



BALDWIN
HIGH SCHOOL

2017-2018
COURSE SELECTION GUIDE

BALDWIN HIGH SCHOOL STAFF

ADMINISTRATORS

Walter Graves, Ed.D.
Principal
Rachel Sprouse,
Assistant Principal
John Saras
Assistant Principal
Vince Sortino
Athletic Director

SCHOOL COUNSELORS

Caroline Babik
Kyle DeGregorio
Gerard Hall*
Sima Misquitta

PROBATION OFFICER

Mary Beth Collins

SCHOOL RESOURCE OFFICER

Officer David Artman

SCHOOL PSYCHOLOGIST

Dan Pasquarelli

SOCIAL WORKER

Annette Giovanazzi, Ed.D.

LIBRARIAN

Brigetta Del Re

CAFETERIA MANAGER

Judy Bourne

SECRETARIAL STAFF

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Attendance
Beth Edwards
Counseling Office
Mary Beth Koenig
Principals' Office
Diane McMahan
Counseling Office
and Registrar
Nancy Petrichko
Athletic
Linda Thompson
Principals' Office

BUSINESS/COMPUTER

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Michelle Kilburn
Daniel Thayer

ENGLISH

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Amy Barno
Susan Fagnilli
Keith Harrison
Daniel Harrold, Ph.D.
Michelle Jenkins
Lisa Klein, Ed.D.*
Rachel Murrman
Katherine Musselman /ESL
Holly Niemi, Ph.D. /ESL
Krystal Schulte
Steven Sinning
Ann Watson

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Beth Fochtman
Cheri Foote
Virginia Pfatteicher
Ronald Quinn
Jane Riccardi
Christopher Ross
Brad Schulte
Gregory Steele
Kristen Tranter
Tina Walsh
James Wodarek*

MATHEMATICS

Bryan Black
Richard Fochtman
Maria Hausman
Dale Kreuer
Susan McCourt
Richard Ralston
Michael Silianoff
Thomas Simcho
Daniel Thayer
Donna Vecchio
Mary Zegeer*

PHYS. ED./HEALTH

Erin Chelosky
Chris Crighton*
Timothy Laughlin
James Wehner

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Tina Gaser
Elizabeth Giles
Sarah Lyle
Sarah Nairn
Stephanie Neal
Rachel Neil
Kent Radomsky*
Stephanie Tarpey
Jonathan Tietz
Matthew Urban

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Kate Deemer*
Richard Deemer
David Dunaway
Adam Foote
Karl Geisler
Doug Graff
Natalie Grattan
Jared Lambie
Christopher Reilsono
Brad Schulte
Katie Temme
Jill Weber

SPECIAL EDUCATION

Cassandra Bartus*
Jared Hoffman
Eric Jankoski
Allison Levy-Drake
Maryanne Schrader
Joshua Stahl
Leah Younkins

WORLD LANGUAGE

Elizabeth Allemang
Heather Clementoni*
Katie DeFazio
Will Dodds
Scott Hindman
Kathryn Jarocki
Rebecca Michalski
Amanda Setree

**Denotes Department Chair*

Graduation Information

- Students are responsible for meeting the essential requirements for graduation based upon subjects completed in Grades 9-12.
- Students and parents will be assisted by school counselors and teachers in order to develop an appropriate and challenging program of study.

English	4.0
Social Studies	3.5
Science	3.0
Mathematics	3.0
Physical Education**	1.0
Health	0.5
Arts and/or Humanities*	3.0
Technology/Media Applications	0.5
STEM courses: (Science, Technology, and Math)	1.0
Electives	4.5
Total Credits	24.0
Other Requirements	Graduation Project Keystone Exam Proficiency (Algebra I, Biology, and Literature)

*Arts and/or Humanities: Arts include art courses, crafts, family and consumer science courses, industrial technology courses, band, chorus, and orchestra. Humanities include World Language, English electives and Social Studies courses.

Credits earned at Steel Center qualify as a combination of Arts and/or Humanities, STEM, and elective courses.

**Beginning with the Class of 2017, a semester of PE will be worth a 0.50 credit based on time enrolled.

Beginning with the Class of 2017 and beyond, the Graduation Project will be integrated into the Society and Careers, AP Government, and AP Economics curricula.

Graduation for the Class of 2019 and beyond is dependent upon distribution of required credits, total number of credits, completion of the Graduation Project, and Keystone Exam Proficiency in Algebra I, Biology, and Literature.

Each eligible student who satisfactorily completes a special education program developed by an IEP team (inclusive of the Keystone Exams and Graduation Project) shall be granted and issued a regular high school diploma by the district upon completion of that program.

Students must take 1.0 credit elective(s) in STEM: Math, Science, and/or Technology.

Grading Scale

Baldwin High School		Steel Center for Career and Technical Education	
A	90% - 100%	A	93% - 100%
B	80% - 89%	B	85% - 92%
C	70% - 79%	C	77% - 84%
D	60% - 69%	D	70% - 76%
F	0% - 59%	F	0% - 70%
I	This will become an F if not made up within two weeks.		

Grade Point Average

Class rank is based upon the compilation of all course grades earned from Grades 9 – 12. For transfer students, the evaluation received at the former school, as well as grades earned at Baldwin High School, are given identical values. GPA is calculated by the four quarter grades for each course, not the final averaged grade.

Grade	Non-Weighted	Honors Weighted	AP & CHS Weighted
A	4	4.5	5
B	3	3.5	4
C	2	2.5	3
D	1	1.0	1
F	0	0.0	0

Baldwin High School Counseling Website: www.CounselingBHS.weebly.com

Baldwin High School’s Counseling Department website provides information on available resources and services delivered by our School Counselors. This website is a valuable resource which allows the BHS Counseling Department to continuously communicate with Baldwin students, families, and the community. Some features of the website include:

- ❖ Counselor’s contact information
- ❖ Important documents
- ❖ Up-to-date information on standardized testing (PSAT, SAT, ACT, AP, Keystones)
- ❖ **Counselors’ Blog:** Features information on events happening at Baldwin High School and resources available at the Counseling Office, college and career fairs, scholarship information, and open house events at colleges and universities.
- ❖ **Activities, Jobs and Volunteering:** Lists events going on in the community, job announcements, internships, and activities.
- ❖ **Careers Page:** Connects students to career opportunities and community resources, and also provides information on Career Cruising. Events & Scholarships blog – lists events going on in the community, open house events at colleges and universities, college and career fairs, and scholarship information.
- ❖ NCAA links for student-athletes
- ❖ Google Groups



Follow us on twitter @Counseling_BHS

Course Recommendations and Selections

Decisions regarding course selections should be based upon academic abilities and post-secondary plans. A variety of resources are available to assist students in career and post-secondary planning. Below are some of the websites that students can access to explore post-secondary options and plan high school coursework. Students should see their counselor for individualized assistance and utilize the Career Cruising Program.

Baldwin-Whitehall School District www.counselingBHS.weebly.com	NCAA www.ncaa.org	Career Cruising www.careercruising.com
Pennsylvania Higher Education Assistance Agency (PHEAA) www.educationplanner.org	College Board www.collegeboard.org	ACT www.actstudent.org

Class Standing

To advance each year, students must earn a minimum number of credits. To be considered a sophomore (Grade 10), a total of 4.0 credits must be earned. To be considered a junior (Grade 11), a student needs a total of 11.0 credits. To be considered a senior (Grade 12), 17.50 credits must be earned.

Credit Deficiencies

A credit deficiency occurs when a course is failed, which may be resolved by repeating the course the following year or by attending an approved summer school or online credit recovery program. Students who have credit deficiencies will be notified of the deficiencies at the end of the year. It is the responsibility of the student to reschedule credit deficiencies.

Senior students who fail a required course or who lack sufficient credits for graduation may attend an accredited summer school program, take the GED test, or return to Baldwin High School as a full time student the following semester. These students will meet with their school counselor to discuss their options. The GED (or General Educational Development) is a Commonwealth Secondary School Diploma certifying that the holder has achieved an acceptable educational level.

Students who wish to eliminate deficiencies by taking coursework at another school must have approval in advance from the principal.

Keystone Exams

Beginning with the Class of 2019, a student must score proficient or above on the Keystone Exams: Algebra I, English Literature (Grade 10), and Biology in order to graduate. The Keystone Exams are end-of-course assessments and will be considered a stand-alone graduation requirement; therefore, they will not be calculated into the final grade.

Should a student not demonstrate proficiency on a Keystone Exam, the student will be required to participate in a supplemental instructional program mandated by the Pennsylvania Department of Education. A student will retake the Keystone exam up through and including the student's junior year of high school.

Schedule Changes

Beginning in February, students will be given the opportunity to carefully consider course selections for the 2017-2018 school year. Teachers are a critical part of this process through recommendations and advisement on appropriately challenging course placement for each student. Additionally, our school counselors will meet with students to discuss and review course selections related to individual career interests and exploration. The Master Schedule will then be created specifically to address students' requests and needs. Each student's schedule will reflect his or her particular course requests (or alternates as necessary) for next year. Though every effort will be made to ensure accuracy in responding to each student's wants and needs, we recognize that sometimes errors occur. To that end, please refer to the *schedule change procedures* that follow.

Students who have scheduling errors should meet with their counselors prior to June 30th only. No schedule changes will occur after June 30th except as it relates to:

- Course failures that have not been reflected on the schedule
- Summer School course completion (credit recovery or enrichment)
- Enrollment in Keystone semester courses as a result of state assessment scores below Proficient
- New student enrollment
- Other administrative considerations regarding the Master Schedule (e.g. balancing class sizes, extenuating circumstances, etc.)

Requests for schedule changes due to errors may ONLY be made by scheduling an appointment with the counselor to discuss options.

Class Size Requirement/Alternating Years of Course Offerings

Some courses may be offered on an every-other-year basis to ensure the minimum class size requirements are met and to provide students with the opportunity to enroll in the course during his/her four years in high school.

Honors (H) Courses

Honors (H) courses are rigorous courses, which demand a high level of analytical reading ability and often lead to Advanced Placement (AP) or College in the High School (CHS) studies. Students are required to spend a significant amount of time outside of class on course work and will have required summer assignments.

College in High School (CHS) Courses

The College in High School (CHS) program offers qualified high school students the opportunity to earn college credits during their regular school day thus, creating a school/college partnership. The concurrent enrollment program is one of the largest partnership programs at most colleges or universities. Typically, students do not have to leave their school to travel to the university. Students should be academically ready for the challenge of a college-level course and should be recommended by their teacher based upon his or her ability level. Exams are written and monitored by the respective departments at the college or university. It is the responsibility of the student to check with the college/university in which they will be enrolling to determine if College in High School credit is accepted. **Students are responsible, in full, for all tuition and/or other costs associated with enrollment in the courses.**

Advanced (AP) Classes & Testing Costs

Advanced Placement (AP) classes are first-year college level courses that follow the College Board's AP syllabus and prepare students for the AP Examinations given in May each year. AP courses are instructed at an intense pace and are considered the most rigorous courses offered at BHS. Students are expected to use a significant amount of time outside of class to complete course work. All AP courses have summer

assignments. At the conclusion of the course, students may take a test prepared by the College Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year at college. ***Students are responsible, in full, for all costs associated with taking the AP Examinations. Fee waivers are available for eligible students.***

Dual Enrollment

Pennsylvania’s Dual Enrollment Program allows school districts and career and technical centers (vocational schools) to partner with eligible post-secondary partners (community colleges and four-year colleges/universities) to offer high school juniors and seniors the chance to earn college credit while still attending high school. This program helps students make a smooth transition from high school to post-secondary education.

Courses taken through dual enrollment are used for enrichment, acceleration, or for college credit. These courses may not be used to satisfy high school graduation requirements. A course description for each course must accompany the registration form and must be submitted to the high school principal for approval ***prior to scheduling the course.***

Baldwin High School Guidance Department

Counselor Name	Student Alignment	412-885-7500 + extension number	E-mail
Caroline Babik	A, D-H	x8071	<u>cbabik@bwschools.net</u>
Kyle DeGregorio	C, S-Z	x8077	<u>kdegregorio@bwschools.net</u>
Sima Misquitta	I - M	x8072	<u>smisquitta@bwschools.net</u>
Gerry Hall	B, N - R	x8075	<u>ghall@bwschools.net</u>

Guidance Secretaries

Beth Edwards	A - K	x8061	<u>bedwards@bwschools.net</u>
Diane McMahan	L - Z	x8062	<u>dmcMahon@bwschools.net</u>

CAREER CRUISING

Do you ever wonder... “How do I choose my classes?” **Career Cruising is here to help!**

Classes: Finding out about careers helps you more efficiently pick your classes in high school.

Assessments: Fun questions about you which help create a career list.

My Plan: Your ideas, answers, interests all saved in one spot!

College & Financial Aid: Find schools based on the careers you are interested in and where you want to go.

Career Search: What’s your favorite subject? Did you know you can search for careers based just on your favorite class? Enter biology, art, history, etc. and you’ll see a full list of possible careers.

- | | | |
|------------------------------------|--------------------------|--------------------------|
| • Assessments | • Career Profiles | • Resume Building |
| • College and Financial Aid | • Employment Guide | • My Plan |
| • Parent Portal | • Multimedia Interviews | |
| • | • | |

<p>Parents</p> <p>To register for your Parent Portal account, contact Mrs. Babik at cbabik@bwschools.net to receive your activation code. Then to go www.careercruising.com/Parent</p>	<p>Students</p> <p>Login: bw-(insert your Skyward login) Example: bw-smithq Password: your Skyward password</p>
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Welcome to the Career Cruising Parent/Guardian Portal

Parents, guardians, or other authorized individuals can explore Career Cruising and see the career development and education planning work that their child has accomplished.

If you have more than one child using Career Cruising, you can link multiple student accounts to your login.

I am a new user: [Register Now](#) ?

Enter your login information

Email:

Password:

→ Login

[Forgot my password](#)



[Parent/Guardian Portal Overview Video](#)

English

<http://bwcourseselectionguide.weebly.com/>

Grade 9	English 9	Honors English 9
Grade 10	English 10	Honors English 10
Grade 11	English 11	AP English Language & Composition
Grade 12	English 12	AP English Literature & Composition

ADDITIONAL ENGLISH ELECTIVES

Semester

- **Creative Writing**
- **Public Speaking**
- **Introduction to Journalism**
- **Newspaper**
- **Theatre**

Yearlong

- **Newspaper, semesters 1 & 2**

At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes.

ENGLISH 9

Course Number: 102
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 9

Description: In this course, students will analyze and apply literary elements in short stories, epics, novels, poetry, and nonfiction selections through reading, writing, oral presentation, and basic research. The development of composition skills is integrated with the study of literature and focuses on the various types of paragraphs. Students follow the steps of the writing process as they write both single and multi-paragraph essays. Students will be expected to work on more than one project at a time as well as read some literary selections independently.

HONORS ENGLISH 9

Course Number: 103
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 9

SUMMER WORK IS REQUIRED

Description: Students who have a strong command of the basics in literature, composition, and required skills and who work independently at an **accelerated pace** should choose this challenging course. Students should be highly skilled in reading, writing, and oral presentation and have a strong interest and desire to perform well. Students read and discuss classical and contemporary short stories, epics, novels, poetry, and nonfiction. Discussion of literature focuses on the purpose and technique of each author and the universal applications of the writer's ideas. In addition, students read several literary selections independently. Development of composition skills is integrated with the study of literature and focuses on extensive practice of the various types of writings. Students write both single and multi-paragraph essays. In addition to literature and composition development, skills in research, speaking, and listening are also developed and reinforced. Students will be expected to work on more than one assignment at a time.

ENGLISH 10

Course Number: 107
Prerequisite: English 9

Credit/Term: 1.00/year
Grade Level: 10

Description: This course is designed to provide a focused study of reading, writing, speaking, and listening. The English 10 course incorporates a study of fiction through analysis of short stories, novels, dramas, and poems. The study of nonfiction utilizes a variety of reading strategies and examines documents, essays, and memoirs. Units of study will involve a close investigation of elements of literature, and elements of composition through the development of multi-paragraph essays and application of the steps of the writing process. Essential research skills and techniques will culminate in the delivery of an oral presentation.

HONORS ENGLISH 10

Course Number: 108
Prerequisite: Honors English 9 or Teacher Recommendation
SUMMER WORK IS REQUIRED

Credit/Term: 1.00/year
Grade Level: 10

Description: College-bound students who have mastered the basics in literature, composition, and required skills and who work independently at an accelerated pace should select this Pre-AP course. Interpretation and criticism of short stories, novels, dramas, poetry, and nonfiction are emphasized in both discussions and activities. In addition, students read numerous literary selections independently. Students compose single and multi-paragraph essays integrated with the study of literature while using the writing process. A formal research project is also required as well as formal speech presentations. Students will be expected to work on more than one assignment at a time. This course is designed to prepare students for the 11th and 12th Grade AP English Courses.

ENGLISH 11	Credit/Term: 1.00/year
Course Number: 111	Grade Level: 11
Prerequisite: English 10	

Description: This American literature-based course provides students with experience in critical analysis of selections from stories, novels, dramas, poetry, and nonfiction. This course is designed to provide a focused study of reading, writing, speaking, and listening. Units of study involve a close investigation of literary elements, English usage, and thematic connections. Students apply the steps of the writing process to develop multi-paragraph essays, narratives, and creative writing assignments integrated with the study of literature.

AP ENGLISH LANGUAGE AND COMPOSITION	Credit/Term: 1.00/year
Course Number: 114	Grade Level: 11
Prerequisite: Honors English 10 or Teacher Recommendation	
SUMMER WORK IS REQUIRED	

Description: The AP English Language and Composition course allows students to become skilled readers of complex prose and to become sophisticated writers who can compose for a variety of purposes. The design of this course applies to the student who appreciates an intellectual challenge, demonstrates independent initiative, and shows a mastery in multi-tasking. A wide breadth of literature from numerous historical periods, disciplines, and rhetorical contexts is studied, not only for the purpose of exploring content, but also for the purpose of exploring a writer's purpose, audience expectations, and use of stylistic and rhetorical devices. Based on these examples, students will write in expository, analytical, and argumentative styles. Utilizing the writing process, students will be required to complete several drafts and proceed through stages of rigorous revision aided by peers and the instructor. In preparation for this course, students will be required to complete summer reading assignments following their sophomore year.

ENGLISH 12	Credit/Term: 1.00/year
Course Number: 119	Grade Level: 12
Prerequisite: English 11	

Description: Based on a survey of British literature, the course emphasizes reading, writing, speaking, and listening skills. A historical approach to the literature is taken beginning with the Anglo-Saxons and ending with contemporary literature. Works are analyzed, criticized, and appreciated for real-life applications to the students' experiences. Integrated with this literary study are instruction, practice, application, and development of multi-paragraph essays. Students also study related vocabulary, prepare and present speeches, explore research topics culminating in a final research project, and respond orally and in writing to the ideas presented, read, and discussed. Due to required independent readings, students learn to apply time-management skills.

AP ENGLISH LITERATURE AND COMPOSITION	Credit/Term: 1.00/year
Course Number: 118	Grade Level: 12
Prerequisite: AP English Language or Honors English 10 or Teacher Recommendation	
SUMMER WORK IS REQUIRED	

Description: Students who demonstrate advanced skills in reading and interpreting sophisticated pieces of literature and who write on an advanced level should select this course. Advanced Placement English Literature and Composition maintains college-level criteria for the written and verbal analysis of literature. Infusing the Pennsylvania Core Standards for Reading, Writing, Speaking and Listening set forth by the Pennsylvania Department of Education with the elevated requirements of the Advanced Placement Literature and Composition program, this course incorporates a variety of methods for teaching literature and composition skills. British and World literature serve as the basis for class discussions, class lectures, writing assignments and the research paper. Students read a multitude of literary selections independently. Students are required to complete numerous composition assignments including in-class, timed essays and formal papers. Students who select this course are required to

complete a summer reading assignment following their junior year. This reading assignment must be completed prior to the start of their senior year.

ENGLISH ELECTIVES

CREATIVE WRITING

Course Number: 126

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This is an elective class for students who like to write their own short stories or poetry. Students will learn how to write more effective dialogue, how to incorporate observation and informal research to make their writing more believable, and how to incorporate technology in new forms of fiction writing. Students draft and revise in class and then present their work to their peers, who provide positive feedback.

PUBLIC SPEAKING

Course Number: 127

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This elective provides opportunities and practice for students who wish to develop oral communication with emphasis on activities that will help them in everyday speaking situations. Impromptu speeches, extemporaneous talks, and formal speaking assignments help to improve poise, self-confidence, and voice projection. Specialized forms of public address assignments require selection of a topic, audience consideration, speech composition, and effective physical delivery.

INTRODUCTION TO JOURNALISM

Course Number: 130

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This is an elective class for students who have experienced success in essay writing in English class and who eventually want to work for the school newspaper, The Purbalite. In this prerequisite course for the Newspaper class, students will learn how to write news, sports and feature stories, as well as editorials and reviews of music and movies. Students will learn the basics of news photography, and how to design news pages on the computer.

NEWSPAPER: ONE SEMESTER OR FULL YEAR

Course Number: 132(F); Grade Level 10-12

or

133(S); Grade Level 9-12

Prerequisites: Introduction to Journalism

Credit/Term: 1.00/year

or

Credit/Term: .5/sem.

Description: After taking the Introduction to Journalism class, students can take either full-year Newspaper (132) or one-semester Newspaper (133). Students in this class publish the print edition of the student newspaper, The Purbalite, including writing and editing stories, taking photos, designing pages on the computer, and selling ads and copies of each issue. Students also write stories for the newspaper's web page, www.purbalite.net, and maintain the paper's social media sites. Because students continually work on new projects, these electives can be taken more than once and receive credit.

THEATRE

Course Number: 137

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This course allows students to participate in various activities that improve performance techniques, starting with basic body movement and battling stage fright. Students will develop their skills in the areas of ensemble collaboration, concentration, memorization, characterization, and imagination. To apply their skills, students will participate in improvisation exercises as well as monologues and group

skits. This course gives both new and experienced actors opportunities to enhance interpretation of character and performance skills. Students will perform in front of a small audience on a regular basis, culminating in reflection and evaluation of personal work and the work of others. Students will acquire the necessary stage presence and technique to perform in front of larger audiences as well as work collaboratively with others in all creative endeavors.

Social Studies

<http://bwcourseselectionguide.weebly.com/>

Grade 9	Civics & Geography	Honors Civics & Geography		
Grade 10	World History	AP World History		
Grade 11	United States History	AP United States History	AP Economics	AP European History
Grade 12	Society and Careers	AP United States Government & Politics	AP Economics	AP European History

ADDITIONAL SOCIAL STUDIES ELECTIVES

Semester

- **Psychology**
- **Psychology of Personality**
- **Introduction to Sociology**
- **Leadership**

At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes.

CIVICS & GEOGRAPHY**Course Number: 201****Prerequisite: None****Credit/Term: 1.00/year****Grade Level: 9**

Description: Civics & Geography is an introductory course that examines the essential skills and knowledge necessary for understanding current affairs and will provide a strong foundation for future social studies courses. Students will examine governmental principles and structures, basic macro and microeconomics, national geography, and Pennsylvania history. Through this survey course, students will gain a base knowledge that will serve them as they continue to examine history and government throughout their high school careers, along with learning state and local history. Students will develop skills such as note taking, organization, study skills, presenting, reading and writing.

HONORS CIVICS & GEOGRAPHY**Course Number: 203****Prerequisite: None****Credit/Term: 1.00/year****Grade Level: 9****SUMMER WORK IS REQUIRED**

Description: Honors Civics & Geography is an introductory course that examines the essential skills and knowledge necessary for understanding current affairs and will provide a strong foundation for future Advanced Placement social studies courses. Students will examine the governmental principals and structures, basic macro and microeconomics, national geography, and Pennsylvania history. Through this survey course, students will gain both a base knowledge and an enriched perspective that will serve them as they continue to examine history and government on an advanced level throughout their high school careers. Students will develop advanced skills such as formulating their own ideas about government and geography, advanced written expression, and self-directed fictional and primary source readings. Students should be highly skilled in reading, writing, and speaking, and should be very motivated to engage in higher-level thinking. This course serves as preparation for future Advanced Placement social studies courses.

WORLD HISTORY**Course Number: 205****Prerequisite: Civics & Geography****Credit/Term: 1.00/year****Grade Level: 10**

Description: This yearlong course requires students to analyze global interconnectedness, while focusing on the geography, history, and culture of Africa, South Asia, East Asia, the Middle East, and Europe. World History draws cross-cultural comparisons between the regions studied and the United States while examining current challenges facing the international community. Particular concentration in this course involves analyzing the role of the United States in global affairs. Students will exhibit organizational skills and the ability to work independently, as well as part of a team. Course assessments include research projects, presentations, simulations, and written essays using primary source readings.

AP WORLD HISTORY**Course Number: 206****Prerequisite: Civics & Geography****Credit/Term: 1.00/year****Grade Level: 10****SUMMER WORK IS REQUIRED**

Description: The College Board describes the purpose of AP World History as developing a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. Focused primarily on the past 1,500 years of the global experience, the course explores major belief systems; cultural, institutional, and technological advances; functions and structures of states, along with other major themes in world history. Projects in the course include numerous types of writing, simulations, debates, group and individual presentations, and independent primary source interpretations. Only students with accelerated reading comprehension, analysis, and writing abilities and who are motivated and self-directed should take this course. This course has been proven to increase readiness for college.

UNITED STATES HISTORY**Course Number: 210**
Prerequisite: World History**Credit/Term: 1.00/year**
Grade Level: 11

Description: By exploring the years from Reconstruction to the present day, students in United States History will understand the major wars, economic developments, social movements, and important figures of the last 150 years. Students will focus on analyzing the effects of historical events on contemporary American society. Continued development of organizational skills, cooperative and independent learning, and reading comprehension will all be emphasized in this course through research projects, presentations, simulations, and informational and persuasive writing assignments.

AP UNITED STATES HISTORY**Course Number: 211**
Prerequisite: World History
SUMMER WORK IS REQUIRED**Credit/Term: 1.00/year**
Grade Level: 11

Description: Advanced Placement United States History encompasses the study of American History from 1492 to the present day and focuses on the political, economic, social, and intellectual developments through primary and secondary source readings. Students read historical material analytically and critically to understand the great issues in America's past. All students will be required to write several multi-paragraph essays as part of their preparation for the written portion of the Advanced Placement Exam. All students with a passionate interest in American History are welcome.

SOCIETY AND CAREERS**Course Number: 212**
Prerequisite: None**Credit/Term: .50/sem**
Grade Level: 12

Description: This course is designed to aid students on career selection, demonstrate an understanding of individual choices that directly influence occupational goals, and future earnings potential. Students will match personal skills, abilities and interests to a career, research various career options, and examine future training options for their career. Soft skills for obtaining and maintaining a career will include conflict resolution, presentation skills, and team building. Other skills highlighted include resume building, interviewing strategies, and creating a realistic budget based on their career and training selections. This course will provide a foundational understanding for making informed personal decisions leading to adulthood. Throughout the course of the year, the Resume, Cover Letter, Career Research Reports, Career Interest Survey, and Budget Project components of the Senior Graduation Project will be addressed.

AP UNITED STATES GOVERNMENT & POLITICS**Course Number: 219**
Prerequisite: United States History
SUMMER WORK IS REQUIRED**Credit/Term: 1.00/year**
Grade Level: 12

Description: AP Government encompasses the intensive study of the majority of political systems in existence today. The course will require primary source readings, regular debates on important governmental issues, and an application of course knowledge for the purpose of analyzing significant political activities in the modern world. Any student who is passionate about politics and government is welcome to attend this class. Throughout the course of the year, the Resume, Cover Letter, Career Research Reports, Career Interest Survey, and Budget Project components of the Senior Graduation Project will be addressed.

AP ECONOMICS**Course Number: 221****Prerequisite: None****Credit/Term: 1.00/year****Grade Level: 11-12****SUMMER WORK IS REQUIRED**

Description: This course is recommended for students who are considering a career in business, law, politics, marketing finance or economics. Through computer-based tutorials, classroom discussion, and internet and library-based research students connect the day-to-day economic events that shape our local and global environment with economic theory. Microeconomics assists in understanding the nature and function of types of firms and the role the government plays in promoting greater efficiency and equity. Macroeconomics looks at the economic system as a whole, investigating such concepts as economic growth, monetary policy, and national income and price determination.

Throughout the course of the year, the Resume, Cover Letter, Career Research Reports, Career Interest Survey, and Budget Project components of the Senior Graduation Project will be addressed *with seniors only*.

AP EUROPEAN HISTORY**Course Number: 233****SUMMER WORK IS REQUIRED PRIOR TO THIS COURSE****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: Advanced Placement (AP) European History is a college-level introductory course for students who wish to study European history from 1450 to modern day. Students who have demonstrated skill in previous Advanced Placement courses, mastered analysis of historical text, and shown self-direction and motivation to perform at an accelerated pace may select this course. Multiple readings of historical texts and novels, historical essay writing and compositions, and formal classroom presentations are examples of daily activities. Topics of study include cultural development through the arts, family life, workplace, the rise and decline of great powers, and the balance between equality and liberty.

Throughout the course of the year, the Resume, Cover Letter, Career Research Reports, Career Interest Survey, and Budget Project components of the Senior Graduation Project will be addressed *with seniors only*.

SOCIAL STUDIES ELECTIVES**PSYCHOLOGY****Course Number: 216****Prerequisite: None****Credit/Term: .50/sem****Grade Level: 10-12**

Description: This course is designed as an introduction to the study of human behavior. Students will explore topics that include human growth and development, psychological methods, information processing, memory, and consciousness. Students are expected to be skilled in note taking, reading comprehension, presenting, and writing.

PSYCHOLOGY OF PERSONALITY**Course Number: 217****Prerequisite: None****Credit/Term: .50/sem****Grade Level: 10-12**

Description: Psychology of Personality provides students with the tools to explore the development of self. Various psychologists' theories of personality development are discussed. Mental and emotional health issues, abnormal personalities, and human interaction are among the areas of study. Students are expected to be skilled in note taking, reading comprehension, presenting, and writing.

INTRODUCTION TO SOCIOLOGY**Course Number: 218****Prerequisite: None****Credit/Term: .50/sem****Grade Level: 10-12**

Description: Sociology deals with the study of interpersonal relationships within society. Through examination of group interactions, students develop an awareness of conflict within contemporary society and are given an opportunity to voice possible solutions to these conflicts. Topics and material that may be considered controversial in nature include the study of peer, family, educational, criminal, religious, and racial groups.

LEADERSHIP**Course Number: 240****Prerequisite: None****Credit/Term: .50/sem****Grade Level: 10-12**

Description: Leadership is designed for students to explore what it means to be a leader in their personal lives, schools, and communities while looking to historical examples of leaders as models of behavior and action. Students will examine various historical leaders and analyze their qualities while working to model them in their own experiences. They will also be expected to read, write, and speak effectively as leaders. As a cumulative activity, students will complete a leadership project incorporating historical leadership examples and their own strengths to a real world situation.

Mathematics

<http://bwcourseselectionguide.weebly.com/>

Grade 9	Algebra I	Geometry	Honors Geometry	Honors Algebra II
Grade 10	Geometry	Algebra II	Honors Algebra II	Honors Trigonometry & Pre-Calculus
Grade 11	Algebra II	College Algebra & Trigonometry	Honors Trigonometry & Pre-Calculus	Honors Calculus or AP Calculus AB
Grade 12	College Algebra & Trigonometry	Honors Trigonometry & Pre-Calculus	Honors Calculus or AP Calculus AB	AP Calculus AB or AP Calculus BC

ADDITIONAL MATHEMATICS ELECTIVES INCLUDE:

Yearlong

- AP Statistics
- CHS Statistics
- Financial Algebra

At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes.

ALGEBRA 1A
Course Number: 306

Credit/Term: 1.00/year
Grade Level: 9

Algebra 1A is the first half of the Algebra 1A/1B series. This course covers the linear aspects of algebra. The topics included are solving and graphing linear equations and inequalities, reading and interpreting word problems, and understanding functional relationships using graphs, charts, and tables. **Teacher recommendation is REQUIRED to select this course.**

ALGEBRA 1B
Course Number: 307

Credit/Term: 1.00/year
Grade Level: 10

Algebra 1B is the second half of the Algebra 1A/1B series. The topics that are covered in this course are solving and graphing linear equations and inequalities, reading and interpreting word problems, solving quadratic equations by graphing, by factoring, by completing the square, and by the quadratic equation, understanding functional relationships using graphs and charts, and working with rational and irrational expressions to solve simple rational and radical equations. Upon successfully completing Algebra 1B, the students will receive credit for Algebra 1 and be prepared to take the Keystone Algebra I Exam. **Teacher recommendation is REQUIRED to select this course.**

ALGEBRA I
Course Number: 305

Credit/Term: 1.00/year
Grade Level: 9

Description: This course develops skills and concepts necessary for students to succeed in upper level math and science courses and is aligned to Algebra I Keystone Anchors. This course begins with a review of order of operations, evaluating expressions, solving one-step and multi-step equations, and functions. Students will progress to new topics that will include coordinate geometry, systems of linear equations and inequalities, exponents, polynomials, data analysis and probability. Students will explore application problems that focus on developing problem solving skills.

GEOMETRY
Course Number: 312
Prerequisite: Algebra I

Credit/Term: 1.00/year
Grade Level: 9-10

Description: Geometry is designed to interest students in the study and application of geometry to art, nature, industry, and engineering. The usefulness of geometry as an aid to basic reasoning is promoted. Inductive reasoning is used throughout the course to enable the student to arrive at conjectures through investigation.

HONORS GEOMETRY
Course Number: 313
Prerequisite: Algebra I
SUMMER WORK IS REQUIRED

Credit/Term: 1.00/year
Grade Level: 9-10

Description: Honors Geometry is recommended for students who have successfully completed Algebra I with a 90% average or better. Honors Geometry is a fast paced, high level course with a deeper comprehension of geometry concepts. The study of geometry and algebra is merged, and the course provides a valuable experience with real numbers. Inductive reasoning is used throughout the course to enable the students to arrive at conjectures through investigation.

ALGEBRA II	Credit/Term: 1.00/year
Course Number: 322	Grade Level: 10-11
Prerequisite: Algebra I	

Description: The concepts introduced in Algebra II develop deeper comprehension of algebraic structure. New symbolism, concepts, and topics are introduced to expand student understanding and knowledge and to provide problem-solving techniques for solutions of more complex equations.

HONORS ALGEBRA II	Credit/Term: 1.00/year
Course Number: 323	Grade Level: 9-11
Prerequisite: Algebra I	
SUMMER WORK IS REQUIRED	

Description: Honors Algebra II is recommended for students who have successfully completed Algebra I with a 90% average or better. Honors Algebra II is a fast paced, high level course where a deeper comprehension of algebraic concepts is explored. Similar to Algebra II, new symbolism, concepts, and topics are introduced to expand student understanding and knowledge and to provide problem-solving techniques for solutions of more complex equations. In addition, enrichment activities challenge students to expand analytical skills. The use of a graphing calculator is required.

FINANCIAL ALGEBRA	Credit/Term: 1.00/year
Course Number: 324	Grade Level: 12
Prerequisite: Algebra I	

Description: In this course, students explore algebraic thinking patterns and functions in a financial context. The course is an application-based learning approach incorporating Algebra I, Algebra II, and Geometry topics. The course also encourages students to be actively involved in applying mathematical ideas to their everyday lives. The course will focus on the stock market, modeling a business, banking, consumer credit, automobile ownership, employment basics, income taxes, independent living, and planning for retirement.

COLLEGE ALGEBRA AND TRIGONOMETRY	Credit/Term: 1.00/year
Course Number: 333	Grade Level: 11-12
Prerequisite: Algebra II	

Description: This course expands upon the concepts learned from Algebra II and emphasizes the analysis of the graph. Logarithmic and exponential functions will also be introduced. Trigonometry topics include trigonometric functions, proof of trigonometric identities, and applications of triangles. The use of the graphing calculator is required.

HONORS TRIGONOMETRY & PRE-CALCULUS	Credit/Term: 1.00/year
Course Number: 334	Grade Level: 10-11
Prerequisite: H Algebra II or Algebra II	
SUMMER WORK IS REQUIRED	

Description: This honors level course consists of a study of trigonometry and pre-calculus mathematics. Trigonometry topics include trigonometric functions and their inverses, proof of trigonometric identities, trigonometric equations, applications to triangles, and graphing trigonometric functions. Pre-Calculus includes a study of important concepts of calculus with an emphasis on graphical analysis. Students will study domain, range, and extreme of functions along with logarithmic/exponential functions, introduction to limits, and derivatives. Additionally, enrichment activities challenge students to expand analytical skills. Successful completion of this course prepares students for Calculus. The use of a graphing calculator is required.

HONORS CALCULUS**Course Number: 340****Prerequisite: H Trigonometry and Pre-Calculus
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: Calculus develops a high degree of mathematics sophistication in the analysis and understanding of abstract concepts and symbols. Topics covered in this course include functions and graphs, limits, derivatives, trigonometric functions, application of the derivative, integral, applications of the integral, and exponential and logarithmic functions.

AP CALCULUS AB**Course Number: 341****Prerequisite: Honors Trigonometry & Pre-Calculus
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: Calculus develops a high degree of mathematics sophistication in the analysis and understanding of abstract concepts and symbols. This course consists of an intensive study of limits, differentiation, and integration of algebraic, trigonometric, exponential, and logarithmic functions will comprise the major part of the course. Enrichment activities place greater emphasis on the properties of elementary functions and fundamental theorems. The use of a graphing calculator is required. This course is designed for those students who plan to attend a college or university and major in mathematics a mathematically related science, or engineering.

AP CALCULUS BC**Course Number: 342****Prerequisite: AP Calculus AB
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: This college-level course is designed for those 12th grade students who have successfully completed AP Calculus AB and have a very strong mathematical background. Topics include differentiation, integration, series, and polar/parametric equations. The use of a graphing calculator is required. This course is designed for students who plan to attend a college or university and major in a mathematically related field such as Science or Engineering.

MATH ELECTIVES**AP STATISTICS****Course Number: 351****Prerequisite: Algebra II
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: AP Statistics is comparable to introductory statistics courses in colleges and universities. The four main topics covered are data production, data analysis, probability and statistical inference. Ideas such as random sampling, distinguishing between populations and samples, graphical displays, central tendency, standard deviation, binomial and geometric probabilities, confidence intervals, linear regressions, and analysis of variance, support the four main ideas. Students will also be preparing, throughout the course, to take the AP exam in May. AP Statistics is strongly recommended for students attending four-year colleges and universities.

CHS STATISTICS**Course Number: 356****Prerequisite: Algebra II
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: This course is equivalent to 0200 Basic Applied Statistics course at the University of Pittsburgh. This course teaches methods and terminologies of descriptive and inferential statistics. Students who complete this course will be able to conduct their own analyses of standard one-sample or

two-sample data sets, follow statistical reasoning, and read statistical reports with understanding. Introductory topics in linear regression, analysis of variance, and contingency table analysis also will be covered. At the completion of the course, students can earn four college math credits from the University of Pittsburgh by registering and paying the requisite tuition and enrollment fees as required by the University.

Science

<http://bwcourseselectionguide.weebly.com/>

Grade 9	Integrated Science	Biology	Honors Biology	
Grade 10	Applied Chemistry	Chemistry	Honors Chemistry	
Grade 11	Applied Physics	Physics	Honors Physics	AP Physics C: Mechanics
Grade 12	Physics	AP Physics C: Mechanics	Honors Anatomy and Physiology	AP Biology
	AP Chemistry	Honors Organic Chemistry	AP Physics 1	Earth and Space Science

ADDITIONAL SCIENCE ELECTIVES

Yearlong

- Honors Anatomy & Physiology
- AP Biology
- Honors Organic Chemistry
- AP Chemistry
- AP Physics C: Mechanics
- Earth & Space Science
- AP Physics 1

At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes.

INTEGRATED SCIENCE

Course Number: 400
Pre-Requisite: None

Credit/Germ: 1.00/year
Grade Level: 9

This course is designed for ninth grade students who need to reinforce and build upon the basic science skills necessary for success in the upper level sciences. Course topics include creating and analyzing graphs and diagrams, reading comprehension in scientific writing, and essential concepts and skills in the three major sciences. Students enrolled in this course would move on to take Biology and the accompanying keystone exam in their tenth grade year. Teacher recommendation is required to select this course.

BIOLOGY

Course Number 402; NO LAB
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 9

Description: This college and career preparatory biology course offers advanced skills and problem-solving techniques. Verbal skills, experimentation, and note taking are used to develop biological concepts of biochemistry, cell structures, genetics, evolution, and ecology. This course leads to a sequence of general science courses that include Chemistry and Physics.

HONORS BIOLOGY

Course Number: 403; 1 DAY LAB
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 9

SUMMER WORK IS REQUIRED

Description: A study of biochemistry, cell structure, genetics, evolution, and ecology are explored in this honors-level science class. Critical reading, critical writing, and verbal communication skills are needed to be successful in this course. Students utilize online resources and laboratory sessions to reinforce classroom lectures and discussions. Honors Biology is designed to be an introductory course for college-bound students intending to major in science or a related field and is a prerequisite to AP Biology.

APPLIED CHEMISTRY

Course Number: 410
Prerequisite: Biology

Credit/Term: 1.00/year
Grade Level: 10-11

Description: This course introduces students to basic chemistry concepts through society-oriented topics. Topics include water quality, air quality, energy, resources, consumer goods, and career exploration. This course will focus more on the concepts of chemistry than the mathematical analysis of those concepts. Students will also learn by experiencing concepts first hand through activities. This course is intended for non-science oriented students who may or may not be planning college careers, and is not an appropriate choice for those going on to most physics courses, organic chemistry, or AP chemistry.

CHEMISTRY

Course Number: 411; NO LAB
Prerequisite: Biology, Algebra I

Credit/Term: 1.00/year
Grade Level: 10

Description: Chemistry provides an in-depth study of substances and their properties. The course is highly descriptive with moderate mathematical applications and is appropriate for students who desire a fundamental knowledge of chemical principles. The concepts are presented through classroom discussions, laboratory investigation, and individual or group projects. This course is designed primarily for students who have successfully completed both Biology and Algebra I and are not planning to pursue the sciences or related fields beyond high school.

HONORS CHEMISTRY

Course Number: 412; 1 DAY LAB
Prerequisite: Biology or Honors Biology, Algebra I
SUMMER WORK IS REQUIRED

Credit/Term: 1.00/year
Grade Level: 10

Description: Honors Chemistry provides an in-depth study of chemistry. Students develop the skills of critical thinking, inquiry, problem solving, and laboratory techniques. It includes the study of atomic structure, physical and chemical properties, quantitative investigation of chemical reactions, thermodynamics, kinetics, and other chemical principles. This course is highly mathematical and is recommended for those students who have aspirations of entering the sciences or related disciplines such as engineering, medicine, nursing, mathematics, and computer science.

APPLIED PHYSICS

Course Number: 420; NO LAB
Prerequisite: Applied Chemistry, Algebra I

Credit/Term: 1.00/year
Grade Level: 11

Description: This course is designed to convey an understanding and appreciation for the concepts and principles of physics by highlighting them within our everyday experiences. The course will utilize real-world examples to explain physical concepts. The physical laws explored will show how they impact all objects. General topics covered in this course will include: motion of objects, fluids and motion, mechanical objects, heat and thermodynamics, waves and electricity. This course is intended for non-science oriented students who may or may not be planning college careers, and is not an appropriate choice for those going on to AP Physics C, Honors Physics, or AP physics 1.

PHYSICS

Course Number: 421; 1 DAY LAB
Prerequisite: Chemistry
Co-requisite: Algebra II

Credit/Term: 1.00/year
Grade Level: 11-12

Description: In this course, students will examine the topics of mechanics, including motion, forces and energy. Students learn physics through conceptual thinking, mathematical problem solving, and laboratory investigations. This course is appropriate for any college-bound student who has successfully completed the Chemistry 411 course and is currently enrolled in Algebra II or higher but is not planning to pursue the more mathematical sciences or related fields beyond high school.

HONORS PHYSICS

Course Number: 422; 2 DAY LAB
Prerequisite: Honors Chemistry & Honors Algebra II
Co-requisite: Honors Trigonometry and Pre-Calculus
SUMMER WORK IS REQUIRED

Credit/Term: 1.00/year
Grade Level: 11

Description: This course is offered for serious, college-bound students preparing themselves to enter scientific fields such as engineering, research, or medicine. It is also recommended for those who intend to study law or other professions where problem solving and critical thinking are necessary. It covers the fundamental topics of mechanics through thorough conceptual understanding, as well as, challenging mathematical problem solving, using algebra, geometry, and trigonometry.

AP PHYSICS C: MECHANICS**Credit/Term: 1.00/year****Course Number: 425; 2 DAY LAB****Grade Level: 11-12****Prerequisites: Honors Chemistry and Honors Trigonometry & Pre-Calculus****Co-Requisite: AP Calculus AB****SUMMER WORK IS REQUIRED**

Description: This course is a calculus based college-level physics course that covers the topic of mechanics to a great depth of understanding and mathematical application. It adheres to the required syllabus by The College Board, which includes kinematics, Newtonian mechanics, work, energy, power and rotational mechanics. Therefore, it is equivalent to the first-semester calculus based college physics course required by any engineering or physical science major. Since there is a significant amount of material that needs to be covered by the AP test date in early May, it should only be taken by our most advanced juniors who are not only serious students, but also well prepared in both math and science.

SCIENCE ELECTIVES**HONORS ANATOMY AND PHYSIOLOGY****Credit/Term: 1.00/year****Course Number: 405; 1 DAY LAB****Grade Level: 10-12****Prerequisite: Biology or Honors Biology****SUMMER WORK IS REQUIRED**

Description: Students enrolled in this course will study human anatomy, physiology, histology, and selected systems of the human body. Students will utilize virtual simulations, the internet, and laboratory sessions to reinforce class lectures and discussions. The dissection of a representative vertebrate will be used to compare and contrast the anatomy of the preserved specimens to those of a human. The terminology utilized will be very helpful to those students selecting careers in the medical professions including nursing, medical technology, and other health-related careers.

AP BIOLOGY**Credit/Term: 1.00/year****Course Number: 406; 2 DAY LAB****Grade Level: 11-12****Prerequisite: Honors Biology and proficiency on Biology Keystone Exams****SUMMER WORK IS REQUIRED**

Description: This course is the equivalent of a first level college biology course taken by biology majors. The AP Biology course closely adheres to the course outline suggested by The College Board. Activities include twelve laboratory exercises and a rigorous reading schedule. An introductory college text is used for the course. It is recommended that the student be self-motivated and goal-oriented.

AP CHEMISTRY**Credit/Term: 1.00/year****Course Number: 415; 2 DAY LAB****Grade Level: 11-12****Prerequisite: Honors Chemistry**

Description: Students in this course should attain a depth of understanding of the fundamentals of substances and their properties and how they undergo change and develop a reasonable competence in dealing with chemical problems. The course should contribute to the students' ability to think clearly and to express their ideas orally and in writing, with clarity and logic. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year (2 Semesters). This course is highly recommended for those students who are planning to pursue any university science major such as chemistry, physics, engineering, aerospace technology, medicine, nursing, or pharmacy. Please visit the AP College Board website to learn more about the course requirements, the AP Chemistry exam, required AP Chemistry laboratories, and level of difficulty.

HONORS ORGANIC CHEMISTRY

Course Number: 416; NO LAB
Prerequisite: Chemistry or Honors Chemistry

Credit/Term: 1.00/year
Grade Level: 11-12

Description: Organic chemistry is a discipline within chemistry, which involves the scientific study of the structure, properties, composition, reactions, and preparation of chemical compounds consisting of carbon. Students who are considering a career in medicine, engineering, science, genetics, and many other science-based disciplines may be required to study organic chemistry at the university level. Plastics, cosmetics, food preservation, fossil fuels, genetic engineering, and thousands of other benefits today are a result of our understanding of carbon-based substances.

AP PHYSICS 1

Course Number: 423; 2 DAY LAB
Prerequisite: Honors Physics or AP Physics C: Mechanics
SUMMER WORK IS REQUIRED

Credit/Term: 1.00/year
Grade Level: 12

Description: This course is offered for serious, college-bound seniors who have completed an in-depth study of mechanics, by taking Honors Physics in their junior year, and would now like to further their understanding of the world around them by studying the topics of electricity & magnetism and waves - including both sound & light. It requires a deep conceptual understanding, as well as thorough mathematical problem solving, using algebra, geometry, and trigonometry. It will also include a review of the topic of mechanics, in preparation for the AP test in early May.

EARTH AND SPACE SCIENCE

Course Number: 433; NO LAB
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 10-12

Description: Earth and Space science is the study of the application of the physical laws that control the earth and the universe. This is an elective course for students who would like to further their understanding of the universe and broaden their science background. This course provides students with an interactive, hands-on, visual tour of the earth and universe. While studying the astronomy unit of the course, students will view distant objects deep within our galaxy with a telescope. Students will study geology through a hands-on approach, ending with a field study of Pennsylvania rocks. Students will also collect and classify fossils. As part of the unit concerning the earth's atmosphere, students will utilize real-time weather data to develop a three-day forecast.

World Languages

<http://bwcourseselectionguide.weebly.com/>

Spanish I	French I	German I	Latin I
Spanish II	French II	German II	Latin II
Spanish III	French III	German III	Latin III
Honors Spanish IV	Honors French IV	Honors German IV	CHS Latin IV
AP Spanish Language & Culture	AP French Language & Culture	AP German Language & Culture	

At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes

Although a world language is not required for graduation, many colleges and universities require their applicants to complete a minimum of two credits in the same world language for admission. Since sequential language study is cumulative in nature, success in the subsequent levels of language study largely depends upon the retention of vocabulary and comprehension of grammar in the previous level.

Students and parents should be aware that those who successfully complete a three or four-year sequence in a language can possibly satisfy arts and humanities requirements in college. The procedures for testing and placement vary among the colleges and universities.

Please note: Some courses may be offered every other year.

SPANISH I		Credit/Term: 1.00/year
Course Number:	500	Grade Level: 9-12
Prerequisite:	70% or better in English/Language Arts	

Description: Spanish I is designed for students to begin a formal study of the Spanish language and culture. Developing foreign language skills and establishing a solid base for further language study are additional goals of this course. The interactive approach in this course encourages oral proficiency, attentive listening, accurate writing, and reading for comprehension through diverse, proficiency-based classroom and computer lab activities. Basic conversational vocabulary and grammar are stressed. Authentic materials and culture are integral parts of the course as well.

SPANISH II		Credit/Term: 1.00/year
Course Number:	501	Grade Level: 9-12
Prerequisite:	Teacher Recommendation	

Description: The basic objective of this course is to increase oral proficiency, develop listening skills, improve writing accuracy, and continue to read for comprehension. These goals are accomplished by diverse, proficiency-based classroom and computer lab activities. Although there is a considerable emphasis on grammar at this level, the focus of this course is practical and situational vocabulary. Development of its functional use is stressed to provide students with the communicative skills needed to survive in Spanish-speaking countries. Authentic materials and culture are integral parts of the course.

SPANISH III		Credit/Term: 1.00/year
Course Number:	502	Grade Level: 10-12
Prerequisite:	Teacher Recommendation	

Description: The basic objective of this course is to increase oral proficiency, listening skills, and writing accuracy as well as to read for comprehension at a more advanced level. Diverse, proficiency-based classroom activities enhance student performance. Practical and situational vocabulary and the development of functional use of the language in more complex scenarios provide the focus of this course. Advanced grammar, reading for comprehension, and writing are stressed. Authentic materials and culture are integral to this course.

HONORS SPANISH IV		Credit/Term: 1.00/year
Course Number:	503	Grade Level: 11-12
Prerequisite:	Teacher Recommendation SUMMER WORK IS REQUIRED	

Description: Spanish IV is a weighted course and includes progressively higher standards in the integral language skills of listening, speaking, reading, and writing. Formal consideration of advanced grammar is presented and vocabulary is expanded. At this level, students are expected to spontaneously and creatively integrate previously learned material into conversation and class activities. More advanced reading selections are incorporated along with an emphasis on higher-level writing skills. Students take part in diverse, proficiency-based classroom and computer lab activities, and projects. Authentic materials, history, and culture are incorporated into the activities.

AP SPANISH LANGUAGE & CULTURE		Credit/Term: 1.00/year
Course Number:	504	Grade Level: 12
Prerequisite:	Teacher Recommendation SUMMER WORK IS REQUIRED	

Description: This course will follow a comprehensive curriculum that meets the needs of students who have successfully completed the 4th level honors course. Students will acquire listening proficiency by listening to passages by native speakers from different parts of the Spanish-speaking world. They will continue to increase their vocabulary and enhance their grammar skills through the reading of literature, history, and current events. Students will also be given the opportunity to refine and increase their oral

and written proficiency through the interpersonal, interpretive, and presentational modes of communication.

FRENCH I		Credit/Term: 1.00/year
Course Number:	505	Grade Level: 9-12
Prerequisite:	70% or better in English/Language Arts	

Description: French I is designed for students to begin a formal study of the French language and culture. Developing foreign language skills and establishing a solid base for further language study are additional goals of this course. The interactive approach in this course encourages oral proficiency, attentive listening, accurate writing, and reading for comprehension through diverse, proficiency-based activities. Basic conversational vocabulary and grammar are stressed. Authentic materials and culture are integral parts of this course as well. Offered this course in in 2016-2017

FRENCH II		Credit/Term: 1.00/year
Course Number:	506	Grade Level: 9-12
Prerequisite:	Teacher Recommendation	

Description: The basic objective of this course is to increase oral proficiency, develop listening skills, improve writing accuracy and continue to read for comprehension. These goals are accomplished by diverse, proficiency-based activities. Although there is a considerable emphasis on vocabulary at this level, a focus of this course is practical and situational grammar. Development of functional use is stressed to provide students with the communicative skills needed to survive in French-speaking countries. French materials and films provide additional enrichment and variety to this course.

FRENCH III		Credit/Term: 1.00/year
Course Number:	507	Grade Level: 10-12
Prerequisite:	Teacher Recommendation	

Description: The basic objective of this course is to increase oral proficiency, listening skills, and writing accuracy as well as to read for comprehension at a more advanced level. Diverse, proficiency-based classroom activities enhance student performance. Practical and situational vocabulary and the development of functional use of the language in more complex scenarios provide the focus of this course. Advanced grammar, reading for comprehension, and writing are stressed. Authentic materials and culture are integral to this course. Cultural activities and projects, French films, and field trip opportunities provide additional enrichment and variety to this course.

HONORS FRENCH IV		Credit/Term: 1/00/yr.
Course Number:	508	Grade Level: 11-12
Prerequisite:	Teacher Recommendation SUMMER WORK IS REQUIRED	

Description: French IV is a weighted course and includes progressively higher standards in the integral language skills of listening, speaking, reading, and writing. A study of advanced grammar is coupled with the reading of literary selections. At this level, students are expected to spontaneously and creatively integrate previously learned material into conversation and class activities. Students take part in diverse, proficiency-based classroom and computer lab activities, and projects. Authentic materials, history, and culture are integral parts of this course as well. Cultural activities, projects, and field trip opportunities provide additional enrichment and variety to this course.

AP FRENCH LANGUAGE & CULTURE**Course Number: 509****Prerequisite: Teacher Recommendation
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 12**

Description: This course is designed to promote flexibility and accuracy in the language and to enable students to explore culture and language in contemporary and historical contexts. The course is conducted in French, and students are encouraged to expand their communication skills with the teacher and their peers. The course will increase students' level of oral and written proficiency in the language through interpersonal, interpretive, and presentational modes of communication. Advanced grammatical concepts will be reviewed.

GERMAN I**Course Number: 510****Prerequisite: 70% or better in English/Language Arts****Credit/Term: 1.00/year****Grade Level: 9-12**

Description: German I is designed for students to begin a formal study of the German language and culture. Developing foreign language skills and establishing a solid base for further language study are additional goals of this course. The interactive approach in this course encourages oral proficiency, attentive listening, accurate writing, and reading for comprehension through diverse, proficiency-based classroom and computer lab activities. Basic conversational vocabulary and grammar are stressed. Authentic materials and culture are integral parts of the course as well.

GERMAN II**Course Number: 511****Prerequisite: Teacher Recommendation****Credit/Term: 1.00/year****Grade Level: 9-12**

Description: The basic objective of this course is to increase oral proficiency, develop listening skills, improve writing accuracy, and continue to read for comprehension. These goals are accomplished by diverse, proficiency-based activities. Although there is a considerable emphasis on grammar at this level, the focus of this course is practical and situational vocabulary. Development of functional use is stressed to provide students with the communicative skills needed to survive in German-speaking countries. Authentic materials and culture are integral parts of the course.

GERMAN III**Course Number: 512****Prerequisite: Teacher Recommendation****Credit/Term: 1.00/year****Grade Level: 10-12**

Description: The basic objective of this course is to increase oral proficiency, listening skills, and writing accuracy, as well as to read for comprehension at a more advanced level. Diverse, proficiency-based classroom activities enhance student performance. Practical and situational vocabulary and the development of functional use of the language in more complex scenarios provide the focus of this course. Advanced grammar is stressed. Authentic materials and culture are integral parts to this course.

HONORS GERMAN IV**Course Number: 513****Prerequisite: Teacher Recommendation
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: German IV is a weighted course and includes progressively higher standards in the fundamental language skills of listening, speaking, reading, and writing. Formal consideration of grammar is presented as the need arises. At this level, students are expected to spontaneously and creatively integrate previously learned material into weekly conversations and group presentations. Students take part in diverse, proficiency-based classroom and computer lab activities, and projects. Authentic materials, history, and culture are incorporated into the activities.

AP GERMAN LANGUAGE & CULTURE**Course Number: 514****Prerequisite: Teacher Recommendation
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 12**

Description: The German V class is an immersion class designed to develop students' strengths in the German language without the need of translation. The culture aspect of the class will afford students the opportunity to study and appreciate German art, music, literature, and theater. The class also examines German history from 1871 to the present day and the German position in world government and finance. Emphasis is also placed on the former GDR, which is a key issue in the emerging new Germany.

LATIN I**Course Number: 515****Prerequisite: No Prerequisite Required****Credit/Term: 1.00/year****Grade Level: 9-12**

Description: This course was developed to provide students with a basic understanding of the language, history, and culture of ancient Rome and Pompeii. While emphasizing a literary understanding of the Latin language, this course will enable students to read edited Latin texts which not only focus upon grammar and syntax but also upon ancient history and culture. Careful vocabulary study within each stage (unit) will facilitate a deeper understanding of both Latin texts and English word origins and derivatives, another focus of this course. Due to the nature of the Latin language, which includes various noun and verb endings, strong emphasis is placed on both English and Latin grammar. Memorization is also a key component of this course.

LATIN II**Course Number: 516****Prerequisite: Teacher Recommendation****Credit/Term: 1.00/year****Grade Level: 10-12**

Description: This course builds upon the foundation established in Latin I and provides a deeper understanding of the way words work together in a sentence. Students will begin to better understand how the Latin and English languages are connected through syntax and grammar. In addition, Latin II students will continue to focus on vocabulary, derivatives, culture, and history, paying close attention to the Roman influence in both Britain and Egypt. Students taking this course will be expected to use their knowledge of Latin grammar to produce and compose sentences in Latin. This course is faster paced than Latin I and students will be fully responsible for all concepts covered in the previous course.

LATIN III**Course Number: 517****Prerequisite: Teacher Recommendation****Credit/Term: 1.00/year****Grade Level: 11-12**

Description: In addition to building on grammar concepts learned in Latin I and II, Latin III provides students with an understanding of grammar ideas that are abstract in the English language. This course will move at a much faster pace than Latin II and students will be expected to work at an independent level more often. Culture and history will continue to influence our studies, as this level of Latin takes us into the development of Roman colonies, the construction of Hadrian's Wall in England, and the importance of various Roman monuments all over the Roman World.

CHS LATIN IV**Course Number: 518****Prerequisite: Teacher Recommendation
SUMMER WORK IS REQUIRED****Credit/Term: 1.00/year****Grade Level: 12**

Description: This course is a culmination of knowledge obtained in Latin I, II, and III and serves as an introduction to Latin poetry. In conjunction with the University of Pittsburgh, students will read selections from Books I, II, & IV of Vergil's *Aeneid*, an epic poem written in the 1st century AD. In addition to reading specified selections in Latin, students will study the meter of the poem and read the

whole poem in English for in-class discussion. Each student's grade will be based upon his or her performance on three one-hour exams, a final exam, quizzes and in-class readings and discussion. At the completion of the course, students may earn college credits by registering and paying the requisite tuition and enrollment fees as required by the university.

Business and Computer Technology

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TECHNOLOGY/MEDIA APPLICATIONS

Course Number: 601

Prerequisite: None; This a required course for all 9th grade students.

Credit/Term: .50/sem

Grade Level: 9

Description: This project-based course introduces students to Google Apps for Education. Students will work through simulated business projects and also incorporate and explore various presentation applications. Focus will be placed on incorporating effective and appropriate elements of design, such as tables, SmartArt graphics, bitmapped images, AutoShapes, themes, and templates. To enhance the quality of their presentations, sound, video, and animations will be developed. Ultimately, the goal of the course is to expand the students' software skills and enhance their schoolwork. In addition, students will sharpen their oral presentation skills by giving informative and persuasive speeches that they will have created with these programs.

INTRODUCTION TO ANDROID APP DEVELOPMENT

Course Number: 602

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This course introduces students to the design and implementation of Android applications for mobile devices. Students will be introduced to Android app programming and will develop a solid foundation, so they can imagine, design, create, and deploy their own apps. This course will cover the major Android topics such as views, activities, intents, broadcast receivers, and content providers. It will also cover location-based services, sensors, and app deployment. Students will develop an app from scratch, learn how to set up Android Studio, work with various activities, and create simple user interfaces to make their apps run smoothly. Students are not required to have a mobile Android device to successfully complete this course.

WEB DESIGN

Course Number: 604

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: Using Adobe Macromedia software, this course provides students with an overview of HTML coding (the language of the internet) and Web Page imaging. Students will learn the tools they will need to create/design, manage and control professional quality web sites. Android app design will also be incorporated. This is where students will be able to let their creative side show with the designing/editing process. Students experience the entire design process from selecting the target market, planning, design, and layout. Students will work on Ultimate Fitness, which is a simulation in which they get to be the chief web designer for a health and fitness club that is in need of a web page.

SPORTS AND ENTERTAINMENT MARKETING

Course Number: 607

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This course appeals to students interested in the dynamic areas of sports, entertainment and/or marketing, an exciting industry in which to work. More than one-third of the jobs in the country deal with some aspect of marketing. In this interdisciplinary course, students will apply their knowledge and skills on the marketing of athletes, venues, sports, musicians, and events. Students will develop critical thinking, decision-making, and communication skills through real work applications. Creative projects are utilized to provide hands-on learning experiences. Speakers, sportsmanship, current events, commercials, videos, teamwork, and simulation are utilized. This course is recommended for all students considering a business, marketing, public relations, or sports and entertainment major in college.

INTRODUCTION TO BUSINESS

Course Number: 608
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: Students will explore the foundation of business operations. Becoming a knowledgeable consumer, a well-prepared employee, and an effective citizen, as well as understanding business ethics and social responsibility are some of the topics that will be covered. Students will understand the business and technology environment and problems that face us – making consumer decisions, money management, and cultural diversity in the workplace. Students will take upon the task of developing and running their own business with the aid of a virtual business software simulation. Students who plan to pursue other business electives, as well as higher education, will find this course extremely beneficial.

INTERNATIONAL BUSINESS

Course Number: 609
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: Knowledge of business systems throughout the world and how they operate empowers students to make better decisions for managing or working in the business environment. This course was designed for students who are pursuing a business major in college in order to gain the necessary experience to compete in our global economy. In this course, students examine the problems and challenges of operating a business in a global environment. Topics include cultural and social influences, e-commerce, ethical issues, the securities market, currency exchange, and current trends in the global workplace. Students will get to select a country of their choice for the class. They will conduct research, give a presentation, design a postcard, develop a tri-fold brochure, create a greeting card, and prepare a native food item to share with the class.

PRINCIPLES OF ACCOUNTING I

Course Number: 610
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 10-12

Description: Accounting is the Language of Business! Principles of Accounting I provides an excellent background for college accounting and also provides a solid foundation for any business career. The concepts of assets, liabilities, and owner's equity are studied in depth. Students reinforce their understanding of accounting procedures by working through realistic accounting cycles for a sole proprietorship and a merchandising business organized as a corporation. Business transactions are analyzed, recorded, and summarized for the preparation of general-purpose financial statements—the same statements that large corporations use to report financial ratios, component percentages, and stockholders' equity. In addition, students complete a simulation and are also presented with instructional activities that reinforce mathematical and critical thinking skills.

PRINCIPLES OF ACCOUNTING II

Course Number: 611
Prerequisite: Principles of Accounting I

Credit/Term: .50/sem
Grade Level: 10-12

Description: This course provides an extensive background in advanced fields of accounting for those student who will be majoring in or seeking a career in business administration, finance, banking, and other areas of business. Greater depth in specialized accounting, corporate accounting, and departmentalized accounting is studied with students, using spreadsheets and financial analysis. Principals of Accounting II is for those students who want to further their understanding of accounting to a higher level. In this class, students will complete accounting cycle problems using real-life simulations and integrated accounting software. This class will prepare students for the business and academic world. It is strongly recommended that students electing this course have achieved a final grade of 85% or higher in Principles of Accounting I.

ENTREPRENEURSHIP

Course Number: 619
Prerequisite: Introduction to Business

Credit/Term: .50/sem
Grade Level: 10-12

Description: Entrepreneurship is a business/marketing course where students learn what it is to be a successful entrepreneur. They will learn how to create, promote, and operate a business. Students will learn what it takes to be an effective leader, develop problem solving and decision-making skills, create written communications, and practice public speaking skills. Their business idea will be developed into a mock business plan. Various computer applications, as well as the internet, are utilized. Success stories will be shared from teens and famous entrepreneurs.

BUSINESS AND PERSONAL LAW

Course Number: 620
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 10-12

Description: This course is designed to provide students with an overview of our legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. Knowledge of business law is particularly useful because all students eventually assume the role of citizen, worker, and consumer in society. This course emphasizes legal concepts that are relevant to business and everyday life. Topics examined in these courses typically include contracts, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, crimes, legal organizational structures, and consumer liabilities. Guest speakers from various areas of business and law will visit our class to aid students in exploring career options.

CHS VISUAL BASIC I

Course Number: 622
Prerequisite: 70% or better in Math

Credit/Term: .50/sem
Grade Level: 9-12

Description: Visual Basic I is the recommended introductory course for students to learn the basics of programming. It is as easy as clicking and dragging with a mouse onto a design area to create applications. Along the way, students will learn how to make applications work by writing a minimal amount of program code. This course will enhance math and science skills. Topics include the design of the graphical user interface using Visual Basic objects and executing by clicking on these objects (e.g. buttons, check-boxes, etc.) Additional topics include creating memory locations, decision and looping structures, random numbers, string manipulations, and custom procedures or sub-routines. Students may earn college credit for this course and CHS Visual Basic II by registering and paying the requisite tuition and enrollment fees as required by the university. Both courses must be taken for college credit affiliated with the University of Pittsburgh.

CHS VISUAL BASIC II

Course Number: 623
Prerequisite: CHS Visual Basic I

Credit/Term: .50/sem
Grade Level: 9-12

Description: This course is an advanced Visual Basic.Net class continuing with the design of the graphical user interface, using Visual Basic forms, controls and tools, and event-driven programs. Topics include a review of basic programming techniques, mathematical/business functions, array processing, graphics, colors and sounds, sequential access files, random access files, sorting and searching, menus, dialogs, and multiple forms, linking external files, and Visual Basic game programming. Students may earn college credit for this course and CHS Visual Basic I by registering and paying the requisite tuition and enrollment fees as required by the university. Both courses must be taken for college credit affiliated with the University of Pittsburgh. The above courses (622 Visual Basic I and 623 Visual Basic II) have to be taken in either the same academic school year, or course number 622 in year I and course number 623 in year 2 to be enrolled in the College in High School program for Visual Basic.

HONORS C# PROGRAMMING**Course Number: 624****Prerequisite: 70% or better in Math, CHS Visual Basic I****Credit/Term: 1.00/year****Grade Level: 10-12**

Description: This honors course uses a language called C# (pronounced C-sharp) to create computer programs. This course will include analysis of business, science, and math problems. The C family of languages is essential in engineering and robotics projects and careers. After a brief review of basic programming techniques, students will study such topics as creating memory locations, input/output commands, decision and repetition (looping) statements, string manipulation, arrays, and file processing. Learning C# will work together with Microsoft XNA to create games for Xbox!

CHS JAVA PROGRAMMING**Course Number: 625****Prerequisite: 70% or better in Math****Credit/Term: .50/sem****Grade Level: 9-12**

Description: This course is an introduction to programming using the Java language and it is a prerequisite for the AP Computer Science course. The writing and implementing of object-oriented, logically structured, well-documented computer programs and the development of good programming habits are emphasized. Content includes object-oriented programming, basics of Java, decision structures, and looping. Concepts learned in the Java course are built upon and extended into AP Computer Science. Class activities include lecture, demonstration, and reading assignments as well as hands-on computer experience. Students will develop, write, edit, de-bug, and run programs using the Java language. Students also have the option to register with the University of Pittsburgh to earn college credit through their College in High School program by registering and paying the requisite tuition and enrollment fees as required by the university. This course provides the equivalent of college-level work for computer science majors.

INTRODUCTION TO GAME PROGRAMMING**Course Number: 626****Prerequisite: 70% or better in Math****Credit/Term: .50/sem****Grade Level: 9-12**

Description: Students will learn how to create dynamic, robust, and entertaining 2-D games in this game-programming course. Students begin with an overview of the Flash graphical user interface (GUI), explaining the four main components of the Flash authoring environment: the stage, timeline, tools and panels, and symbols. Topics include using the ActionScript language (to write code in Flash), creating storyboards for a game, adding animation and visual effects, inserting movie clips and sound files, and applying math and science concepts to make game objects move.

Fine Arts and Crafts

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At the conclusion of an AP course students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agency to college admissions offices for a possible advanced standing and/or credit in the freshman year of college.

Students are encouraged to reach their full potential by challenging themselves in the most rigorous courses in which they can experience success. Teachers and counselors assess each student's academic ability and encourage appropriately challenging classes.

STUDIO ART I

Course Number: 700
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 9-12

Description: Studio Art I is an introductory course wherein students improve drawing skills through observation and imagination. Students learn how to use a variety of materials to produce original works of art. Students also learn painting, printmaking, and sculptural skills.

STUDIO ART II

Course Number: 701
Prerequisite: Studio Art I

Credit/Term: 1.00/year
Grade Level: 10-12

Description: Students in Studio Art II develop a mastery of skills in the areas of drawing, painting, print making, and two-and three-dimensional design. Using their knowledge of the elements and principles of design, students continue their growth as artists as they work on interpretation of original ideas through various media and techniques. Students will work to expand their artistic concepts, as well as progress toward an individual style.

STUDIO ART III

Course Number: 702
Prerequisite: Studio Art II

Credit/Term: 1.00/year
Grade Level: 11-12

Description: Studio Art III focuses on the continual development of the student artist while addressing concerns related to the quality of work through more in-depth experiences in areas such as drawing, painting, printmaking, sculpture, and two-and three-dimensional design. The students incorporate the study of art history as a resource and continue to use critical, analytical, and evaluative thinking skills.

STUDIO ART IV

Course Number: 703
Prerequisite: Studio Art III

Credit/Term: 1.00/year
Grade Level: 12

Description: Studio Art IV is an advanced course intended for those students who plan to specialize in some aspect of the visual arts upon graduation from high school, as well as those who wish to pursue their continued development as artists. Emphasis is placed on the expansion of the student's portfolio for the purpose of gaining acceptance to a college, university, or professional art school. Individual units are planned and developed in cooperation with the instructor based upon specific concepts, media and techniques, and exploration of personal expression. Students are expected to work beyond the scheduled class periods in order to complete their assignments.

AP ART HISTORY

Course Number: 704
Prerequisite: None

Credit/Term: 1.00/year
Grade Level: 11-12

Description: This course does not require artistic ability! AP Art History is a college-level introductory course for students who wish to study art history from ancient perspectives to the present. Course studies result in an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Issues such as politics, religion, patronage, gender, function, and ethnicity will be considered. Daily activities may include rigorous reading and writing assignments, class discussions, image comparisons, and museum tours. This course is recommended for students willing to make a high commitment to their academic work. Experience in studio art is not required.

CRAFTS I

Course Number: 706
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: Crafts I, an introductory course, offers an exploration into various aspects of crafting. Students are instructed in the use of various materials, which may include glass, metal, wood, clay, fibers, paper, and mixed media. Students learn how to adapt designs from a variety of resources as well as create their own designs. Students must demonstrate and/or pass a safety procedures test prior to using hand tools and machines.

CRAFTS II

Course Number: 707
Prerequisite: Crafts I

Credit/Term: .50/sem
Grade Level: 9-12

Description: This is an intermediate course designed to expand upon techniques, media, and project design learned in Crafts I. Students continue developing proficiencies in glass, metal, wood, clay, fibers, paper, and mixed media. Students must demonstrate and/or pass a safety procedures test prior to using hand tools and machines.

CERAMICS I

Course Number: 709
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: This is an introductory course in ceramic processes. Ceramics I provides an opportunity for students to experience methods of working with clay. Areas explored include various hand-building techniques, wheel thrown pieces, ceramic sculpture, and various decoration techniques.

CERAMICS II

Course Number: 710
Prerequisite: Ceramics I

Credit/Term: .50/sem
Grade Level: 9-12

Description: This is an intermediate course in the ceramics processes built on knowledge gained in Ceramics I. Emphasis is placed on perfecting hand-building methods, craftsmanship, wheel throwing, and producing matched forms in sets. Processes are expanded by size, surface treatments, trimming, and decoration. Students will incorporate investigation of cultural designs and artists as a resource.

ADVANCED CERAMIC TECHNIQUES

Course Number: 712
Prerequisite: Ceramics II

Credit/Term: .50/sem
Grade Level: 10-12

Description: Advanced Ceramics Techniques is an advanced-level course in the ceramics processes. This course is an independent study, designed to allow the ceramic student to expand and build upon the skills and knowledge acquired in Ceramics I and II. Students are expected to produce ceramic pieces of superior levels of quality and competency. This course may be elected for one or more semesters;

therefore, it is advised that the student meet with the instructor prior to scheduling. In order to repeat the course for additional credit, the student must maintain an 80 percent average or higher.

HS DIGITAL ILLUSTRATION	Credit/Term: .50/sem
Course Number: 714	Grade Level: 9-12
Prerequisite: None	

Description: This course is intended to provide an opportunity to explore digital illustration and computer art. The students will experience the computer studio process of creating art using current software. The effect of styles, techniques, and art movements on computer images will be explored. Attention will be given to vector illustration and the relevance of digital art in today's job market. Three college credits can be obtained with a B average or better. Students in grades 10-12 may earn college credit by registering through La Roche College and paying the registration fee as required by the college.

CHS DIGITAL PHOTOGRAPHY	Credit/Term: .50/sem
Course Number: 715	Grade Level: 9-12
Prerequisite: None	

Description: An introduction to basic concepts, processes, and techniques of photography, including camera usage, digital editing, composition, lighting, and the application of these techniques. Three college credits can be obtained with a B average or better. Students in grades 10-12 may earn college credits by registering through La Roche College and paying the requisite registration fees as required by the college.

METALSMITHING I	Credit/Term: .50/sem
Course Number: 716	Grade Level: 9-12
Prerequisite: None	

Description: Metalsmithing I is an introductory course. Students will demonstrate the basic skills and techniques used in production, along with safe and proper use of hand tools, machinery, and equipment. Metalsmithing skills/processes may include etching, piercing, casting, sawing metal, soldering, finishing techniques and decorative surface treatments.

JEWELRY & METALSMITHING II	Credit/Term: .50/sem
Course: 717	Grade Level: 9-12
Prerequisite: Metalsmithing I	

Description: Jewelry and Metalsmithing II is an intermediate course exploring advanced jewelry and Metalsmithing techniques using materials and tools already established and introduced in Metalsmithing I. Students will study cultural developments in metal as a decorative art form. Materials explored may be in sterling silver-art, copper, brass, nickel silver, glass, cast pewter, and soldered metal. Identifying quality composition and construction of jewelry with hand-made finishing is the core of this course.

WOOD CRAFTS I	Credit/Term: .50/sem
Course Number: 719	Grade Level: 9-12
Prerequisite: None	

Description: Wood Crafts I is an introductory course designed to teach the fundamentals of wood crafting. Students explore the functional and ornamental use of wood. Basic woodworking skills and techniques used in production are emphasized, along with safe and proper use of hand tools, power tools, and equipment. Projects developed for the course concentrate on basic cutting, carving, sculpture, and finishing processes. Students must demonstrate and/or pass a safety procedures test prior to using hand tools and machines.

WOOD CRAFTS II**Course Number: 721****Prerequisite: Wood Crafts I****Credit/Term: .50/sem****Grade Level: 9-12**

Description: Wood Crafts II is an intermediate course designed to expand the student's skill and knowledge of wood crafting. Additional processes may include laminating, fabrication, carving, and expanded decorations. Basic skills and techniques acquired in Wood Crafts I are used as a foundation for the students to create their own design. Students must demonstrate and/or pass a safety procedures test prior to using hand tools and machines.

CHS GRAPHIC DESIGN I**Course Number: 722****Prerequisite: None****Credit/Term: .50/sem****Grade Level: 9-12**

Description: This is an introductory course in graphic design. Students create advertisements, posters, billboard designs, and a variety of other practical applications. Students create the digital work projects on the computer using current graphic design software. Three college credits can be obtained with a B average or better. Students in grades 9-12 may earn college credits by registering through La Roche College and paying the registration fee as required by the college.

CHS GRAPHIC DESIGN II**Course Number: 723****Prerequisite: CHS Graphic Design I****Credit/Term: .50/sem****Grade Level: 9-12**

Description: Graphic Design II is an intermediate course designed to expand the knowledge and skills acquired in Graphic Design I. Students gain valuable and practical experience by completing projects such as logo design, brochures, and package design. Three college credits may be obtained with a B average or better. Students in grades 9-12 may earn college credits by registering through La Roche College and paying the registration fee as required by the college.

Music

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CONCERT BAND: PERCUSSION

Course Number: 725

Prerequisite: None

Credit/Term: 1.00/year

Grade Level: 9-12

Description: All students interested in learning percussion instruments may schedule Concert Band as an elective. The objectives of the course are to learn and use fundamentals of music, to develop proper percussion techniques, and to study and perform selected musical pieces.

SYMPHONIC BAND: BRASS/WOODWINDS

Course Number: 726

Prerequisite: None

Credit/Term: 1.00/year

Grade Level: 9-12

Description: This is the primary performing organization for instrumental music students who play wind instruments. Symphonic band techniques are presented as students prepare for performances ranging from formal concert band music and symphonic transcriptions to contemporary, popular, and show music.

STAGE BAND

Course Number: 729

Prerequisite: Audition/Director Recommendation

Credit/Term: 1.00/year

Grade Level: 9-12

Description: The Stage Band is a traditional Big Band, featuring saxophones, trumpets, trombones, and a rhythm section. Jazz techniques are presented as students prepare for performances. Styles include Swing, Rock, Latin, Funk, and Ballads. Participation in this ensemble is limited and an audition and permission from the instructor is required.

ORCHESTRA

Course Number: 730

Prerequisite: None

Credit/Term: 1.00/year

Grade Level: 9-12

Description: All students who play the accepted string instruments of the symphony orchestra may schedule this class as an elective. This daily string class provides an opportunity for students to increase their knowledge of fundamentals of music, to further develop their instrumental techniques, and to become acquainted with and perform the highest level of music within their capabilities.

HIGHLANDER CHOIR

Course Number: 737

Prerequisite: None

Credit/Term: 1.00/year

Grade Level: 9-12

Description: This course is designed for beginner, intermediate, and advanced music lovers who would like to develop singing and musicianship while building confidence and self-discipline. In this class, members work as a team to produce two large-scale projects: a winter performance and a spring performance. Students participate in every aspect of the productions from marketing and publicity to lights and sound. There is no homework or required fundraising for this class. Beginner students and those who need help with confidence will sing in groups. Advanced, experienced, and returning students will have the opportunity to pursue higher levels of performance including solo singing and up to 5 levels of achievement. Although there are many opportunities to sing in community events and charity fundraisers, there are only two required concerts for the entire year. To read student testimonials, see sample lessons, and ask questions, please visit www.bhsmusic1.weebly.com

GUITAR	Credit/Term: 1.00/year
Course Number: 740	Grade Level: 9-12
Prerequisite: None	

Description: This course is designed for beginning guitar students; no prior musical knowledge is necessary. Students need not own their own guitar. Popular music is used as a vehicle to teach guitar techniques. Lead/Chord Sheets and Guitar Tab are both used extensively. The history of Rock ‘n Roll is also interwoven into the course.

PIANO CLASS I	Credit/Term: 1.00/year
Course Number: 741	Grade Level: 9-12
Prerequisite: None	

Description: This course is perfect for any beginner who would like to learn to play the piano while, at the same time, explore the human brain, memory retention, and The Mozart Effect. There is no homework for this class, and there is no need to have a piano at home. Each student has his/her own workstation that includes a piano keyboard, headphones, and a computer. Participants learn popular songs such as Billy Joel’s “Piano Man”, John Lennon’s “Imagine”, and songs by The Fray, Sara Bareilles, Journey, and more. Using music software and step-by-step PowerPoint lessons, students learn basic sight-reading interlaced with chord patterns and rhythms, ear training, and music theory. Students create their own composition and learn how to copyright a musical work. At the end of the year, all pianists perform as a group in The Piano Recital Annual Charity Fundraiser. The recital counts as a part of the student’s final exam grade. To read student testimonials, see sample lessons, and ask questions, please visit www.bhsmusic1.weebly.com

PIANO CLASS II	Credit/Term: 1.00/year
Course Number: 742	Grade Level: 10-12
Perquisite: Piano Class I	

Description: This course transforms the Level I piano player into a more independent Level II player. Students learn common practices and a systematic approach to the learning of any piano song that will set them up to be successful players for years to come. There is no homework for this class, and there is no need to have a piano at home. Each student has his/her own workstation that includes a piano keyboard, headphones, and a computer. Participants learn popular songs such as Journey’s “Don’t Stop Believing”, Train’s “Drops of Jupiter”, and songs by Kelly Clarkson, Sara Bareilles, and more. Using music software and step-by-step PowerPoint lessons, students learn more advanced sight-reading and music theory. At the end of the year, all pianists perform as a group in The Piano Recital Annual Charity Fundraiser. The recital counts as part of the student’s final exam grade. To read student testimonials, see sample lessons, and ask questions, please visit www.bhsmusic1.weebly.com

PARTNERS MUSIC	Credit/Term: 1.00/year
Course Number: 741P	Grade Level: 9-12
Prerequisite: Application to course	

Description: This course is highly recommended for students who may want to pursue a degree in education. This dynamic course uses instruments, creative storytelling, movement, and songs to improve the physical, emotional, and social development of both regular education and special education students. These students will work together to create and implement hands-on activities concentrating on the enhancement of life skills, the development of fine motor skills, social interaction, teamwork, and music appreciation. The course offers a window into a better understanding of music and how it makes us feel, how it moves us, and how it can be used as a tool to expand our understanding of human interaction. Please visit www.bhsmusic1.weebly.com for more information including an application, sample lessons, and more.

Industrial Technologies & Engineering

<http://bwcourseselectionguide.weebly.com/>

MATERIALS TECHNOLOGY I

Course Number: 801

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This is an introductory class for material fabrication and machine operation. The utilization of power and hand tooling is used to create a project from start to finish. This course is oriented toward careers in cabinetry, carpentry, and/or computer aid machining.

MATERIALS TECHNOLOGY II

Course Number: 803

Prerequisite: Materials Technology I

Credit/Term: .50/sem

Grade Level: 9-12

Description: This course is a continuation of Material I, focusing on further development of skills and accuracy of hand and machine use. Emphasis is on accurate development of joinery and fits in a variety of projects. This course is oriented toward careers such as cabinetry, carpentry, and CNC machine operation.

ENERGY AND POWER MECHANICS I

Course Number: 805

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This course involves a hands-on study of energy and power. Students will explore and analyze the fundamentals of power and mechanical systems. Activities include working with new alternative power energy sources, the internal combustion engine, and electro-mechanical power equipment. This path of study will provide opportunities for students transitioning from school to work and for students pursuing careers in fields such as engineering, manufacturing, or service-oriented degrees.

ENERGY AND POWER MECHANICS II

Course Number: 806

Prerequisite: Energy and Power Mechanics I

Credit/Term: .50/sem

Grade Level: 9-12

Description: This second level course provides an in-depth experience in power mechanics and alternative energy systems. Mechatronic (mechanical and electronic) activities include working with fluid power systems (hydraulics/pneumatics) and studying the electro-mechanical processes used in heavy machinery such as forklifts, excavators, and manufacturing equipment.

ROBOTICS I

Course Number: 808

Prerequisite: None

Credit/Term: .50/sem

Grade Level: 9-12

Description: This class develops teamwork, logical thinking, creativity, and problem-solving skills. It utilizes the VEX Robotic Platform with the Robot C Software as the primary vehicle of instruction. Students will be presented with various challenges to meet these goals. The class will introduce students to basic mechanical and electronic concepts.

ROBOTICS II		Credit/Term: .50/sem
Course Number:	809	Grade Level: 9-12
Prerequisite:	Robotics I	

Description: This course is modeled after a course developed by Carnegie Mellon University. Students will continue developing problem-solving, teamwork, and project management skills learned in Robotics I. They will set project milestones, perform design reviews, and keep a journal to track their progress. The students will be encouraged to ask “what if” questions and to think “outside the box.” This course also utilizes Computer Aided Drafting to help solve the various challenges presented to them. Students will be challenged to design a robot for regional competition.

GRAPHICS I		Credit/Term: .50/sem
Course Number:	810	Grade Level: 9-12
Prerequisite:	None	

Description: This introductory class enables students to make projects using printing and graphics processes including intaglio printing, digital photography, porous screen-printing, and bookbinding. Additional processes include darkroom usage, layout and measuring, simple binding and cutting techniques, hand tool operations, and laser engraving. Project options include T-shirt prints, buttons, calendars, note pads, and dry point etch. Students will use computers to assist with layout and processing images for reproduction.

GRAPHICS II		Credit/Term: .50/sem
Course Number:	811	Grade Level: 9-12
Prerequisite:	Graphics I	

Description: Students selecting this course can expect to be involved in more challenges and activities that resemble processes found in the industry of graphic arts. Projects include a full-color poster, glass etching, sign painting, digital photography, porous screen-printing, vinyl letter cutting, bookbinding, and laser engraving. Students will use computers to assist with most projects.

COMPUTER-AIDED DRAFTING AND DESIGN		Credit/Term: .50/sem
Course Number:	815	Grade Level: 9-12
Prerequisite:	None	

Description: This course is an introductory course designed to enable students to learn about various drafting techniques. Tech Drawing prepares students for more advanced courses and deals with the general principles of drafting, illustration, and reading and interpreting drawings. This course also utilizes drafting equipment for the layout of technical illustrations and introduces students to AutoCADD.

3D ENGINEERING AND DESIGN		Credit/Term: .50/sem
Course Number:	817	Grade Level: 9-12
Prerequisite:	Computer-Aided Drafting and Design	

Description: Students in this class will use Auto Desk Inventor to create solid and parametric models. Students will draw objects and parts in 2-dimensional sketches and use Inventor to convert them into 3D models. The course will establish a good basis for the growing field of computer-aided engineering.

ARCHITECTURAL DESIGN		Credit/Term: .50/sem
Course Number:	818	Grade Level: 9-12
Prerequisite:	Computer-Aided Drafting and Design	

Description: This course covers conceptual designs, development, documentation, and presentations for residential layouts. Students will draw floor plans, elevations, and rendered perspective drawings. All work is done utilizing REVIT Architecture 2015.

ELECTRONICS TECHNOLOGY I

Course Number: 820
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: This course explores basic concepts in electricity and electronics. Students build projects using tools and processes common to the electronics field as well as understanding components and schematics reading. Project work includes both individual and small group activities.

ELECTRONICS TECHNOLOGY II

Course Number: 821
Prerequisite: Electronics Technology I

Credit/Term: .50/sem
Grade Level: 9-12

Description: Electronics Technology II builds upon the concepts presented in Electronics Technology I. Units of study include Basic Concepts, Electrical Quantities and Units, Electrical Instruments and Measurements, Basic Circuits and Laws, Circuit Components, Multi-Load Circuits, Complex Circuit Analysis, Magnetism and Electromagnetism, Alternating Current and Voltage, Power in AC Circuits, Capacitance, Inductance, Transformers, Electric Motors, and Residential Wiring Concepts.

VIDEO PRODUCTION I

Course Number: 822
Prerequisite: None

Credit/Term: .50/sem
Grade Level: 9-12

Description: Video Production I is a course in student creativity that provides the student with the skills of video editing, sound editing, basic animation, lighting design, DVD menu production, and image editing techniques. Students will bring their favorite movies to life whether already in production or just a long time dream. "Tell me and I will forget. Show me and I may remember. Make a movie and I will understand."

CHS VIDEO PRODUCTION II

Course Number: 823
Prerequisite: Video Production I

Credit/Term: .50/sem
Grade Level: 9-12

Description: Video Production II is a course in career exploration where students may earn college credit through Point Park University. Students will be exposed to the environment of professional video production and editing, animation design, sound mixing, narrative script writing, Chroma-key, lighting design, and high definition video. Student experiences include concentrated fieldwork and use of high tech software and equipment. "Videographer" projects may include music videos, commercials, highlight videos, historical documentaries, or instructor approved independent projects. "Do you have what it takes to be a director?"

PRODUCTION STUDIOS

Course Number: 824
Prerequisite: Audition; Director recommendation

Credit/Term: 1.00/year
Grade Level: 10-12

Description: In this course, students will be immersed into the highly technological field of live broadcast. Student-led teams will coordinate live announcements that exemplify a true "behind the scenes" experience. Focuses include sound development, lighting, communication, Chroma-key, direction, teleprompting, and camcorder methodology. "We bring the news!"

Family and Consumer Sciences

<http://bwcourseselectionguide.weebly.com/>

Fashion Design I		Credit/Term: .50/sem
Course Number:	825	Grade Level: 9-12
Prerequisite:	None	

Description: This course is for students who enjoy fashion and being creative. Students will study the principles and elements of design and apply their knowledge to original fashion drawings (Croquis). Students will also construct garments following a pattern. Additionally, students will acquire a working knowledge of fabrics and textiles. Students will complete a career exploration unit including careers in design, textiles development, and fashion.

Fashion Design II		Credit/Term: .50/sem
Course Number:	829	Grade Level: 9-12
Prerequisite:	Fashion Design I	

Description: This course is for students who would like to enhance their knowledge of fashion design, clothing construction, and textiles. Students will create a portfolio of construction skills including zipper placements, buttonholes, and French seams, to name just a few, and also be given the opportunity to work with technologically advanced sewing equipment. Students will explore the history of fashion and fashion designers. Students will also research past and current textiles trends and their influences on fashion. Finally, students will select patterns and construct clothing projects.

Interior Design		Credit/Term: .50/sem
Course Number:	837	Grade Level: 9-12
Prerequisite:	None	

Description: Interior Design is for those students who enjoy interior decorating or are considering it as a career choice. Projects include developing floor plans, selecting furniture styles, applying design basics, choosing color schemes, and creating unity within rooms of a home. Elements and principles of design are studied as an integral part in selecting furnishings and accessories.

Introduction to Culinary Arts		Credit/Term: .50/sem
Course Number:	826	Grade Level: 9-12
Prerequisite:	None	

Description: This elective focuses on safety and sanitary practices in the kitchen. Students will learn measuring, mixing techniques, and how to use and care for common equipment found in the kitchen. Units of study will be pasta, quick breads, breakfast foods and healthy snacks, use of the microwave, along with other kitchen tools. Students will learn about food borne illness and ways to prevent germs from spreading while preparing food. The course will also focus on the purchase, storage, and preparation of food that will be applied to overall personal nutrition. Students must receive a 70% or higher to take the Advanced Culinary Arts course.

Advanced Culinary Arts		Credit/Term: .50/sem
Course Number:	831	Grade Level: 11-12
Prerequisite:	Introduction to Culinary Arts	

Description: This course is designed to provide in-depth training in food preparation techniques. Skills learned can be applied when working in a restaurant, other food establishment, or just for personal knowledge. Units of study include baking techniques, quick breads, pastry, appetizers, main entrees, desserts, salads, sandwiches, cookies, etc. Other topics include quantity food preparation, use and care of

equipment, sanitation, safety, and skills for working with a team. Students will also learn the process of making a grocery order, purchasing foods, preparing a menu, and costing out a recipe.

Nutrition and Foods	Credit/Term: .50/sem
Course Number: 830	Grade Level: 10-12
Prerequisite: None	

Description: The objective of this course is to introduce students to healthy eating habits by studying current food issues such as fats in the diet, food fads, supplements, and eating disorders. Units of study include fruits and vegetables, meats and meat alternatives, grains, and dairy products. During the course of the semester, students have the opportunity to plan, prepare, taste, and evaluate traditional and international foods. This course is strongly recommended for students pursuing healthy food choices that last a lifetime.

Child Development	Credit/Term: .50/sem
Course Number: 828	Grade Level: 10-12
Prerequisite: None	

Description: In this class, students will explore the development of children from conception through adolescence. The course will focus on developmental stages in areas of physical, social, emotional, and cognitive development. Students will discover how parents and caregivers can impact the positive development of a child. Students considering careers in teaching, nursing, and health and human services should consider taking this class. The course is highly recommended for students who would like to take Preschool Education.

Preschool Education	Credit/Term: 2.00/year
Course Number: 833	Grade Level: 12
Prerequisite: Child Development is highly recommended	

Description: This is an advanced course requiring higher-level writing and communication skills that takes place over two periods each day. It prepares students for careers in education, pediatric nursing, social work, speech pathology, psychology, physical and occupational therapy and other types of health and human services careers. The students will work with teams of other students to run an onsite preschool for four-year-olds. The students will learn positive guidance techniques, how to write lesson plans, and management and presentation skills. Students are expected to maintain professional attitudes and appearances at all times. Additionally, students are required to take regular anecdotal observations of their students and complete observation reports. It is highly recommended that students take Child Development prior to enrolling in Preschool Education. All students are required to get two teacher recommendations. Stop by room 229 after winter break to get these forms!

Health & Physical Education

PHYSICAL EDUCATION 9

Course Number: 900 (semester)
932 (year: 2/3 days/week w/science lab)

Credit/Term: .50/sem

Grade Level: 9

Prerequisite: None

- **Activities may include: soccer, softball, lacrosse, angle ball, basketball, hockey, volleyball, speedball, ultimate Frisbee, tennis, badminton, physical fitness, weight room, and instructional swimming.**

Description: The varied activities included in the physical education program contribute to the physical, mental, and social well-being of the student. These activities are not only concerned with the present development of the students' skills but they are designed to promote leisure-time activities and an awareness of the importance of personal fitness in adult life. The ninth grade students' program will emphasize skill development in all areas. This class includes a required four-week swimming unit.

PHYSICAL EDUCATION WITH BASIC SWIMMING

Course Number: 902

Credit/Term: .50/sem

Grade Level: 9-12

Prerequisite: None

- **Activities may include: Instructional swimming/developing swimming skills football, hockey, lacrosse, volleyball, soccer, softball, and ultimate Frisbee.**

Description: This course is an alternative to the traditional Physical Education course placing special emphasis on developing swimming skills. This course is designed for a non-swimmer and for a student with weak swimming skills. Other varied activities included in this course contribute to the physical, mental, and social well-being of the student. These activities are not only concerned with the present development of the students' skills, but are designed to promote leisure-time activities and an awareness of the importance of good personal fitness for their adult lives. A student in this class will swim on average of 2-3 times per week.

HEALTH

Course Number: 904

Credit/Term: .50/sem

Grade Level: 10

Prerequisite: None; *this is a required course for all 10th grade students*

Description: Health Education is a required subject for all students in Grade 10, beginning with the class of 2018. The program focuses on the physical, mental and social wellness of the individual and strives to create lifetime awareness. All units taught are self-esteem, decision-making skills, sexuality, tobacco, nutrition and CPR training. In addition, drug and alcohol abuse education will be taught.

WELLNESS 9

Course Number: 908 (semester)
936 (year; 2/3 days/week)

Credit/Term: .50/sem

Grade Level: 9

Prerequisite: None

- **Activities may include: Yoga, Pilates, aerobic dance, body pump routine, movement/gymnastics, body sculpting, and instructional swimming/water aerobics.**

Description: This course is an alternative course to the traditional physical education course placing special emphasis on improving and enhancing the students' wellness and fitness level. Students aspiring to lose weight with body toning, and improve or enhance personal wellness are encouraged to enroll in this course. This class will include the equivalent to a three-week swimming unit. The yearlong class allows for participation in science labs on alternate days of the week.

HEALTH AND PHYSICAL EDUCATION ELECTIVES

INDIVIDUAL SPORTS

Course Number: 920 (semester)
940 (year; 2/3 days/week)
w/science lab)

Credit/Term: .50/sem

Grade Level: 10-12

Prerequisite: Physical Education (900 or 932) or Wellness (908 or 936)

- This course is offered 3, 4, or 5 days per week with teacher and counselor permission based on students who need it to run opposite of science labs.
- Activities may include: tennis, pickle ball, badminton, golf, ping pong, Frisbee golf, and recreational games including bocce, corn hole, horseshoes, etc.

Description: Students will experience a variety of activities that focus more on individual participation rather than team effort; lifetime activities rather than traditional sports. Students learn new ways to be active. These activities are not only concerned with the present development of the students but also are designed to promote leisure-time activities and an awareness of the importance of good personal fitness for students into their adult life.

TEAM SPORTS

Course Number: 922 (semester)
942 (year; 2/3 days/week)
w/science lab)

Credit/Term: .50/sem

Grade Level: 10-12

Prerequisite: Physical Education (900 or 932) or Wellness (908 or 936)

- This course is offered 3, 4, or 5 days per week with teacher and counselor permission based on students who need it to run opposite of science labs.
- Activities may include: ultimate Frisbee, speedball, ultimate football, flag football, soccer, softball, lacrosse, basketball, hockey, and volleyball.

Description: Students will experience a variety of team activities that help improve personal fitness levels and may be played at any age. These activities are not only concerned with the present development of the students but also are designed to promote leisure-time activities and an awareness of the importance of good personal fitness for students into their adult lives. The course will promote competitive tournament-style game play.

PHYSICAL EDUCATION WITH LIFE GUARDING/STANDARD FIRST AID/CPR

Course Number: 923

Credit/Term: .50/sem

Prerequisite: Physical Education (900 or 932)

Grade Level: 10-12

Description: The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize, and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries, and sudden illnesses until emergency medical services personnel take over. To enroll in the Lifeguarding course, students must be at least 15 years old before the last scheduled class session in order to be certified.

ADVENTURE OUTDOOR EDUCATION

Course Number: 924

Credit/Term: .50/sem

Prerequisite: Physical Education (900 or 932) or Wellness (908 or 936).

Grade Level: 10-12

Description: This course is designed for students who may have an interest in the Outdoor Recreation/Education Industry, one of the fastest-growing industries in America. This class will include knowledge about archery, biking, fly fishing, camping, kayaking, group management, risk management, policy and procedure development for the activities and the area, land-management awareness, and environmental ethics. Outdoor Leadership students are expected to teach/introduce the particular area/activity.

STRENGTH TRAINING**Course Number: 925****Prerequisite: None**

- **Activities may include: Plyometrics, circuit training, flexibility, weight lifting, and aquatic activities.**

Credit/Term: .50/sem**Grade Level: 9-12**

Description: This course is an alternative course to the traditional physical education course placing an intensive emphasis on developing, improving, and enhancing the students' performance-based fitness level. At the completion of strength training, students will increase their strength, improve their flexibility and agility, and improve upon the efficiency of their cardiovascular system. They will gain an understanding of the muscle groups and exercise physiology.

AQUATIC ACTIVITIES**Course Number: 926****Prerequisite: Physical Education (900 or 932) or Wellness (908 or 936)****Credit/Term: .50/sem****Grade Level: 10-12**

Description: The aquatic elective consists of the following co-ed activities in our state-of-the-art pool facilities: team building, aqua games (basketball, volleyball, and water polo), aqua jogging, snorkeling, diving, racing, kayaking, and canoeing. Students will be expected to be in the pool the majority of the class period.

INTRODUCTION TO CAREERS IN HEALTH AND SPORT**Course Number: 927****Prerequisite: Physical Education (900 or 932) or Wellness (908 or 936)**

- **Students will have the opportunity to be First Aid and CPR Certified in this class.**

Credit/Term: .50/sem**Grade Level: 10-12**

Description: This course prepares students for a possible career in the fields of Physical Therapy, Personal Training, Athletic Training, Recreation Worker, Nursing, EMT, Pre-Med, Sports Medicine, Athletic Management, Community Affairs, and Public Service. As the student's awareness of careers in these healthcare fields is broadened, he/she will develop an understanding of the necessary skills for success in a multitude of people-service professions. This is a classroom based course where students have an opportunity to research health-related fields and meet with professionals associated with a variety of career options.

WELLNESS 10-12**Course Number: 909 (semester)
939 (year; 2/3 days/week w/science lab)****Prerequisite: None**

- **Activities may include: Yoga, Pilates, aerobic dance, body pump routine, movement/gymnastics, body sculpting, and instructional swimming/water aerobics.**

Credit/Term: .50/sem**Grade Level: 10-12**

Description: This course is an alternative course to the traditional physical education course placing special emphasis on improving and enhancing the students' wellness and fitness level. Students aspiring to lose weight with body toning, and improve or enhance personal wellness are encouraged to enroll in this course. This class will include the equivalent to a three-week swimming unit. The yearlong class allows for participation in science labs on alternate days of the week.

PARTNER'S PHYSICAL EDUCATION**Credit/Term: 50/sem****Course Number: 910****Grade Level: 10-12****Prerequisite: Application; Teacher recommendation**

- **Since participation in this class is limited, an application must be completed and permission from the instructor is required. The application can be obtained in the guidance office.**

Description: This course is designed for students to work together to fulfill the needs of all individuals with various ability levels within all typical physical education class activities including but not limited to individual sports, team sports, and swimming. In addition to physical activities, students will engage in social and team building activities. Students in this class who may have any physical or cognitive difficulties can also benefit from the added physical activity taking place in a less restrictive class. Every attempt is made to design activities so that every student with varying ability levels has a partner working alongside him/her to complete a common goal or project. Students enrolling in Partners P.E. should develop partnerships that transcend this class.

Steel Center for Career and Technical Education

Do you want to:

- Prepare yourself for the workforce and postsecondary education at the same time?
- Earn college credit while in high school?
- Earn valuable industry certifications that make you employable right out of high school?
- Earn high school credit while working at a job site in your career field during the school day?
- Work side by side with friends from other high schools?
- Be a part of something extraordinary?

If yes, then consider making Steel Center a part of your day!

STEEL CENTER FOR CAREER AND TECHNICAL EDUCATION

Students who attend Steel Center can gain a labor market advantage through active learning that meets the expectations of 21st century employers and colleges. Each program will guide students through rigorous career oriented practical activities reinforced through core academic instruction. Students' employability will be further promoted by their opportunity to gain Industry Standard Certifications required by local employers. Students also have the opportunity to join a Career and Technical Student Organization where they will learn leadership and citizenship principles. For more information about the opportunities offered at Steel Center, please visit www.steelcentertech.com.

PA DEPARTMENT OF EDUCATION PROGRAMS OF STUDY

In accordance with the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Act), all Postsecondary Institutions receiving funds under the Act are required to award **college-level credit or equivalent clock hours** to a matriculated student and apply that credit toward the completion of the approved Pennsylvania Department of Education (PDE) Program of Study, leading to an industry-recognized credential or certificate **at the postsecondary level, or an associate or baccalaureate degree**. The purpose of this Agreement is to ensure that students make the transition from a school entity (**Steel Center**) to another school entity, college or university or a business/industry without experiencing delays in or duplication of learning. This Agreement sets forth the terms and conditions for the awarding of college-level credit or equivalent clock hours to students who complete the approved PDE Program of Study at a Secondary School so that those students can seamlessly continue their education in a related Program of Study at a Postsecondary Institution. This agreement outlines the general conditions between secondary and postsecondary institutions.

STEEL CENTER COURSE OFFERINGS

Advertising & Design (Program of Study)

Grades 10-12

CIP Code: 50.0402, 3 credits/year.

Industry Certifications Available: Adobe Certified Associate CS6 Photoshop, InDesign, Illustrator, NOCTI Skills Testing Certification

An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

Automotive Mechanics (Program of Study)

Grades 10-12

CIP Code: 47.0604, 3 credits/year.

Industry Certifications Available: Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

Baking/Pastry Chef (Program of Study)

Grades 10-12

CIP Code: 12.0501, 3 credits/year.

Industry Certifications Available: National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

Specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, for consumption in a commercial food service establishment or for special functions. Instruction includes making, freezing and handling of bake products; decorating; counter display; and packaging of merchandise. This is a comprehensive program to prepare individuals for employment in a variety of occupations in the baking industry.

Building Trades (Program of Study)

Grades 10-12

CIP Code: 46.0401, 3 credits/year.

Industry Certifications Available: NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA), OSHA-10 Hour Training CareerSafe

An instructional program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to serve a variety of structures including commercial and industrial buildings and mobile homes. Instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping.

Carpentry (Program of Study)
CIP Code: 46.0201, 3 credits/year.

Grades 10-12

Industry Certifications Available: NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

Collision Repair and Refinishing (Program of Study)
CIP Code: 47.0603, 3 credits/year.

Grades 10-12

Industry Certifications Available: Collision Safety & Pollution Prevention (S/P2), I-CAR Welding, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

Culinary Arts (Program of Study)
CIP Code: 12.0508, 3 credits/year.

Grades 10-12

Industry Certifications Available: National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

Electrical Construction (Program of Study)
CIP Code: 46.0399, 3 credit/year.

Grades 10-12

Industry Certifications Available: NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Health Assistants (Program of Study)
CIP Code: 51.0899, 3 credits/year.

Grades 10-12

Industry Certifications Available: Pennsylvania Nurse Aide Registry, Basic Life Support Health Care Providers, NOCTI Skills Testing Certification

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Heating, Air Conditioning & Refrigeration (Program of Study)
CIP Code: 47.0201, 3 credits/year.

Grades 10-12

Industry Certifications Available: EPA 608 Technician Certification, NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.

Medium/Heavy Truck (Program of Study)
CIP Code: 47.0613, 3 credits/year.

Grades 10-12

Industry Certifications Available: Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, NOCTI Skills Testing Certification

A program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Protective Service (Program of Study)
CIP Code: 43.9999, 3 credits/year.

Grades 10-12

Industry Certifications Available: National Incident Management System, Emergency Medical Responder, Basic Life Support Health Care Providers, Hazardous Materials Response Awareness, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills required for performing entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

Industry Certifications Available: NOCTI Skills Testing Certification, American Welding Society Certification (forthcoming)

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

Work Release

PROGRAM DESCRIPTION

- All seniors who are gainfully employed at least 15 hours per week are eligible to apply for the Work Release program. Students should be aware that Work Release will not be graded and no credit will be awarded.
- In order to qualify for this program, a student must have a minimum of 19 credits by the end of their junior school year and the student must schedule 5 credits for their senior school year.
- It is the responsibility of the student to find and maintain a job. Failure to do so could result in the student being dropped from the program and returned to a full schedule at the high school.
- Students will be excused from school at the end of period 5 to attend Work Release.

Baldwin-Whitehall School District

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District Administration

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Vincent M. Sortino, Athletic Director

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Mark R. Cherpak, Business Manager

Dr. Janeen M. Peretin, Director of Info. & Inst. Tech.

Marissa A. Gallagher, Supervisor of Pupil Services

Randy G. Huddart, Facilities Manager

Building Administration

Baldwin High School (9-12)

412-885-7500

Dr. Walter A. Graves, Principal

John M. Saras, Assistant Principal

Rachel L. Sprouse, Assistant Principal

McAnnulty Elementary (K-1)

412-714-2020

Daniel J. Emanuelson, Principal

Paynter Elementary (K-5)

412-885-7535

Patricia J. Fusco, Principal

Heatherlyn D. Wessel, Assistant Principal

J.E. Harrison Middle School (6-8)

412-885-7530

Jill S. Fleming-Salopek, Principal

Scott D. Ross, Assistant Principal

Jonathan W. Peebles, Assistant Principal

Whitehall Elementary (2-5)

412-885-7525

Jennifer R. Marsteller, Principal

Anissa A. Rosenwald, Assistant Principal

It is the policy of the Baldwin-Whitehall School District not to discriminate on the basis of race, color, religion, sex, ancestry, national origin, age, handicap or disability, or status as a Vietnam-era or special disabled veteran in accordance with applicable federal and state laws, including the Equal Pay Act of 1963, Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Assistance Act of 1974, the Age Discrimination in Employment Act of 1975, the Americans with Disabilities Act of 1991, Pennsylvania Human Relations Act, and the Pennsylvania Equal Pay Act. For information about your rights or grievance procedures contact the Superintendent of Schools, 4900 Curry Road, Pittsburgh, PA 15236, or call 412-884-6300 x7241. 12/7/2016

www.bwschools.net