may also include training or a post-secondary component. PFE students are released from school for 1 or more periods a day to attend their PFE at a business, non-profit organization, school, or other workplace setting. Students are expected to attend their PFE as assigned, have their own transportation to and from the PFE, dress appropriately for their worksite, and adhere to all workplace policies and procedures. In addition, students must set goals for their PFE and complete a public display of learning, such as a portfolio or presentation at the culmination of their PFE.

***Special permission may be granted to 11th graders to participate in a PFE on a case by case basis.**

Students are responsible for completing all required paperwork by the end of the school year prior to starting their PFE and are expected to work collaboratively with the Career Specialist to identify potential PFE locations.

6840 WORK EXPERIENCE

Grade 12

FULL YEAR

CREDIT: 3.0

Senior students enrolled in the Work Experience Program combine partial days of academic course work along with **at least 15 hours working on-the-job Monday through Friday**. The Work Experience program is assessed as pass or fail.

Work Experience students begin the program by meeting with the Work Experience Program Coordinator in May of their junior year and obtaining the Training Agreement and Program Policies forms. **Work Experience students are required to obtain a part time job during the summer months prior to their senior year.** Work Experience students and their employers complete the Training Agreement which outlines their responsibilities and expectations.

Students are required to obtain a work permit if under the age of 18. Students are required to electronically report their hours worked log plus their paystub to the Work Experience Program Coordinator every 2 weeks. Work Experience students must meet the required work time and reporting in order to pass each quarter and receive credit for the program.

DRIVER EDUCATION

Driver Education theory instruction is available online through the Berks County Intermediate Unit or through the PA Department of Education's online Driver's Education program. Students who successfully complete the 30-hour course and submit the "Certificate of Completion" to the School Counseling Department will receive .25 credits towards graduation. Students may register for the BCIU course on their website.

Behind - the - Wheel instruction is also available through the Berks County Intermediate Unit. Students who successfully complete 6 hours of driving experience and submit the "Certificate of Driver Training" to the School Counseling Department will receive .10 credits towards graduation. Students may register directly with the BCIU on their website.

ELECTIVES

9990 SERVICE-LEARNING ELECTIVE

Grades 9-12

CREDIT: 0.25

The purpose of the community service-learning elective is to provide students with an opportunity outside the classroom to investigate and learn about the Hamburg Area Community's history, government, and restoration while instilling an appreciation for the value and sense of pride associated with community service.

ENGLISH LANGUAGE ARTS



- Indicates that a Keystone Exam will be administered at the end of the course

Students are required to complete four years of English to be eligible for graduation and must meet the requirements of each grade-level English course in order to qualify for promotion. Each course develops and reinforces aspects of language arts including literature, writing, research, public speaking, grammar, and vocabulary.

Students who demonstrate competency and interest in this content and meet required prerequisites may elect to participate in the work of the advanced courses. The purpose of the advanced classes is to build on grade level skills and content to provide English students with a more challenging, rigorous program.

3025 ENGLISH 9

Grade 9

FULL YEAR
CREDIT: 1.0

This introductory course focuses on understanding the elements of three main areas of literature: fiction, non-fiction, and drama; students in this course hone close reading skills through the reading of these various genres. Additionally, this course is designed to help students transition to an analytical style of writing that requires the use of textual evidence. A secondary goal of this course is to prepare students for the Keystone exam.

3050 ENGLISH 9 (PS)

 NCAA

Grade 9

FULL YEAR
CREDIT: 1.0

Prerequisite: 80% or higher in 8th grade English

Weighting: 10%

Designed with post-secondary education in mind and an increased emphasis on academic rigor, this introductory course focuses on understanding the elements of three main areas of literature: fiction, non-fiction, and drama; students in this course hone close reading skills through the reading of these various genres. Additionally, this course is designed to help students transition to a more sophisticated analytical style of writing that requires the use of textual evidence. A secondary goal is to prepare students for the Keystone exam.

3075 HONORS ENGLISH 9

 NCAA

Grade 9

FULL YEAR
CREDIT: 1.0

Prerequisite: Teacher permission, a writing assessment, and
an 8th grade English score of 94% or higher, PVASS Projections

Weighting: 15%

Because this is a course that provides students with skills necessary for success in AP English classes, students are expected to arrive with a command of close reading, writing, speaking, and vocabulary skills. Students will further their mastery of the writing process, sharpen communication skills, and read and analyze challenging literature. A secondary goal of this course is to prepare students for the Keystone exams and initial preparation for the AP English courses. **Summer reading assignments may be required.**

3125 ENGLISH 10



Grade 10

FULL YEAR
CREDIT: 1.0

This Keystone course is designed to strengthen reading, writing, and speaking skills. Students will explore a variety of literature, including fiction, poetry, and nonfiction, to build skills in analysis and interpretation. Through thoughtful reading, discussions, and writing assignments, students will deepen their understanding of texts and develop their own ideas, supporting them in becoming more confident, effective communicators.

3150 ENGLISH 10 (PS)



Grade 10

FULL YEAR



Prerequisite: 80% or higher in 9th grade English

CREDIT: 1.0

Weighting: 10%

This Keystone course is designed for students pursuing post-secondary education and emphasizes advanced development in reading, writing, and speaking skills. Students will engage with a range of literary genres, including fiction, poetry, and nonfiction, fostering analytical and interpretative abilities. Through critical reading, discussions, and both formal and informal writing assignments, students will refine their interpretations and deepen their engagement with texts, preparing them for the rigorous demands of higher education.

3175 HONORS ENGLISH 10



Grade 10

FULL YEAR



Prerequisite: Teacher permission, a writing sample, and a

CREDIT: 1.0

90% or higher in Honors English 9

Weighting: 15%

This Keystone course is designed for advanced students planning to pursue post-secondary education and AP coursework, focusing on building sophisticated reading, writing, and analytical skills. Students will engage deeply with diverse texts, including fiction, poetry, and nonfiction, honing their ability to interpret and critique complex material. Through rigorous reading, in-depth discussions, and both formal and informal writing assignments, students will refine their analytical skills and strengthen their readiness for the demands of AP-level studies. **Summer reading assignments are required.**

3225 ENGLISH 11

Grade 11

FULL YEAR

CREDIT: 1.0

This English 11 literature course emphasizes the development of essential writing and analytical skills through a variety of literary works. Students will engage with various texts to craft well-supported argumentative and analytical responses, deepening their critical thinking and comprehension. The course also emphasizes research proficiency, equipping students to construct informed perspectives and effectively communicate with an audience. Additionally, students will have the opportunity to express their unique voices through narrative writing, fostering creativity and personal insight.

3250 ENGLISH 11 (PS)



Grade 11

Prerequisite: 80% or higher in 10th grade English

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This English 11 PS course sharpens students' critical reading, writing, and analytical skills, preparing them for post-secondary academic demands. Through an intensive study of diverse literary works, students will develop advanced argumentative and analytical responses, emphasizing evidence-based reasoning and coherence. The curriculum also strengthens research skills, guiding students to craft informed, persuasive perspectives for varied audiences. Additionally, students will engage in narrative writing, honing their voice and style to enhance both creative expression and reflective thinking. This course builds a solid foundation for college-level English and beyond. **Summer Reading assignments may be required.**

3390 AP ENGLISH LANGUAGE AND COMPOSITION



Grades 11-12



Prerequisite: Teacher permission, a writing sample, and a 90% or higher in Honors English 10

Weighting: 20%

FULL YEAR

CREDIT: 1.0

The AP English Language and Composition course focuses on rhetorical analysis of nonfiction text and the development and revision of well-reasoned, evidence-centered analytic and argumentative writing. This course requires students to become skilled readers of prose written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes. Course writings include critical essays, in-class timed essays, personal pieces, journals, as well as several research papers. **Summer reading assignments are required. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

3325 ENGLISH 12

Grade 12

FULL YEAR

CREDIT: 1.0

This English 12 course emphasizes the development of essential writing and analytical skills through a focused study of literature. Students will read a variety of texts, craft clear written responses, and learn to express ideas and arguments effectively. Through guided lessons in analytical, argumentative, and narrative writing, students will strengthen their understanding of themes, techniques, and historical context in literature. The course emphasizes drawing insights from multiple sources to create clear, engaging writing. By the end, students will be prepared to share their thoughts and ideas, communicating with an audience, both verbally and in writing.

3350 ENGLISH 12 (PS)



Grade 12

Prerequisite: 80% or higher in 11th grade English

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This English 12 PS course hones advanced writing and analytical skills through an in-depth exploration of literary works. Students will engage with a wide variety of texts, developing their ability to craft sophisticated written responses and articulate complex ideas. Through structured instruction in analytical, argumentative, and narrative writing, students will refine their ability to critically examine themes, literary techniques, and historical contexts. Emphasis is placed on synthesizing insights from multiple sources to create clear, compelling arguments and original narratives. This course prepares students to confidently convey ideas and perspectives, both in academic settings and beyond. Summer reading assignments may be required.

3390 AP ENGLISH LITERATURE AND COMPOSITION



Grades 11-12

Prerequisite: Teacher Permission, writing sample, and
90% or higher in AP Language and Composition

Weighting: 20%

FULL YEAR

CREDIT: 1.0

Students in this college level course will be expected to demonstrate a keen analysis of literature and strong analytical writing skills. Students will refine interpretive reading skills through the close study of various literary genres in British, American, and World literature. In addition to the reading, students will write regularly, including critical essays, in-class timed essays, journals, as well as two research papers. Students will also study intense vocabulary, grammar, and punctuation as it applies to writing. **Extensive summer reading requirements are required. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

3510 PUBLICATIONS

Grades 9-12

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This elective is for the self-motivated student who is thinking of a career in the field of communications. While refining writing and grammar skills, the students work together to produce the school yearbook, newspaper, programs for school events, and articles for school newsletters and The Northern Berks Patriot Item. Using various technologies including graphic design software, (the Adobe suite focusing on InDesign), the students are involved in all stages of production: brainstorming ideas, gathering information, writing articles, taking photographs, proofreading, designing layouts, meeting deadlines, and participating in team projects. Students also complete independent study projects on topics such as: the writing process, copyright law, ethics, photography, graphic design, and journalistic style. **(Satisfies the computer technology or the fine arts requirement)**

3520 VIDEO COMMUNICATION

Grades 9-12

FULL YEAR
CREDIT: 1.0

Students in this elective class will learn the skills of pre-production, production, and post-production filming and editing while heightening their awareness of the power of video as a medium of communication. Students will learn the skills to operate video, audio, and light equipment and industry standard Adobe Premiere Pro editing software. Working individually and in teams, students will create videos for the school, the community, and themselves, practicing the roles of planning, script writing, filming, editing, and directing. **Students having already completed the Video Communication class may take it again for advanced work. (Satisfies the computer technology or the fine arts requirement)**

INDUSTRIAL TECHNOLOGY AND ENGINEERING

The industrial technology and engineering curriculum present courses that develop higher order thinking skills and problem solving by practical applications. Students are welcome to take individual courses to explore their interest in the field of industrial technology and engineering or participate in the Engineering Design Academy.

7041 TABLETOP GAME DESIGN (GTD)

Grades 9-12

SEMESTER
CREDIT: 0.5

Unleash your creativity and design your own board, card, or roleplaying game in Tabletop Game Design! This introductory course, open to all students, explores why we play games, the core structure of all games, and the game design process. Learn how to develop engaging mechanics, craft balanced rules, and bring your ideas to life through hands-on prototyping and playtesting. Whether you love strategy games or party games, this course will give you the tools to create something unique! **(Satisfies the STEM credit or the fine arts requirement)**

7042 VIDEO GAME DESIGN (GTD)

Grades 9-12

SEMESTER
CREDIT: 0.5

Step into the world of game development with Video Game Design! This introductory course, open to all students, covers the fundamentals of video game design, programming basics, and the industry's biggest challenges. Explore what makes a great game, experiment with coding, and create your own digital project. Work with tools from companies like Microsoft and Riot Games while developing the skills to bring interactive worlds to life. No prior programming experience required! **(Satisfies the STEM credit or the fine arts requirement)**

7057 ENGINEERING IN ACTION (EES)

Grades 9-12

SEMESTER
CREDIT: 0.5

Discover how engineers bring ideas to life in Engineering in Action! Explore the engineering design process, product development, and the mechanics behind real-world solutions. Learn how engineers analyze forces, build mechanical systems, and create designs that improve lives. Through hands-on projects, teamwork, and problem-solving, you'll apply engineering concepts to challenges like disaster relief and product innovation. This course is perfect for students who want to see engineering in motion and experience the impact of design in action! **(Satisfies the STEM credit)**

7058 BLUEPRINTS FOR A BETTER WORLD (EES)

Grades 9-12

SEMESTER
CREDIT: 0.5

Engineers shape the world around us—now it's your turn! Blueprints for a Better World focuses on the tools and techniques engineers use to solve problems and improve everyday life. Dive into the design process, engineering standards, materials, and automation while exploring how forces and mechanisms work. Reverse-engineer existing products to understand their inner workings and develop innovative solutions to real-world challenges. This hands-on course is perfect for students ready to think critically, design creatively, and engineer a better future! **(Satisfies the STEM credit)**

7161 PRINCIPLES OF ENGINEERING 1 (POE)

7162 PRINCIPLES OF ENGINEERING 2 (POE)

Grades 10-12

SEMESTER
CREDIT: 0.5

Explore how modern engineers are helping to improve the world through diverse engineering fields such as product design, robotics, mechanical design, infrastructure, and sustainability. Learn the principles of engineering as well as the cutting-edge tools of robotics, 3-D modeling, programming, and prototyping that engineers are using to solve problems today and for the future! Students will have a choice of topics and will have autonomy in what they learn. Students may take this course twice - when taking it a second time, choose Principles of Engineering 2. This is a more advanced course, requiring critical thinking and problem-solving skills. **(Satisfies the STEM credit)**

7065 COMPUTER SCIENCE ESSENTIALS

Grades 9-12

Weighting: 10%

FULL YEAR

CREDIT: 1.0

Computer Science Essentials is an engaging and comprehensive exploration into the foundational principles of computer science. This course offers a dynamic learning journey, starting with block-based programming and seamlessly progressing towards professional languages like Python. Students will delve into the world of app development for Android and iOS platforms, empowering them to create their own innovative applications. Additionally, the course encompasses hands-on experiences in robotics programming, game development, and the creation of programs that interface with the physical world using versatile hardware like Raspberry Pi, Arduino, and more. By fostering creativity and problem-solving skills, students will acquire a robust understanding of computer science concepts while actively applying them to real-world projects.

7012 MATERIALS PROCESSING

Grades 9-12

FULL YEAR

CREDIT: 1.0

Materials Processing is a course designed for individuals eager to learn the fundamentals of machining materials in order to create everyday products we use. The course places a strong emphasis on safely and accurately operating common hand tools and machinery used in wood, metal, and plastic fabrication. Through hands-on projects such as building coat racks with custom hangers, creating LED room signs, or constructing a sheet metal toolbox, students will develop essential skills that align with modern manufacturing practices and prepare them for today's workforce. **(Satisfies the fine arts requirement)**

7110 WOODWORKING

Grades 10-12

Prerequisite: Wood Technology

Weighting: 10%

FULL YEAR

CREDIT: 1.0

Students explore various principles of technology through the medium of wood. The use of wood as a material for construction of buildings, furniture, and equipment, as well as its use in crafting will be investigated. Students will learn to use hand and power tools and develop skills in a variety of techniques and processes ranging from reading prints and developing project plans to joinery techniques and finishing procedures. This course may be scheduled every year and is designated Woodworking 1, 2, 3. As students' progress through the years, they are challenged to apply increasing levels of sophistication to class projects. **(Satisfies the fine arts requirement)**

7020 HOME REPAIR/CONSTRUCTION AND DESIGN

Grades 9-12

FULL YEAR
CREDIT: 1.0

This is a course designed to give students a base knowledge of practical experiences of repair and construction jobs around the home. This course will provide you with all the basic information needed to understand and use hand tools, power tools, fasteners, and assorted building materials for the repair/construction of your home. You will gain knowledge of building structures and their various systems that need to be repaired or maintained. This course also teaches you the skills and techniques used in carpentry, masonry, plumbing, electricity, and other building trades. Coverage of topics such as repair of roofs, gutters, walls, floors, concrete, furniture, water and waste systems, electrical wiring systems, heating and cooling systems, and insulation. Proper attention to all housing systems is stressed to prevent costly bills for the DIY individual in the future.

7355 PROFESSIONAL CERTIFICATION

Grades 10-12

SEMESTER
CREDIT: 0.5

Professional Certification is a course that gives a student the opportunity to choose an advanced software application and complete his or her training in it. Examples include, but are not limited to, Autodesk design software, Unity 3D, and programming. This course provides students with the tools to learn the advanced applications of these programs and is a preparation for taking a certification exam at the end of the course. This course offers an immersive, project-oriented approach to skills learning. The purpose of this course is to provide students with much sought-after skills and industry standard certifications to prepare students for technical training, college courses in Drafting and Design, Game Design, Simulation, or Engineering, and for the workplace. This course can be taken multiple times sequentially or concurrently, each time for a different piece of software.

MATHEMATICS



- Indicates that a Keystone Exam will be administered at the end of the course

Mathematics provides the basis for every field wherein measurement is required. As a discipline, it enables students to think clearly, sequentially, and logically. Students should choose mathematics courses which will provide the background necessary to pursue desired career goals. The sequences are designed to meet varied needs. A student is able to move from one sequence to another or to schedule concurrent courses with department approval provided that the prerequisites (if any) have been met. The forward progression of courses will always be required. Each student must consult with his or her math teacher in order to receive their math teacher's recommendation and approval for the next course. At the end of the school year, all course selection recommendations and student grades will be reviewed. If a student's grades have changed in such a way that the chosen course prerequisite has not been met, the student may not move on to that course.

1015 ALGEBRA 1A

Grades 9-11

FULL YEAR

Prerequisite: 8th Grade Math and Teacher Recommendation

CREDIT: 1.0

This Algebra 1A course is designed to contain the first portion of the Algebra 1 curriculum. The course takes an approach that allows students to sharpen the math skills learned in middle school while applying those skills to the study of Algebra. Included in the curriculum is an emphasis on conceptual development. Course material covers the Real Number System, radicals, GCF/LCM with monomials, polynomial operations, solving one-variable equations, and solving and graphing one-variable inequalities.

1025 ALGEBRA 1



Grades 9-11

FULL YEAR



Prerequisite: 8th grade Math or
below a 60% in 8th grade Algebra 1

CREDIT: 1.0

Students entering ninth grade who have not taken an Algebra I course previously should start their high school sequence with this mathematics course. Students who took Algebra I in middle school and earned a failing grade should also start high school with this course. Students taking Algebra 1 may still qualify for future post-Secondary courses. In Algebra 1, students learn the basic definitions, terminology, and rules necessary for the complete algebra sequence. An emphasis on reasoning and justification of algebraic processes is introduced. Radicals, polynomials, and solving and graphing one- and two-variable equations and inequalities are covered in depth. A heavy emphasis is placed on the standards outlined for the Algebra 1 Keystone Exam.

1125 ALGEBRA 2

Grades 9-12

FULL YEAR

Prerequisite: Algebra 1 or

CREDIT: 1.0

between a 60-79% in 8th Grade Algebra 1 (recommended average)

This course is designed to present the essential skills of Algebra 2. Throughout this course students will review solving equations, graphing linear equations and inequalities, solving systems of equations and inequalities (2x2), probability and statistics. Students will also study solving literal equations, graphing and solving quadratic equations, factoring, simplifying polynomials and rational exponents, solving radical equations, and simplifying rational expressions.

1150 ALGEBRA 2 (PS)

NCAA Grades 9-10 FULL YEAR
Prerequisite: 80% in high school Algebra 1 (recommended average) or CREDIT: 1.0
80% in 8th grade Algebra 1 (recommended average)
Weighting: 10%

This course is designed for students who intend to pursue the higher level mathematics courses. Throughout this course students will study solving systems of equations and inequalities (2x2 and 3x3), manipulating complex matrices and determinants, graphing and solving quadratic equations, factoring, factoring beyond a quadratic, graphing and solving polynomial equations, simplifying polynomials and rational exponents, solving and graphing radical equations, simplifying rational expressions and solving rational equations.

1175 HONORS ALGEBRA 2

NCAA Grades 9-10 FULL YEAR
Prerequisite: Teacher Recommendation, PVASS Projections and CREDIT: 1.0
90% in 8th grade Algebra 1 (recommended average)* or
95% in high school Algebra 1 (recommended average)*
Weighting: 15%

This course is designed for those students who plan to proceed through the advanced curriculum in order to take AP Calculus in their senior year. Emphasis is placed on critical thinking skills, strengthening and extending mathematical vocabulary, manipulating complex matrices and determinants, factoring polynomial expressions, graphing a variety of function types, and solving quadratic equations, solving polynomial equations, solving radical equations, solving exponential equations, and rational expressions.

***High school students who wish to accelerate into an Honors section from a non-Honors section must successfully complete a department-produced packet of supplemental work. This packet must be done by the announced deadline.**

1325 ALGEBRA 3/TRIGONOMETRY

NCAA Grades 11-12 FULL YEAR
Prerequisite: Plane Geometry and Algebra 2 CREDIT: 1.0

This course is designed for the student with a good understanding of Algebra 2. Algebra 3 entails a thorough coverage of radicals, exponents, and linear equations. Inequalities, quadratic equations, polynomials, complex numbers, and rational equations are covered in depth. The study of Trigonometry includes basic definitions and properties, graphing of trigonometric functions, and solving triangles. Application of trigonometric properties to real-life problems is emphasized to provide the student with a sense of the practicality and usefulness of the subject matter.

1225 PLANE GEOMETRY

Grades 10-12

FULL YEAR

Prerequisite: Algebra 2 or Below a 76% in Algebra 2 (PS) or

CREDIT: 1.0

Algebra 1A and Algebra 1 (Teacher Recommendation)

Plane Geometry is a course designed to present the essentials of geometry. Basic constructions will be included in course concepts. Students study the properties of congruence, angles, and polygons. Similarity, analytic geometry, and measurements (in the form of circumference, area, perimeter) are stressed. The study of triangles is also stressed. The concepts of parallel and perpendicular lines and the Pythagorean Theorem are included in this course.

1250 PLANE GEOMETRY (PS)

NCAA

Grades 10-11

FULL YEAR

Prerequisite: 95% in Algebra 2 or 76% in Algebra 2 (PS)

CREDIT: 1.0

Weighting: 10%

The study of Plane Geometry PS helps students to develop deductive reasoning powers and provides a foundation for more advanced mathematics courses. Special emphasis is placed on using theorems, corollaries, and postulates to enable the student to prove congruence in triangles and quadrilaterals. Parallel lines, proportions, and similarity including numerical computation are also studied. Plane Geometry PS is a college preparatory geometry course.

1275 HONORS PLANE GEOMETRY

NCAA

Grades 10-11

FULL YEAR

Prerequisite: Teacher Recommendation and

CREDIT: 1.0

85% in Honors Algebra 2 (recommended average) or Teacher

Recommendation and 95% in Algebra 2(PS) (recommended average)*

Weighting: 15%

This course is designed for those students who plan to proceed through the advanced curriculum in order to take AP Calculus in their senior year. Great emphasis is placed on the application of theorems, postulates and corollaries in geometric proofs involving triangles, quadrilaterals, and circles. In addition, special attention is devoted to area, volume, circumference, and the study of right triangles in preparation for trigonometry.

***High school students who wish to accelerate into an Honors section from a non-Honors section must successfully complete a department-produced packet of supplemental work. This packet must be done by the announced deadline.**

1520 CONSUMER MATHEMATICS

Grades 11-12

FULL YEAR

Prerequisite: Algebra 1

CREDIT: 1.0

Consumer Mathematics places emphasis for all students, regardless of their plans after graduating, in life-related problem-solving skills using the basic arithmetic operations with whole numbers, fractions, decimals, and percentages. Topics include consumer literacy, consumer credit, housing, income and budgeting, taxes, investments and insurance. Students study consumer terminology, concepts, and mathematical operations. Calculators are used frequently as this course stresses problem solving, not arithmetic review. This course is reserved for seniors; however, juniors may be admitted provided that they are enrolled in a second math course at the same time.

1350 PRECALCULUS

NCAA

Grades 11-12

FULL YEAR

Prerequisite: 75% in Plane Geometry (PS) (recommended average)
and 85% in Algebra 2 (PS) or 95% in Algebra 2

CREDIT: 1.0

Weighting: 10%

This course is designed for those students who plan to take Calculus. It includes a thorough discussion of solving equations and inequalities. An introduction to theory of equations is also covered. The study of trigonometry covers the basic definitions and properties. Identities are covered along with their use in solving equations. Solution of right and oblique triangles is studied along with using logarithms to perform more complex arithmetic operations and to solve logarithmic equations. Graphing of functions is covered in depth including polynomial, rational, exponential, logarithmic, and trigonometric.

1375 HONORS PRECALCULUS

NCAA

Grades 11-12

FULL YEAR

Prerequisite: 80% in Honors Plane Geometry (recommended average) and
85% in Honors Algebra 2 (recommended average)

CREDIT: 1.0

Weighting: 15%

This college level course is designed for those students who plan to take AP Calculus. It includes a thorough discussion of solving equations and inequalities. An introduction to theory of equations is also covered. The study of trigonometry covers the definitions and properties. Identities are covered in depth along with their use in solving equations. Solution of right and oblique triangles is studied along with using logarithms to perform more complex arithmetic operations and to solve logarithmic equations. Graphing of functions is covered in depth including polynomial, rational, exponential, logarithmic and trigonometric. Polar coordinates and complex numbers are studied. Conic sections, vectors and determinants will be introduced.

1475 CALCULUS



Grade 12

Prerequisite: 75% in Precalculus (recommended average)

Weighting: 15%

FULL YEAR

CREDIT: 1.0

This is a college level course. The class completes the topics not covered under the Precalculus course outline, then pursues a discussion on curve sketching, differential calculus, and integrals. Other applications in differential and integral calculus are covered as time permits.

1490 AP CALCULUS AB



Grade 12

Prerequisite: 85% in Honors Precalculus (recommended average)

Weighting: 20%

FULL YEAR

CREDIT: 1.0

This is a college level course. The class pursues a discussion on curve sketching, differential calculus and integral calculus. Applications of differentiation and integration will be covered in depth. This course is focused on preparing for the Advanced Placement exam, and it will be studied through the use of the graphing calculator. This course may not be taken on a pass/fail basis. **This course requires summer work to be completed prior to the start of the school year. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

1555 PROBABILITY & STATISTICS



Grade 12

Prerequisite: Algebra 2 and Plane Geometry

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This course surveys the use of statistics and the impact statistics have on the world around us. Probability as a tool for generating statistics is discussed. Students discover how to use statistics to make decisions and how statistics can be misused. By utilizing realistic hands-on situations and simulations, students experience practical and useful applications of statistical principles. This course is designed as an elective primarily for seniors and is useful for both career prep and college prep students. Juniors may take this course only if they are also enrolled in a required course at the same time.

MUSIC

The high school music program offers a variety of courses to develop and refine musical skills. All students must complete a fine arts class (designated music or art elective) in order to fulfill the graduation requirement.

The comprehensive music curriculum prepares students for courses in music education, performance, composition, and theatre arts.

8540 VOICE CLASS

Grades 9-12

SEMESTER
CREDIT: 0.5

This new course offers a beginning introduction to the voice. Instruction includes vocal health, vocal anatomy and tone production, vocal ranges, audition and performance tips, and vocal repertoire (classical, folk, pop). Students in this course should expect to SING! (vocal warm-ups, exercises, sight singing, voice lessons) **(Satisfies the fine arts requirement)**

8610 PIANO I

Grades 9-12

SEMESTER
CREDIT: 0.5

This one semester class is designed for students who are eager to explore music while learning how to play the piano. Using pianos and keyboards, students will be introduced to music theory and the fundamentals of piano (technique, hand positioning, posture). Students will try music games, practice varied repertoire of simple melodies and chords, listen to both online and live piano performances, and play music for themselves and others. **(Satisfies the fine arts requirement)**

8615 PIANO II

Grades 9-12

Prerequisite: Piano I/Teacher Permission

Weighting: 10%

SEMESTER
CREDIT: 0.5

This class is an independent study that is designed for students who have had piano or are familiar with the keyboard and reading of two clefs. Students who have had more than one year of piano instruction or the Piano I class may take this course. Focus will be on sight-reading, repertoire on the grand staff, composition for the piano, and interpretation of various styles. **(Satisfies the fine arts requirement)**

8640 BEGINNING GUITAR

Grades 9-12

SEMESTER
CREDIT: 0.5

This beginning course introduces students to basic guitar playing. Instruction includes history of the guitar, parts of the 6 stringed instrument, basic chords and notes with strumming and finger picking, and simple melody and chord songwriting. Students will listen to various styles of guitar music such as folk, classical, and rock. A classical acoustic guitar is provided for each student to use throughout the semester long course. **(Satisfies the fine arts requirement)**

8645 BEGINNING UKULELE

Grades 9-12

SEMESTER
CREDIT: 0.5

This beginning course offers a complete introduction to the ukulele. Instruction includes history of the ukulele, parts of the 4 stringed instrument, basic chords and notes with strumming and picking, strumming while singing, and beginning composition. A soprano ukulele is provided for each student to use throughout the semester long course. **(Satisfies the fine arts requirement)**

8660 EXPLORING MUSIC TECHNOLOGY

Grades 9-12

SEMESTER
CREDIT: 0.5

This project-based course is designed for students eager to dive into the endless possibilities of music production, composition, and sound design. No music experience is necessary for this class. Students will have hands-on experience with current technologies. There will be opportunities for you to produce remixes and mash-ups, make podcasts, and create original work.

8825 CONCERT CHOIR

Grades 9-12

Weighting: 10%

FULL YEAR
CREDIT: 0.5

This ensemble rehearses three times per six-day cycle. The high school choir performs a variety of music to develop the student's musicianship skills. Performances at scheduled concerts are mandatory since these concert performances are the culminating effort of our rehearsals and each is the equivalent of a final exam. Students will be required to take vocal tests each semester in order to maintain their position in the choir. **(Satisfies the fine arts requirement)**

8855 CONCERT BAND

Grades 9-12

Prerequisite: Middle School Band or Audition

Weighting: 10%

FULL YEAR
CREDIT: 0.5

This is a non-select band which rehearses three times per cycle during school hours and requires some out-of-school rehearsal time. The band prepares and performs a variety of marching and concert band music and provides music for parades, halftime shows and other sports and concert events. **(Satisfies the fine arts requirement)**

8865 CONCERT ORCHESTRA

Grades 9-12

Prerequisite: Middle School Orchestra or Audition

Weighting: 10%

FULL YEAR

CREDIT: 0.5

This ensemble rehearses two times per six-day cycle. The high school orchestra performs a variety of music to develop the student's musicianship skills. Performances at scheduled concerts are mandatory since these concert performances are the culminating effort of our rehearsals and each is the equivalent of a final exam. Students will be required to take playing tests each quarter in order to maintain their position in the orchestra. **(Satisfies the fine arts requirement)**

8910 MUSIC MAJOR

Grades 10-12

Prerequisite: Member of Band/Concert Choir/ Orchestra and/or
Permission from Music Teachers.

Weighting: 15%

PPC: 3

FULL YEAR

CREDIT: 0.5

This advanced course is designed for students seriously interested in a career in music. Students will learn advanced music theory and history, ear training, orchestration, composition, counterpoint, beginning conducting, music literature, and keyboard lab skills. Students will keep a music notebook for written musical compositions and class materials. The course will cover college level theory material and will prepare the student for college entrance exams and auditions. This course may be scheduled every year and is designated as Music Major 1, 2, 3. **(Satisfies the fine arts requirement)**

SCIENCE



- Indicates that a Keystone Exam will be administered at the end of the course

The science curriculum is designed to emphasize the process of scientific inquiry so that students can think clearly, solve problems, participate in scientific discoveries, and interpret scientific data. These areas of emphasis are designed to fulfill three goals for students: (1) to prepare for further study and potential careers in biology, medicine, chemistry, physics, environmental science, etc.; (2) to instill such ongoing scientific curiosity that the student will continue to ask and answer scientific questions; and (3) to develop an appreciation for the role of science and scientists in the world of expanding technology. Inquiry and curiosity are stimulated through lecture and discussion, review of current scientific literature, and laboratory activities.

2025 INTEGRATED SCIENCE



Grade 9

FULL YEAR

CREDIT: 1.0

This course focuses on the analysis and understanding of natural phenomena through investigations and inquiry. Students will apply critical thinking skills to address testable questions in a scientific manner. Students will work to build their science skills through the study of natural phenomena related to physical, life, and earth and space sciences.

2425 ENVIRONMENT & NATURAL RESOURCES



Grades 9-12

FULL YEAR

Weighting: 10%

CREDIT: 1.0

In this course, students will apply research and analytical skills to investigate environmental issues which occur at local, regional, and global levels. Students will engage in projects, experiments, and discussions to develop a better understanding of environmental problems and to analyze their potential solutions. Topics of study include natural resource use, air and water quality, population studies, biodiversity, watersheds, agriculture, waste management.

2490 AP ENVIRONMENTAL SCIENCE



Grades 10-12

FULL YEAR



Prerequisites: Biology and Chemistry (or taking Chemistry concurrently)

CREDIT: 1.4

Weighting: 20%

In this college level course critical and analytical thinking skills will be developed to prepare students for a college science curriculum and the Advanced Placement exam. Areas of study will include earth systems and resources, ecology, population biology, land use, water use, mining, energy resources and consumption, pollution, and global change. Students will identify and analyze environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing these problems. Summer work is required for this course. **Summer work must be picked up and completed prior to the start of the school year. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

2125 BIOLOGY



Grade 10

FULL YEAR

Prerequisite: Integrated Science

CREDIT: 1.0

Biology is the study of living things and their environment. Students will learn concepts related to cell biology and reproduction, genetics, protein synthesis, and evolution. The course will prepare the student for the Keystone Exam in Biology which will be taken at the end of the course.

2150 BIOLOGY (PS)



Grade 10

FULL YEAR



Prerequisite: 90% in Integrated Science and teacher recommendation

CREDIT: 1.0

Weighting: 10%

Biology is the study of living things and their environment. Students will learn concepts related to cell biology and reproduction, genetics, protein synthesis, evolution, and biochemistry. Biology (PS) is strongly recommended for those students who plan to attend a post-secondary institute of learning. This course will be faster-paced and more in-depth than Biology. Students interested in this course should have strong reading comprehension and time-management skills, as well as the ability to regularly complete independent assignments in and out of the classroom. The course will prepare the student for the Keystone Exam in Biology which will be taken at the end of the course.

2175 HONORS BIOLOGY



Grades 9-10

FULL YEAR



Prerequisite: 94% in 8th grade Science or Integrated Science, teacher recommendation, PVASS Projections

CREDIT: 1.2

Weighting: 15%

Biology is the study of living things and their environment. Students will learn concepts related to cell biology and reproduction, genetics, protein synthesis, evolution, biochemistry, and ecology. Honors Biology is strongly recommended for those students who plan to attend a post-secondary institute of learning, particularly a college or university. This class is designed for students who are academically ready to take on a college-preparatory science course, as well as students looking to take advanced placement (AP) courses as high school upperclassmen. This course will be an intense and more in-depth exploration of the content than seen in Biology or Biology (PS). Students interested in this course should have strong reading comprehension and time-management skills, as well as the ability to regularly complete independent assignments in and out of the classroom. The course will prepare the student for the Keystone Exam in Biology which will be taken at the end of the course.

2190 AP BIOLOGY



Grades 10-12

Prerequisite: 90% in Biology (PS or HNRS)

86% in Chemistry (PS or HNRS) or taking Chemistry concurrently with Biology teacher recommendation

Weighting: 20%

FULL YEAR

CREDIT: 1.4

This inquiry-based course is designed to be the equivalent of a college introductory biology course and will prepare students to take the AP exam at the conclusion of the class. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing field of biology. AP inquiry instruction encourages students to build knowledge, think critically, and develop an understanding of how scientists study the natural world. This intense course will cover topics such as ecology, evolution, cell biology, genetics, microbiology, biochemistry, and molecular biology. AP Biology is designed for students considering careers in scientific research and development, medicine, pharmaceuticals, biotechnology, genetics and beyond. **Summer work is required for this course. Internet access to complete assignments will be required. If a student cannot arrange technology access on their own, a student may request permission from IT and the course instructor to borrow a computer over the summer to complete summer assignments via a written request. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

2250 CHEMISTRY (PS)



Grades 10-12

Prerequisite: Algebra

Weighting: 10%

FULL YEAR

CREDIT: 1.0

Chemistry is a study of the structure and composition of matter and the changes that matter undergoes during chemical reactions. Concepts such as atomic theory, covalent & ionic bonding, types of chemical reactions, stoichiometry, phases of matter, and solutions may be presented along with activities that require algebra to develop problem-solving techniques. This course may also include some laboratory work to supplement the theoretical concepts.

2275 HONORS CHEMISTRY



Grades 10 - 11

Prerequisite: 86% in Honors Biology or 90% in Biology P.S. and Algebra 1 CREDIT: 1.2

Weighting: 15%

FULL YEAR

The focus of Honors Chemistry is the study of matter-its structure, composition, and changes. This course is strongly recommended for those students who wish to pursue upper-level science classes in their junior and senior years. Honors Chemistry meets the chemistry prerequisite for post-secondary schools that offer science-related majors. Focus will be on theoretical and practical application and problem solving for all chemical theories leading to Advance Topics in Chemistry and freshman chemistry in college. The subject matter of this course is taught at an accelerated pace utilizing higher-level thinking skills and practices. A lab session is included with this class.

2610 EXPLORING CHEMISTRY

Grades 11-12

SEMESTER

Prerequisite: Integrated Science, Biology

CREDIT: 0.5

This introductory chemistry course is designed to allow exploration between chemistry and other domains of science. This course focuses on “cause and effect” concepts with practical relevance, allowing students to develop a coherent and scientifically informed view of the world around them. **This course is not intended for students who wish to pursue a career in the science or medical fields.**

2285 ADVANCED TOPICS IN CHEMISTRY

Grades 11-12

FULL YEAR

NCAA Prerequisite: Chemistry (Honors or PS) & Algebra

CREDIT: 1.0

Weighting: 20%

This course is recommended for students who will be entering college in either a liberal arts or science curriculum. In this course the student will build upon those concepts and skills established in Chemistry and pursue new avenues of learning in the areas of kinetic molecular theory, solution mechanics, chemical bonding, acid-based chemistry, reaction equilibria, electrochemistry, redox reactions, state functions, and organic chemistry. Inquiry based labs and projects are included in this course.

2575 ANATOMY AND PHYSIOLOGY

NCAA

Grades 10 -12

FULL YEAR

Prerequisite: Biology (PS) or Honors Biology

CREDIT: 1.0

Weighting: 15%

This course has been designed to concentrate on the intricate workings of the human body. It consists of an in-depth study of anatomical structures, physiological pathways, and medical terminology. Major organ systems studied in this class include skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Students will be required to participate in multiple dissections including bone, brain, heart, and fetal pig to help facilitate the important connection between the structure of specific organs and their functions. The course is planned to further prepare the student for majoring in Biology, Pre-Med, Nursing, Lab Technology, Physical Therapy, or other health-related and science occupations.

2375 HONORS PHYSICS

NCAA

Grades 11-12

FULL YEAR

Prerequisite: 86% in Honors Chemistry or 90% in Chemistry P.S.
and Algebra 2

CREDIT: 1.2

Weighting: 15%

Honors Physics is designed for students that wish to pursue upper-level science classes in their junior or senior year. Analytical procedures are applied throughout the course. Emphasis is also placed on physics concepts to explain phenomena that students observe in everyday life.

2350 PHYSICS (PS)

NCAA

Grades 11-12

Prerequisite: Algebra

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This course is an introduction to the basic principles of physics including mechanics, light, and sound. Emphasis is placed on applying physics concepts to explain phenomena that students observe in everyday life. Complex mathematics computations are not required.

2390 AP PHYSICS 1

NCAA

Grades 11-12

Prerequisite: 80% Honors Algebra 2 &

taking Honors Geometry or higher concurrently

Weighting: 20%

FULL YEAR

CREDIT: 1.4

The AP Physics 1 course is a non-calculus based, college level physics course. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; simple harmonic motion; and fluids. This course focuses on preparing the students for the Advanced Placement Physics 1 exam. **This course prepares students for the AP exam which may lead to college credit (score needed depends on individual colleges)**

2510 FORENSIC SCIENCE 1

Grades 10-12

Prerequisites: Integrated Science (completed)

SEMESTER

CREDIT: 0.5

Forensic Science 1 is an introductory forensic science course written for high school students that focuses on observation skills, identification and collection of physical evidence, processing and investigating crime scenes, fingerprinting, and the recognition of manner, mechanism, and cause of death. This course will heavily involve student in laboratory-based assignments, crime scene investigations, and analyzing and reporting their findings.

2515 FORENSIC SCIENCE 2

Grades 11-12

Prerequisites: Biology (completed)

Weighting: 10%

SEMESTER

CREDIT: 0.5

Forensic Science 2 is an extension of the learning that takes place in Forensic Science 1. This course will focus on topics such as the in-depth study of types of physical evidence such as forensic anthropology, odontology, blood stain analysis, and entomology and decomposition. This course will heavily involve students in laboratory-based assignments, crime scene investigations, and analyzing and reporting their findings.

2560 INFECTIOUS DISEASES



Grades 11-12

SEMESTER

Prerequisite: 86% in Biology (PS or HNRS)

CREDIT: 0.5

86% in Chemistry (PS or HNRS) or taking Chemistry concurrently

Weighting: 20%

The interests of pathogens are often at odds with those of humans. As a result, microbial diseases occur often, and emerging diseases are frequently in the news. The more we disturb the balance of nature and increase world-wide travel, the more often we increase the scope of disease outbreaks. In this rigorous, lab-based course, we will explore the fields of virology, microbiology, epidemiology, and immunology to gain an understanding of what makes us sick and how our body works tirelessly to keep us healthy. This course is recommended as a complement to course work in Anatomy and Physiology and/or AP Biology. **Dual Enrollment college credits may be available through RACC.**

2520 THE COSMIC LANDSCAPE



Grades 10-12

SEMESTER

CREDIT: 0.5

Can you identify The Big Dipper? Design a rover to explore Mars? Become an astronomer and learn more about the cosmic landscape. In this course, students will learn about “the dark side of the moon”, explore each of the planets, and discuss theories on how the solar system was formed. Explore the cosmic landscape through hands-on activities, internet-based technologies, and project design.

2530 STARS AND GALAXIES



Grades 10-12

SEMESTER

CREDIT: 0.5

Why do stars like our Sun exist? Why do they explode when they die? Do colors of light exist beyond what our eyes can see? Become an astronomer and answer these questions, plus more. Students who take Stars and Galaxies will learn about stars, galaxies, and light through activities, projects, and observations through telescopes.

2612 INTRODUCTION TO GEOSPATIAL TECHNOLOGIES (GIS)

Grades: 10-12

SEMESTER

Prerequisite: Integrated Science

CREDIT: 0.5

Geospatial technology is an emerging field of study that includes Geographic Information Systems (GIS), Remote Sensing (RS), and Global Positioning Systems (GPS). It enables us to acquire data that is reference to the earth and use it for analysis, modeling, simulations, and visualization. One method of collecting data is through Unmanned Aerial Vehicles (UAV), called drones. Each unit of this course will cover a different area of the technology, followed by a summative project that demonstrates knowledge of the concepts presented.

SOCIAL STUDIES

The social studies curriculum is built upon the foundation disciplines of history, geography, economics, sociology, psychology, anthropology, and political science. The specific courses and topics which comprise the curriculum rest on this foundation and focus on the past, present and future interaction of human beings and their environment.

The special purpose of social studies is citizen education and the civic learning of each individual. The Hamburg Area School District has as its goal the development of a contributing and productive individual possessing self-awareness, knowledge, skills, and a sense of responsibility as a member of the family, school, local community, state, nation, and the world.

4025 CIVICS

NCAA

Grade 9

FULL YEAR

CREDIT: 1.0

This course concentrates on the organization and function of our national, state, and local governments. The study is designed to target the principles and practices of our democratic system of government with an emphasis placed on how the federal government operates and its impact on society through American historical examples. This course requires students to complete projects along with a cross-curriculum field trip to historic Philadelphia.

4075 HONORS CIVICS

NCAA

Grade 9

FULL YEAR

Weighting: 15%

CREDIT: 1.0

This course concentrates on the organization and function of our national, state, and local governments. The study is designed to target the principles and practices of our democratic system of government with an emphasis placed on how the federal government operates and its impact on society through American historical examples. This course requires students to complete projects along with a cross-curriculum field trip to historic Philadelphia. Students are expected to connect large units of material with their conceptual basis. Methods of evaluation will be challenging a greater range of projects involving research, role playing, oral presentations, writing assignments and group discussions will be used.

4125 WORLD CULTURES

Grade 10

FULL YEAR

CREDIT: 1.0

World Cultures covers all aspects of cultural development of the world from the Reformation (1500's) through World War I (1918). It uses both time perspective and current events to illustrate cultural developments in the western and non-western world. The course brings out the importance of economic, geographic, political, and social influences upon the formation of the combined cultural regions of the world.

4150 WORLD CULTURES (PS)

NCAA

Grade 10

Weighting: 10%

FULL YEAR

CREDIT: 1.0

World Cultures covers all aspects of cultural development of the world from the Reformation (1500's) through World War I (1918). It uses both time perspective and current events to illustrate cultural developments in the western and non-western world. The course brings out the importance of economic, geographic, political, and social influences upon the formation of the combined cultural regions of the world. This course pursues the topics of World Cultures in greater depth and more rigorous standards of evaluation.

4175 HONORS WORLD CULTURES

NCAA

Grade 10

Weighting: 15%

FULL YEAR

CREDIT: 1.0

This course has the same scope as the World Cultures course. However, the students are expected to connect larger units of material with their conceptual basis. Methods of evaluation will be more challenging as well as a greater range of projects involving research, role playing, oral presentations, writing assignments, and group discussions.

4225 AMERICAN CULTURES

Grade 11

FULL YEAR

CREDIT: 1.0

This course is a chronological survey of the major political, social, and economic events that have impacted the development of the United States from 1898 to the present day. The course places emphasis on relating past events to current affairs that are affecting daily life in our society.

4250 AMERICAN CULTURES (PS)

NCAA

Grade 11

Weighting: 10%

FULL YEAR

CREDIT: 1.0

This course is a chronological survey of the major political, social, and economic events that have impacted the development of the United States from 1898 to the present day. The course places emphasis on relating past events to current issues that are affecting life in our society. Where appropriate, this course pursues, in detail, topics that contribute to the state of the culture in which we currently exist such as: war (civil and international), immigration, economic disruptions, industrialization and globalization, media influence, political confrontation, and social movements.

4290 AP UNITED STATES HISTORY



Grade 11

FULL YEAR



Weighting: 20%

CREDIT: 1.0

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. **Summer reading assignments are required. Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

4490 AP UNITED STATES GOVERNMENT & POLITICS



Grade: 12

FULL YEAR



Weighting: 20%

CREDIT: 1.0

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. **Students can earn college credits by taking the AP exam (score needed depends on individual colleges) or by dually enrolling through RACC.**

4325 GLOBAL STUDIES

Grade 12

FULL YEAR

CREDIT: 1.0

Global Studies is designed to have students geographically locate and identify areas of the world and critically examine areas of the world especially problem areas of the world. This course is also designed to have students recognize and identify prominent people in current world affairs. Students will also be able to demonstrate a basic understanding of the people, history, and government of various areas of the world. In addition, Global Studies strives to have students be able to make critical evaluations of current world affairs and to instill in each student a desire to keep abreast of current affairs throughout their life.

4350 GLOBAL STUDIES (PS)

NCAA

Grade 12

Weighting: 10%

FULL YEAR

CREDIT: 1.0

Global Studies is designed to have students geographically locate and identify areas of the world and critically examine areas of the world especially problem areas of the world. This course is also designed to have students recognize and identify prominent people in current world affairs. Students will also be able to demonstrate a basic understanding of the people, history, and government of various areas of the world. In addition, Global Studies strives to have students be able to make critical evaluations of current world affairs and to instill in each student a desire to keep abreast of current affairs throughout their life. Students will be required to complete projects throughout the school year, read a daily newspaper and view a daily news program and read current magazine articles that pertain to current issues being studied in class.

4510 WORLD CULTURAL GEOGRAPHY

Grades 9-10

SEMESTER

CREDIT: 0.5

World Cultural Geography will encompass a variety of topics in close relation to Human Geography. Students will explore major topics that are influential to international affairs. These topics include but are not limited to world religions, population, migration, conflict, and culture.

4515 WORLD PHYSICAL GEOGRAPHY

Grades 9-10

SEMESTER

CREDIT: 0.5

World Physical Geography will include important aspects of Political and Regional Geography. Major topics of study in these regions include political, physical, and regional features as well as developing basic geographic concepts of Earth's physical features, including, but are not limited to map skills, relative location, absolute location, global regions, parts of the Earth's interior, climate, human-environmental interactions, natural disasters, boundaries and settlements.

4520 UNITED STATES MILITARY HISTORY

Grades 9-12

SEMESTER

CREDIT: 0.5

This course will examine the significance of military affairs within the context of American political, economic, and social history from the colonial era through the modern struggle with terrorism. The course will discuss all of the major wars of this period, but it will also emphasize such themes as civilian involvement in wartime production, political support and technology.

4530 HOLOCAUST STUDIES

Grades 10-12

Weighting: 10%

SEMESTER

CREDIT: 0.5

This course will provide students with an in depth look at the Holocaust. It will include an examination of the course of events prior to and throughout the Holocaust, a look at the groups targeted by Hitler's Nazi regime, the connection between the events of the Holocaust in the larger context of World War II, and the lasting impact of the Holocaust on American society. If time allows, modern day genocides will also be discussed. This course lends itself to any student interested in a further study of one of the most horrific events of the twentieth century, especially those interested in history at the collegiate level.

4535 ART HISTORY

Grades 11-12

Weighting: 10%

SEMESTER

CREDIT: 0.5

This course will be a chronological survey of the major social and political events of Western Civilization from antiquity through the early twentieth century. The impact of these events on artwork will be explored and discussed in detail. The course will begin with artwork from several ancient civilizations and explore how artwork has changed dramatically throughout history. The intersection of political, economic, and social factors with the development of artwork will be a focus of the course. **(Satisfies the fine arts requirement)**

4555 PSYCHOLOGY

NCAA

Grades 11-12

Weighting: 10%

SEMESTER

CREDIT: 0.5

Psychology is taught from a personal adjustment approach as well as a discipline-oriented approach. Emphasis is placed on topics such as human behavior, motivation, emotions, growth and development, mental health, mental illness, memory, and learning. Minor emphasis is placed on topics such as physiology, sleep, and dreams.

4560 SOCIOLOGY

NCAA

Grades 11-12

Weighting: 10%

SEMESTER

CREDIT: 0.5

Sociology is taught in order to help students gain insight into their own social relationships and to further develop their ability to look at the social world around them more objectively. Major emphasis is placed on topics such as: socialization of the individual, culture, minorities, the family, male and female roles, social stratification, group dynamics, culture change, social problems and social institutions.

4565 PENNSYLVANIA HISTORY

Grades 9-12

SEMESTER
CREDIT: 0.5

This course will survey Pennsylvania history, geography, and government. This course will examine the vital role played by Pennsylvania in the development of the nation. Also, students will be able to understand the geographical significance of Pennsylvania as the “Keystone State,” as well as learn about the many natural resources that contributed to Pennsylvania becoming an important agricultural and industrial region.

WELLNESS PROGRAM

A planned program of wellness activities is offered that contributes to the individual's overall development. The program will include SEL activities, along with activities in team sports, lifetime sports/fitness, and individual sports, with major emphasis placed on physical fitness. A sequential program of skills-based health units is offered within the wellness program. Students will develop skills and acquire knowledge that they need now, and in the future, to maintain or enhance their health. These programs contribute to personal and community health, and encompass mental, emotional, social, spiritual, and physical dimensions of wellness.

ADAPTED PHYSICAL FITNESS

The Hamburg Area School District provides a program of adapted physical fitness for students not able to participate in the regular curriculum. Students with a significant chronic or lengthy (4 weeks or more) disability will be processed into the adapted program. The physical fitness teacher will handle those with minor medical problems or with incapacities of short duration on a day-by-day basis. The school nurse will be the person to make the determination as to whether or not a student is provided an adapted physical fitness program. This determination will be made based upon information provided by the student's physician, parent, teacher and an examination of the child's condition. The purpose of adapted physical fitness is to provide a program of activities appropriate to the child's needs and abilities. It is not to offer therapy or remediation for the child's condition – although these may result from the physical activities in which a student is engaged.

9010 WELLNESS 9 (3 classes per cycle)

FULL YEAR
CREDIT: 0.5

A program has been developed to introduce all freshmen to the high school wellness program. Students will be exposed to team building/cooperative games, an introductory fitness unit, various team sports, and culminate with Presidential Youth Fitness Testing, using Fitnessgram. The focus of this course will be on character building, introducing students to lifetime fitness, including aerobic activities and heart rate monitors, as well as learning the basic skills, rules, and tactics of various team sports. The following health concepts will also be incorporated, utilizing a skills-based approach, into Wellness 9: Intro to Wellness & Goal setting, Handling Emotions, Stress Management & Suicide Prevention, Medicine & Illegal Drugs, including the opioid epidemic, and Relationships & Sexuality, including HIV/AIDS Education.

9020 WELLNESS 10 (3 classes per cycle)

9022 BCTC WELLNESS 10

Prerequisite: Wellness 9

FULL YEAR
CREDIT: 0.5

This program will build on the introductory Wellness 9 course to include exposure to the weight room and an introduction to lifetime sports. Students will continue to use heart rate monitors, improve upon their skills and knowledge of the rules and tactics of team sports and utilize them in small games, as well as be introduced to various lifetime sports. This course will also culminate with Presidential Youth Fitness Testing. The following health concepts, using a skills-based approach, will be incorporated in Wellness 10: Self-Esteem, Mental Health, Nutrition, Weight Management, Alcohol, Tobacco, and Vaping.

9040 WELLNESS 11/12 (3 classes per cycle)

9042 BCTC WELLNESS 11/12

Prerequisite: Wellness 10

FULL YEAR
CREDIT: 0.5

Students will successfully participate in lifetime activities and regulation games by utilizing the skills and knowledge they have gained in the Wellness 9 & 10. They will engage in lifetime fitness activities, as well as play various lifetime and team sports, utilize the heart rate monitors and culminate the year with Presidential Youth Fitness Testing. The following health concepts, using a skills-based approach, will be incorporated into Wellness 11/12: Violence and Abusive Relationships, Digital Dating Abuse, STI and Pregnancy Prevention, Digital Citizenship, Fentanyl and Opioid Education, Lifestyle Diseases, and Advocacy. Students will also utilize previously learned skills and health concepts to design personal plans that pertain to their overall wellness, which encompasses mental, emotional, social, spiritual, and physical health.

9055 PERSONAL FITNESS

Grades 11-12

FULL YEAR

Prerequisite: Wellness 9/10

CREDIT: 0.5

Students will engage in various lifetime fitness activities, including fitness walking/running, plyometric training, aerobic training, and circuit training. This course will utilize the track, weight room, gym, and classroom. Students will have some flexibility in implementing fitness plans designed during Wellness 11, as well as refining those plans as needed. Heart rate monitors will be utilized, and the year will culminate with Presidential Youth Fitness Testing. The following health concepts, using a skills-based approach, will be incorporated into Wellness 11/12: Violence and Abusive Relationships, Digital Dating Abuse, STI and Pregnancy Prevention, Digital Citizenship, Fentanyl and Opioid Education, Lifestyle Diseases, and Advocacy. Students will also utilize previously learned skills and health concepts to design personal plans that pertain to their overall wellness, which encompasses mental, emotional, social, spiritual, and physical health.

9060 STRENGTH AND CONDITIONING

Grades 11-12

FULL YEAR

Prerequisite: Wellness 9/10, Teacher Recommendation

CREDIT: 1.0

Strength and Conditioning is a program of static and dynamic exercises used to develop every area of the body and improve the way a person moves, with the intention of enhancing sporting or physical performance. Students will learn both resistance training concepts, as well as aerobic exercise to improve muscle mass, cardiovascular and pulmonary fitness, and joint mobilization and flexibility. Students will routinely track and document their results in various weight training exercises throughout the year to demonstrate growth and improvement. Class sizes will be limited due to the amount of equipment and safety issues. Students who do not meet the expectations of this course in terms of proper attitude and work ethic may be dismissed from the course and enrolled in the Wellness 11/12 class. The following health concepts, using a skills-based approach, will also be incorporated into Strength and Conditioning: Violence and Abusive Relationships, Digital Dating Abuse, STI and Pregnancy Prevention, Digital Citizenship, Fentanyl and Opioid Education, Lifestyle Diseases, Nutrition, and Advocacy.

9066 LEADERSHIP IN ATHLETICS

Grades 11-12

Prerequisite: Teacher Recommendation Only

Education: Exhibits strong leadership skills, Wellness 9/10

FULL YEAR

CREDIT: 0.5

Students will be exposed to various team and lifetime sports, as they would in the General Wellness class. This course will allow the students to explore these activities using more in-depth rules and strategies, at a high level of competition. Students will be engaged in peer teaching, officiating, strategizing and competitive play within the parameters of the rules of the game. This will expose them to the following career pathways: teaching, officiating, and coaching. All students in this course will participate in advanced physical education 3 days per cycle and be assigned as a student aid for a 4th day of the cycle. This is mandatory and will allow you to further enhance your student leadership and organizational skills. The instructor will assign you as it suits your schedule. The following health concepts, using a skills-based approach, will be incorporated into Wellness 11/12: Violence and Abusive Relationships, Digital Dating Abuse, STI and Pregnancy Prevention, Digital Citizenship, Fentanyl and Opioid Education, Lifestyle Diseases, and Advocacy. Students will also utilize previously learned skills and health concepts to design personal plans that pertain to their overall wellness, which encompasses mental, emotional, social, spiritual, and physical health.

WORLD LANGUAGES

Research shows that students who have taken several years of a language learn much more about English in the process. As a result, they tend to achieve high scores on the verbal portion of college entrance tests. Language study can also make graduates more competitive in the job market. The in-depth study of a world language gives students an awareness of cultural differences among nations, resulting in better international understanding. College-bound students should complete at least a two-year sequence of one world language before graduation from high school. Careers in Foreign Service, international trade and government, interpreting, education, the media and travel involve knowledge of world languages.

5010 SPANISH 1

NCAA

Grades 9-12

Recommended: At least a C average in Language Arts

FULL YEAR

CREDIT: 1.0

In level 1, the students begin to develop the four basic language skills of listening comprehension, speaking, reading, and writing. Emphasis will be placed on listening and speaking skills through the use of audiovisual materials and dialogues. Students are introduced to the values and customs of the Hispanic culture.

5020 SPANISH 2



Grades 10-12

Prerequisite: Spanish 1

Weighting: 10%

FULL YEAR

CREDIT: 1.0

In level 2, students build upon the language skills acquired in level 1, with increased emphasis on reading and writing. Students begin to construct original sentences using correct grammatical patterns. Accurate speech is encouraged through more advanced dialogues and audiovisual materials.

5030 SPANISH 3



Grades 10-12

Prerequisite: Spanish 2

Weighting: 20%

FULL YEAR

CREDIT: 1.0

In level 3, students continue to develop proficiency in the four language skills with emphasis on speaking, reading, and writing. Students are introduced to composition, longer reading passages and oral self-expression. Cultural awareness is acquired through dialogues and audiovisual materials. **This course prepares students for the AP exam which may lead to college credit. (score needed depends on individual colleges)**

5040 SPANISH 4



Grades 11-12

Prerequisite: Spanish 3

Weighting: 20%

FULL YEAR

CREDIT: 1.0

In level 4, students refine their language skills through daily discussion in Spanish. Readings include native literature, periodicals, and cultural dialogues. Composition and original oral expression are required. Vocabulary and grammar are expanded and reviewed when necessary. **This course prepares students for the AP exam which may lead to college credit. (score needed depends on individual colleges)**

5110 GERMAN 1



Grades 9-12

Recommended: At least a C average in Language Arts

FULL YEAR

CREDIT: 1.0

In level I, students begin to develop the four basic language skills of listening, speaking, reading, and writing. Emphasis is based on listening with the goal of "Actively listening with the intent to understand." A mixture of some authentic materials and materials developed for German language learners will be used to familiarize students with everyday expressions, and vocabulary dealing with topics such as the weather, family, animals, food, holidays, hobbies, school, clothing, and likes and dislikes. Students will be able to communicate in a simple manner with individuals who speak slowly and are sympathetic to their needs as language learners.

5120 GERMAN 2

NCAA

Grades 10-12

Prerequisite: German 1

Weighting: 10%

FULL YEAR

CREDIT: 1.0

Students continue to develop proficiency in listening, reading, writing, and speaking through the use of a mixture of authentic materials and materials developed for German language learners. Cultural awareness is emphasized. Students will be able to understand sentences and commonly used phrases involving their personal information and needs. Students will be able to make themselves understood in common travel, and work or school situations using simple and direct exchanges.

5130 GERMAN 3

NCAA

Grades 11-12

Prerequisite: German 2

Weighting: 15%

FULL YEAR

CREDIT: 1.0

Students continue to develop proficiency in listening, reading, writing, and speaking through the use of a mixture of authentic materials and materials developed for German language learners. Cultural awareness is emphasized. Students will be able to understand and discuss the main points of topics such as work, school, travel, dreams, goals, current events, and holidays. They will be able to make short statements to explain needs and justify views. Students will strive to speak German whenever possible, negotiating meaning and employing gestures and mimic when necessary. Longer duration of reading texts and engagement in German will be necessary.

5140 GERMAN 4

NCAA

Grade 12

Prerequisite: German 3

Weighting: 15%

FULL YEAR

CREDIT: 1.0

In level 4, students refine their language skills through daily use of reading, writing, listening, and speaking in German. Real and virtual conversations take the form of partner, group and classroom discussions, emails, blogs, and vlogs. Native speakers are included in activities using computer technology, and during in-person visits sponsored by the German American Partnership Program and the *Goethe Institut*. Students present needs, perspectives, research, and comparisons both orally and in writing. Readings include graphs, illustrations, short stories, youth and young adult literature, and periodicals. Audio files contain situational scenarios such as those found in doctor visits, use of public transportation or business transactions. Video ranges from short YouTube clips, to German, Austrian, and Swiss television programs, to full-length movies in German. Grammar is reviewed as needed.

GLOSSARY

Some of the words and terms used in this booklet may not be familiar to you. The following brief explanations may be helpful.

CREDITS...

Each course is assigned a certain amount of credit which is earned by the student when the course is completed with a passing grade. The School Counseling Office keeps a record of the number of credits accumulated by students each year. Students must earn a minimum of twenty-four credits to graduate. A full-year course which meets every day provides one credit, whereas a semester course earns a half credit. Courses meeting less than full-time are awarded 0.2 credits for each class meeting in a six-day cycle. Credit amounts are shown in the curriculum offering section. A student must schedule at least 6.5 credits each year.

REQUIRED COURSE...

A required course is a course which all students must take. Some required courses are designated by name (Global Studies, for example). Other required courses specify an academic area but allow students to select a course within the department (Algebra, for example).

ELECTIVE COURSE...

An elective course may satisfy a particular academic requirement or it may be needed for the total number of credits necessary for graduation. Elective courses also allow students to prepare for college or a business career and fulfill individual needs and interests.

SEMESTER...

A semester is 90 school days. First semester begins on the first day of school and ends in January. Second semester begins in January and ends on the last day of school. A quarter is 45 school days.

PREREQUISITE...

A prerequisite is a requirement which the student must satisfy before taking a particular course. For example, a student must first pass Algebra before taking Chemistry (PS).

SEQUENTIAL COURSE...

A sequential course is one of a series of related courses. Spanish 1, for example, is the first course of a sequence of Spanish courses including Spanish 1, 2, 3, and 4. It is necessary to master the skills of each level before proceeding to the next. Sequential courses are found in many academic areas.

CYCLE SYSTEM...

Hamburg Area High School operates on a six-day cycle. The days are numbered, beginning with the first day of school, as day 1, day 2, day 3, day 4, day 5 and day 6 rather than Monday through Friday. In this way, if a particular day of the week is missed, classes scheduled to meet on that day would be held on the next day of school.