

BRANDYWINE HEIGHTS AREA SCHOOL DISTRICT

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Mrs. Rosemary Lamaestra – Vice President
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Brandywine Heights Area School District does not discriminate against protected handicapped students. The district is required to send written notice to the student’s parents if a student meets the conditions of Section 15.5 of the State Board of Education’s Chapter 15. Inquires should be directed to the Superintendent’s Office at (610) 682-5100.

Brandywine Heights Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex and handicapped in its activities, programs or employment practices as required by Title VI, Title XI and Section 504. For information regarding civil rights or grievance procedures, information regarding services, activities and facilities that are accessible to and usable by handicapped persons, contact the Superintendent, Brandywine Heights Area School District, 200 W. Weis St., Topton, PA 19562 or call (610) 682-5100.

**BRANDYWINE HEIGHTS
HIGH SCHOOL OFFICE**

Mr. Demetrios Thermenos, *High School Principal*

Ms. Anne Wenninger, *Assistant High School Principal*

Secretary – Ms. Lori Miller
610-682-5102 ext. 2014

Secretary – Mrs. Kim Kilgus
610-682-5102 ext. 2019

Secretary – Mrs. Rosanne Kegerise
610-682-5102 ext. 2012

COUNSELING DEPARTMENT

Mr. David Favata, *Counselor*

Mrs. Kelly Pearsall, *Counselor*

Mr. Robert Allison, *Counselor*

Secretary – Mrs. Roseann Koehler
610-682-5102 ext. 2030

DEPARTMENT HEADS

Mrs. Cathy Berg.....Mathematics Department
Miss Cynthia GabelForeign Language Department
Mr. Brian Goldman.....English Department
Mr. David HerringBusiness Department
Mrs. Cynthia HillegassSocial Studies Department
Mrs. Suzanne OswaldFine Arts Department
Mrs. Kathy Slick.....Practical Arts Department
Dr. Kim Slick.....Science Department

It is the policy of the Brandywine Heights Area School District not to discriminate on the basis of sex, handicap, race, color, and national origin in its educational and vocational programs, activities, or employment as required by Title IX.

SCHEDULING GUIDELINES

I. GRADUATION REQUIREMENTS

In order to be eligible for graduation from the Brandywine Heights Area School District, a student must complete the required courses of instruction with passing grades. They must pass Health I and II and Physical Fitness 9 and 10, complete a culminating project and demonstrate mastery of the PA Academic Standards. These requirements are further described below.

Planned Instruction Requirements

Students must earn **24.6** credits in grades nine (9) through twelve (12) and complete a culminating graduation project. The 24.6 credits include minimums in the following areas:

English	4.0 credits
Social Studies	3.5 credits
Science	3.0 credits (4.0)*
** Mathematics	3.0 credits (4.0)*
Arts	1.0 credit
Wellness/Fitness	1.0 credit
Computer	1.0 credit
Electives	8.0 credits
Career Education	<u>0.1 credit</u>
	24.6 credits

***Students must earn three (3) math credits in grades 9-12.*

To be promoted from Grade:	Minimum credits
9 to 10	6.0
10 to 11	12.25
11 to 12	18.50
Graduation	24.60 (25.60)*

*** These requirements are for the class of 2013 and beyond.**

Honor Roll Requirements

Distinguished Honors 3.85 GPA or better with no grade below 75%

Honors 3.25 GPA or better with no grade below 75%

Criteria for Becoming a Member of National Honor Society

1. Student must have a cumulative GPA of 3.40 at the end of the tenth or eleventh grade.
2. Student must have attained honor roll status for the three previous marking periods.
3. Student must be involved in three activities including at least one school activity.
4. Student must demonstrate leadership skills and good character.
5. A list of academically eligible students is given to the faculty, who nominate from this list. Student must receive seven faculty votes.
6. Student completes application.
7. Faculty committee reviews applications and gives final approval for induction into honor society.

Grade Requirements

Students are required to achieve a passing grade in each of the required planned instruction areas listed above. The district's current grade structure is listed below.

Brandywine Heights High School Grading Policy

Percent	GPA	Percent	GPA	Percent	GPA
100	4.33	89	3.48	78	2.62
99	4.25	88	3.40	77	2.54
98	4.17	87	3.32	76	2.47
97	4.10	86	3.24	75	2.39
96	4.02	85	3.17	74	2.31
95	3.94	84	3.09	73	2.23
94	3.86	83	3.01	72	2.16
93	3.79	82	2.93	71	2.08
92	3.71	81	2.85	70	2.00
91	3.63	80	2.78	>70	0.0
90	3.55	79	2.70		

Advanced Placement (AP)

Advanced Placement is a program of college-level courses and exams that gives motivated students the opportunity to get ahead by earning credit, advanced placement, or both for college while they are still in high school. The College Board provides high schools with the course descriptions and Advanced Placement Examinations in those subjects. BHAHS currently offers eight AP courses and administers the AP exams on the nationally scheduled dates each May.

Visit www.collegeboard.com/apstudents and learn more about the program.

Look for Advanced Placement course descriptions in this course catalog by department for the following eight courses:

English (Literature and Composition) – 12th Grade
World History
United States History
Calculus AB, BC
Government and Politics
Art History
Music Theory

Or look on-line at www.bhasd.org.

Culminating Project

Students must complete a project in one or more areas of concentrated study during their junior or senior year of high school. The purpose of the project is to give students the opportunity to apply, analyze, synthesize, and evaluate knowledge, and to demonstrate that knowledge in a project. This project shall be completed under the direction of an advisor selected by the student and shall incorporate the following guidelines:

- Students may choose their project theme and shall be guided throughout the effort by an advisor.
- The student must demonstrate, through the project, the ability to apply, analyze, synthesize and evaluate information.
- Coaching on the project is allowed outside and inside the school, but approval of that coaching must be given by the school advisor and an acknowledgement and a description of that assistance must be explained during the presentation of the project.
- The project presentation will require a performance to an appropriate audience as approved by the steering committee.
- The performance shall be interactive in that the audience may ask questions of the student.
- The advisor shall determine mastery of the project after consultation with the audience and use of a district approved rubric to determine proficiency.
- If a project is found to be “not yet satisfactory” at the evaluation, the student is expected to act on the comments and recommendations provided by the evaluation committee and present the project for a second evaluation. Failure to do so will result in the student not graduating.

II. SCHEDULE CHANGES

Students are encouraged to take the course selection process seriously. The adding and dropping of courses after the class has begun for the semester is discouraged and is subject to the following guidelines:

- a) No one may drop a course without penalty, for any reason, after the first week of class unless approved by the administration.
- b) If a student desires to drop a course, a written request must be submitted to the counseling office by the parent. The request must contain the following information:
 - 1) Student name.
 - 2) Course to be dropped.
 - 3) Course to be added.
 - 4) Rationale for the addition or deletion. There must contain in the rationale a statement relating the change to a positive impact on the child’s program and the change must have a curricular purpose.
- c) Students who drop courses without administrative approval will receive a WF.
- d) Administration reserves the right to deny changes to student schedules. Changes in schedule will not be made to accommodate student’s personal wishes.
- e) Any student / parent initiated schedule changes after the first week will be subject to a \$15.00 per change fee.
- f) Every student is required to maintain a minimum of 35 class periods per week.

III. Students who take courses for credit at an off site location must pass that course’s final exam with an 80%.

IV. DUAL ENROLLMENT

Brandywine Heights High School, in cooperation with Reading Area Community College and Lehigh Carbon Community College, offers students the opportunity to obtain college credit for courses taken at the high school. If one of our courses is deemed to be equivalent to a course offered at RACC or LCCC, the course is included in the Dual Enrollment Program. Students enroll at RACC or LCCC and register and pay tuition for the course(s) for which they wish to receive credit. Upon satisfactory completion of the course to RACC or LCCC standards, the student not only receives high school graduation credit, but also college credit from RACC or LCCC for their equivalent course. In most situations, the course can be transferred to the college a student attends after high school graduation. Students enrolled in an approved course will be notified of the opportunity for dual enrollment. Approved courses include Honors English 11, AP English 12, AP Calculus AB & BC, Computer Applications I, Computer Applications II, Spanish III, Spanish IV, German III, German IV, French III, French IV, Business Economics I & II (both courses must be taken in the same year), AP US History, AP Government & Politics Accounting II, Telecommunications II and Honors Biology.

V. DIPLOMA STATEMENT

A diploma from Brandywine Heights High School signifies that a student has successfully fulfilled all graduation requirements. It does not in itself insure admission to college or other institutions of advanced study. A high school transcript is an official statement of academic achievements.

VI. GIFTED POLICY

Gifted courses taken in 11th and/or 12th grade are weighted.

VII. NCAA GUIDELINES

During their senior year students may apply to become NCAA qualifiers. Students who are not qualifiers will not be eligible to compete in Division I and II athletics at the college level. Students become qualifiers by taking the combination of courses listed below (*Please note that all courses must be approved NCAA courses*). In addition, students must meet the established Grade Point Average and ACT/SAT criteria.

Division I: 4 years of English
3 years of Math (at the level of Algebra I or above)
2 years of Natural or Physical Science (including one lab)
1 year of additional courses in English, Math, or Science
2 years of Social Science
4 years of additional academic courses in foreign language, or any of the above areas

Minimum qualifying GPA of 2.0 with 1010 SAT or 86 ACT scores (SAT and ACT score requirements go down as GPA goes up, for example a 2.5 GPA needs an 820 SAT or 68 ACT).

Division II:

3 years of English
2 years of Mathematics
2 years of Natural or Physical Science (including one lab)
2 years additional courses in English, Math, and Science
2 years of Social Science
3 years of additional academic courses

Minimum qualifying GPA of 2.0 with 820 SAT or 68 ACT

VIII. ACTIVITY CLUBS AND ADVISORS

Art Club – Sue Oswald, Michael Daddario, Shara Sweitzer

Band - Jason VanVoorhis

Chorus – Rebecca Rhodes

Class Of 2010 – Wendy Pristash & MaryAnn Lambert

Class Of 2011 – Jennifer Johnson & Kelly Shaw

Class Of 2012 – Brian Goldman & Kirsten Ferry

Class Of 2013 – Susan Thomas & Gail Egan

Eco-Action – Mike Babb

French Club – Gail Egan

FBLA – Dave Herring, Wendy Pristash, Michelle Moore

German Club – Susan Thomas

German Honor Society – Susan Thomas

Juggling Club – Jerry Battenfield

Key Club – Kirsten Ferry

National Honor Society – Michele Moore and Susan Thomas

Newspaper – Kirsten Ferry

Spanish – Cindy Gabel

Student Council – Kelly Shaw

Telecommunications – Brian Goldman

Tracer (Yearbook) – Christine Santoro

Weight Lifting Club – Greg Dewald & Kirsten Ferry

SPORTS

Baseball

Basketball (Boys & Girls)

Cheerleading

Field Hockey

Golf

Soccer (Boys & Girls)

Softball

Tennis (Boys & Girls)

Volleyball (Boys & Girls)

Wrestling

SUGGESTED COURSE SELECTIONS

The high school offers four Career Pathways or suggested courses of study. Within each of the Pathways there are two options: College Preparatory and Technical Academic. Students are asked to identify the Career Pathway and option which most closely matches their potential career choice and then follow the suggested course selections. Although there are exceptions, the courses listed for a Pathway are recommended as the best selections for the careers within that Pathway. Because students may be considering potential careers from more than one Pathway, or are uncertain of their career choice in general, the school counselors are available to meet with students and parents to assist them in making the most appropriate course selections.

A brief description of some of the careers included in the Career Pathways follows:

Arts and Humanities - Students choosing this Pathway would be interested in such fields as Communications, the Fine & Performing Arts, the Humanities, Psychology, the Social Sciences, Public Service, Journalism or Advertising.

Business Technology - Students pursuing this Pathway would enter such areas as Business Administration & Management, Accounting, Computer Science, Finance, Marketing, Distribution & Transportation, Real Estate, Economics, Public Relations, Office Technology, or Hospitality/Recreation.

Engineering/Industrial - Students entering this Pathway would be considering such fields as Architecture, Computer Science, Engineering & Industrial Technology, Transportation, Construction, Manufacturing, Electronics or Mechanics

Health/Science & Human Services - Students involved with this Pathway would be interested in such fields as Agriculture & Natural Resources, Biology, Health Care, Physical Science, the Environment, Marine Science, Protective & Personal Services, Hospitality & Recreation or Consumer Sciences.

The suggested course selections on the follow pages list the required and strongly recommended courses for two options for all of the Career Pathways: College Preparatory or Technical Academic. You will then find a list of recommended electives and the related Berks Career & Technology Center courses for each of the four Career Pathways. Students are required to discuss their course selections with their parents and counselor before making their final choices.

Students are required to follow the sequence relative to prerequisites when selecting courses. Failure to do so may result in placement in the pre-required class.

Arts & Humanities Career Pathway

College Preparatory Option

Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Algebra I or Geometry or Algebra II	Geometry or Algebra II or Trigonometry or Honors Trigonometry	Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Biology I or Honors Biology	Advanced Physical Science or Chemistry I or Anatomy & Physiology	Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Newspaper Yearbook Art I Music Theory I Music Listening & Literature Band Concert Choir Choraliers Vocal Jazz Ensemble Wood I Introduction to Family & Consumer Sciences Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing	Creative Writing Telecommunications I Art II Graphics Arts I & II Housing and Interior Design Advanced Foods & Nutrition Defensive Driving Computer Applications I & II Communication Presentation Design Business Technology I College Board Preparation Mathematics Accounting I Wood II	Spanish III or German III or French III Advanced Creative Writing Telecommunications II Shakespeare AP Art History Art III Drawing & Illustration Black & White Photography Graphics Arts III AP Music Theory Child Care & Development Independent Living Psychology Sociology History of Women Business Technology II Accounting II Business Math II Business & Consumer Law Business Economics I & II Recordkeeping	Spanish IV or German IV or French V Telecommunications III Art IV Accounting III Career Internship

Berks Career & Technology Center Courses (Related to this pathway)

Cosmetology	Culinary Arts	Graphic Imaging Technology	Horticulture
Painting & Decorating	Photo Imaging Technology	Visual Imaging & Design Technology	

Possible Career Choices:

Actor/Entertainer	Anthropologist	Artist	Broadcast Analyst/Newscaster	Clergy
College Faculty	Composer	Curator	Dancer/Choreographer	Director
Graphic Designer	Illustrator	Interior Designer	Journalist	Judge/Magistrate
Lawyer	Librarian	Musician	Photographer	Political Scientist
Public Administrator	Public Relations	Recreation Therapist	Social Worker	Translator
Teacher (Art, Dance, English, History, Music, World Languages)			Urban/ Regional Planner	
Writer				

Arts & Humanities Career Pathway Technical Academic Option

Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Integrated Math I or Algebra I or Geometry or Algebra II	Integrated Math II or Geometry or Algebra II or Trigonometry or Honors Trigonometry	Integrated Math III or Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Applied Biology or Biology I or Honors Biology	Advanced General Science or Advanced Physical Science or Chemistry I or Anatomy & Physiology	Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Newspaper Yearbook Art I Music Theory I Music Listening & Literature Band Concert Choir Choraliers Vocal Jazz Ensemble Wood I Introduction to Family & Consumer Sciences Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing	Creative Writing Telecommunications I Art II Graphics Arts I & II Housing and Interior Design Advanced Foods & Nutrition Defensive Driving Computer Applications I & II Communication & Presentation Design Business Technology I College Board Preparation Mathematics Accounting I Wood II	Spanish III or German III or French III Advanced Creative Writing Telecommunications II Shakespeare AP Art History Art III Drawing & Illustration Black & White Photography Graphics Arts III AP Music Theory Child Care & Development Independent Living Psychology Sociology History of Women Business Technology II Accounting II Business Math II Business & Consumer Law Business Economics I & II Recordkeeping	Spanish IV or German IV or French IV Telecommunications III Art IV Accounting III Career Internship

Berks Career & Technology Center Courses (Related to this pathway)

Cosmetology Culinary Arts Graphic Imaging Technology Horticulture
Painting & Decorating Photo Imaging Technology Visual Imaging & Design Technology

Possible Career Choices:

Actor/Entertainer	Anthropologist	Artist	Broadcast Analyst/Newscaster	Clergy
College Faculty	Composer	Curator	Dancer/Choreographer	Director
Graphic Designer	Illustrator	Interior Designer	Journalist	Judge/Magistrate
Lawyer	Librarian	Musician	Photographer	Political Scientist
Public Administrator	Public Relations	Recreation Therapist	Social Worker	Translator
Teacher (Art, Dance, English, History, Music, World Languages)			Urban/ Regional Planner	Writer

Business Career Pathway

College Preparatory Option

Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Algebra I or Geometry or Algebra II	Geometry or Algebra II or Trigonometry or Honors Trigonometry	Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Biology I or Honors Biology	Advanced Physical Science or Chemistry I or Anatomy & Physiology	Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Introduction to Business Computer Literacy Word Processing I & II Business Math I Exploring Engineering Introduction to Engineering Design Art I Music Listening & Literature Band Concert Choir Wood I Introduction to Family & Consumer Sciences Career Shadowing	Computer Applications I & II Communication & Presentation Design Word III Office Technology I Telecommunications I Graphics Arts I & II A+ Introduction to Programming Principles of Engineering Defensive Driving College Board Preparation Mathematics	Spanish III or German III or French III Accounting II Business Technology II Business Math II Business & Consumer Law Business Economics I & II Recordkeeping Telecommunications II Psychology Sociology Digital Electronics	Spanish IV or German IV or French V Accounting III Civil Engineering and Architecture Telecommunications III Career Internship

Berks Career & Technology Center Courses (Related to this pathway)

Information Technology: Applications
Information Technology: Programming

Information Technology: Networking

Possible Career Choices:

Accountant	Actuary	Administrative Assistant	Auditor
Budget Analyst	Claims Officer	Compliance Officer	Computer Network Engineer
Customer Service Representative	E-Commerce Analyst	Economist	Employment Interviewer
Financial Analyst	Financial Services Representative	General Manager	Insurance Adjuster
Insurance Agent/Broker	Management Analyst	Marketing/Advertise Man.	Market Research Analyst
Operations Research Analyst	Personnel Manager	Public Relations Specialist	Programmer/Application Developer
Real Estate Agent	Software Engineer	Statistician	Underwriter
Systems Administrator	Systems Analyst	Training Supervisor	
Teacher (Business, Information Technology)			

Business Career Pathway Technical Academic Option

Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Integrated Math I or Algebra I or Geometry or Algebra II	Integrated Math II or Geometry or Algebra II or Trigonometry or Honors Trigonometry	Integrated Math III or Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Applied Biology or Biology I or Honors Biology	Advanced General Science or Advanced Physical Science or Chemistry I or Anatomy & Physiology	Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Introduction to Business Computer Literacy Word Processing I & II Business Math I Exploring Engineering Introduction to Engineering Design Art I Music Listening & Literature Band Concert Choir Wood I Introduction to Family & Consumer Sciences Career Shadowing	Computer Applications I & II Communication & Presentation Design Word III Business Technology I Telecommunications I Graphics Arts I & II A+ Introduction to Programming Principles of Engineering Defensive Driving College Board Preparation Mathematics	Spanish III or German III or French III Accounting II Business Technology II Business Math II Business & Consumer Law Business Economics I & II Recordkeeping Telecommunications II Psychology Sociology Digital Electronics	Spanish IV or German IV or French IV Accounting III Civil Engineering and Architecture Telecommunications III Career Internship

Berks Career & Technology Center Courses (Related to this pathway)

Information Technology: Applications
Information Technology: Programming

Information Technology: Networking

Possible Career Choices:

Administrative Secretary
Brokerage Clerk
Computer Operator
Counter/Rental Clerk
Employment Interviewer
Internet Design Specialist
Paralegal
Secretary: Executive, Legal, Medical

Advertising Sales Agent
Cashier
Computer Support Specialist
Credit Authorizer/Clerk
File Clerk
Material Handler
Payroll Clerk
Service Manager
Web Developer

Bill /Account Collector
Claims Examiner
Computer Programmer
Database Technician
Foreman
Microcomputer Specialist
Receptionist
Stock Clerk
Word Processor

Bookkeeping Clerk
Collections Assistant
Cost Estimator
Data Entry Operator
Insurance Appraiser
Network Administrator
Retail Salesperson
Teller

Engineering & Industrial Career Pathway College Preparatory Option

Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Algebra I or Geometry or Algebra II	Geometry or Algebra II or Trigonometry or Honors Trigonometry	Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB/BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Biology I or Honors Biology	Advanced General Science or Advanced Physical Science or Chemistry I or Anatomy & Physiology	Advanced Physical Science or Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Exploring Engineering Introduction to Engineering Design Wood I Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing Art I Band Concert Choir Music Listening & Literature Introduction to Family & Consumer Sciences	Principles of Engineering A+ Introduction to Programming Graphics Arts I & II Defensive Driving Computer Applications I & II Communication & Presentation Design Word III College Board Preparation Mathematics Wood II	Spanish III or German III or French III Digital Electronics Intermediate Programming Graphics Arts III Psychology Sociology	Spanish IV or German IV or French IV Career Internship Civil Engineering and Architecture

Berks Career & Technology Center Courses (Related to this pathway)

Automotive Collision Technology	Automotive Technology	Building Construction Occupations
Carpentry	Cabinetmaking	Diesel Technology
Drafting Design Technology	Electrical Occupations	Electronic Technology
Graphic Imaging Technology	Heavy Equipment Technology	Heating, Ventilation & Air Conditioning
Horticulture	Machinist-Toolmaker	Masonry
Painting & Decorating	Plumbing & Heating	Recreational & Power Equipment Technology
Robotics & Automation Technology	Welding Technology	

Possible Career Choices:

Aerospace Engineer	Air Traffic Controller	Architect	Astronomer
Chemical Engineer	Chemist	Civil Engineer	Compliance Officer
Computer Engineer	Computer Systems Analyst	Construction Manager	Database Administrator
Construction/Building Inspector	Construction Superintendent	Electrical/Electronics Engineer	Geologist
Industrial Engineer	Industrial Production Manager	Landscape Architect	Materials Engineer
Mechanical Engineer	Mining Engineer	Nuclear Engineer	Physicist
Pilot/Flight Engineer	Purchasing Agent	Safety Engineer	Ship Captain
Sales/Marketing Supervisor	Surveyor	Systems Analyst	Technical Writer
Teacher (Technology, Computer Science, Mathematics, Career/Technical Education)			

Engineering & Industrial Career Pathway Technical Academic Option

Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Integrated Math I or Algebra I or Geometry or Algebra II	Integrated Math II or Algebra I or Geometry or Algebra II or Trigonometry or Honors Trigonometry	Integrated Math III or Geometry or Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP US Government & Politics
Science	General Science	Applied Biology or Biology I or Honors Biology	Advanced General Science or Advanced Physical Science or Chemistry I or Anatomy & Physiology	Advanced Physical Science or Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Health I & Physical Fitness 9	Health II & Physical Fitness 10 Career Education		
Electives	Spanish I or German I or French I Exploring Engineering Introduction to Engineering Design Wood I Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing Art I Band Concert Choir Music Listening & Literature Introduction to Family & Consumer Sciences	Spanish II or German II or French II Principles of Engineering A+ Introduction to Programming Graphics Arts I & II Defensive Driving Computer Applications I & II Communication Presentation Design College Board Preparation Mathematics Wood II	Spanish III or German III or French III Digital Electronics Intermediate Programming Graphics Arts III Psychology Sociology	Spanish IV or German IV or French IV Career Internship Civil Engineering and Architecture

Berks Career & Technology Center Courses (Related to this pathway)

Automotive Collision Technology
Carpentry
Drafting Design Technology
Graphic Imaging Technology
Horticulture
Painting & Decorating
Robotics & Automation Technology

Automotive Technology
Cabinetmaking
Electrical Occupations
Heavy Equipment Technology
Machinist-Toolmaker
Plumbing & Heating
Welding Technology

Building Construction Occupations
Diesel Technology
Electronic Technology
Heating, Ventilation & Air Conditioning
Masonry
Recreational & Power Equipment Technology

Possible Career Choices:

Air Traffic Controller
Biomedical Equipment Technician
Cost Estimator
Electrical Lineman
Heavy Equipment Technician
Master Truck Technician
Technician

Aircraft Engine Technician
Carpenter
Diesel Technician
Engineering Technician
Landscape Contactor
Painter/Paperhanger
Technical Salesperson

Auto Body Repair Technician
Computer Repair Technician
Electro-Mechanical Technician
HVAC Technician
Locksmith
Plumber/Pipe fitter
Upholsterer

Cabinetmaker
Concrete Finisher
Electronics Inspector
Jeweler/Silversmith
Machinist
Small Engine
Welder

Health Science & Human Services Career Pathway College Preparatory Option

Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Algebra I or Geometry or Algebra II	Geometry or Algebra II or Trigonometry or Honors Trigonometry	Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Biology I or Honors Biology	Advanced Physical Science or Chemistry I or Anatomy & Physiology	Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Spanish I or German I or French I Health I & Physical Fitness 9	Spanish II or German II or French II Health II & Physical Fitness 10 Career Education		
Electives	Art I Band Concert Choir Music Listening & Literature Introduction to Family & Consumer Sciences Exploring Engineering Introduction to Engineering Design Wood I Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing	Principles of Engineering A+ Introduction to Programming Art II Graphics Arts I & II Athletic Training I Advanced Foods & Nutrition Housing and Interior Design Defensive Driving Computer Applications I & II Communication Presentation Design Word III College Board Preparation Mathematics Wood II	Spanish III or German III or French III Digital Electronics Intermediate Programming Art III Computer Graphics III Athletic Training II Child Care & Development Independent Living Psychology Sociology Business Math II	Spanish IV or German IV or French IV Art IV Career Internship Civil Engineering and Architecture

Berks Career & Technology Center Courses (Related to this pathway)

Cosmetology	Culinary Arts	Dental Occupations	Health Occupations
Health Related Technology	Medical Health Professions	Horticulture	
Occupational Child Development	Protective Services		

Possible Career Choices:

Agricultural Scientist	Audiologist	Biologist	Chiropractor
Conservationist	Corrective Therapist	Dentist	Dietician
Forester	Healthcare Administrator	Medical Technologist	Meteorologist
Nuclear Medicine Technologist	Nutritionist	Occupational Therapist	Optometrist
Pharmacist	Physical Therapist	Physician	Physician's Assistant
Podiatrist	Police Detective	Psychiatrist	Psychologist
Radiologist	Registered Nurse (BSN)	Residential Counselor	Respiratory Therapist
School Administrator	School Counselor	Social Worker	Speech Pathologist
Surgeon	Veterinarian		

Teacher (Health, Science, Physical Education, Elementary, Early Childhood Education, Family/Consumer Science)

Health Science & Human Services Career Pathway

Technical Academic Option

Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	English 12 or AP English 12
Mathematics	Integrated Math I or Algebra I or Geometry or Algebra II	Integrated Math II or Geometry or Algebra II or Trigonometry or Honors Trigonometry	Integrated Math III or Algebra II or Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus AB	Trigonometry or Honors Trigonometry or Pre-Calculus or AP Calculus (AB or BC) or Introduction to Statistics & Probability
Social Studies	History I	History II or AP US History	History III or AP World History	Government & Economics or AP Government & Politics
Science	General Science	Applied Biology or Biology I or Honors Biology	Advanced General Science or Advanced Physical Science or Chemistry I or Anatomy & Physiology	Advanced Physical Science or Chemistry I or Physics or Anatomy & Physiology or Chemistry II
Other Requirements	Health I & Physical Fitness 9	Health II & Physical Fitness 10 Career Education		
Electives	Spanish I or German I or French I Art I Band Concert Choir Music Listening & Literature Introduction to Family & Consumer Sciences Exploring Engineering Introduction to Engineering Design Wood I Introduction to Business Computer Literacy Word Processing I & II Business Math I Career Shadowing	Spanish II or German II or French II Principles of Engineering A+ Introduction to Programming Art II Graphics Arts I & II Athletic Training I Advanced Foods & Nutrition Housing and Interior Design Defensive Driving Computer Applications I & II Communication Presentation Design Word III College Board Preparation Mathematics Wood II	Spanish III or German III or French III Digital Electronics Intermediate Programming Art III Graphics Arts III Athletic Training II Child Care & Development Independent Living Psychology Sociology Business Math II	Spanish IV or German IV or French IV Art IV Career Internship Civil Engineering and Architecture

Berks Career & Technology Center Courses (Related to this pathway)

Cosmetology	Culinary Arts	Dental Occupations	Health Occupations
Health Related Technology	Medical Health Professions	Horticulture	
Occupational Child Development	Protective Services		

Possible Career Choices:

Animal Caretaker	Biological Technician	Bakery/Pastry Chef	Certified Nursing Assistant
Child Care Worker	Correction Officer	Cosmetologist	Custodian
Custom Tailor/Seamstress	Dental Assistant	Dental Hygienist	Emergency Medical Technician
Executive Chef	Farmer	Fish/Game Warden	Firefighter
Flight Attendant	Floral designer	Forest/ Conservation Worker	Greenhouse Manager
Health Unit Coordinator	Home Healthcare Aide	Hotel/Motel Desk Clerk	Landscape Gardener
Licensed Practical Nurse	Manicurist	Medical Assistant	Medical and Laboratory Technician
Occupational Therapy Assistant	Police Officer	Professional Nanny	Psychiatric Aide
Radiologist (X-Ray) Technician	Registered Nurse (Associate)	Security Personnel	Soil, Turf, and Range Manager
Surgical Technician	Teaching Assistant	Travel Agent	

BERKS CAREER & TECHNOLOGY CENTER

www.berkscareer.com

The Berks Career and Technology Center (BCTC) offers programs in 35 different career areas to students from 16 of the area school districts. Two campuses serve students in Berks County. The East campus is located in Oley and the West campus is located in Leesport. Students choosing to enroll in a BCTC program would attend the high school the first five class periods for their academic classes and would then attend BCTC's afternoon session for their technical program. Programs are designed to be three years in length, beginning in the 10th grade, however 11th and 12th grade students may also begin a program and we would encourage them to do so if this would assist them in reaching their career or education goals. If necessary, a student can then complete the program as an adult education student.

In addition to the academic component of each course of study our laboratories are equipped with computers, industrial machinery, and other state-of-the-art equipment provides hands-on training for students. All curriculums are competency based, allowing students to proceed at a rate that is best for them and tailored to meet their own career objectives.

There are many opportunities available for students enrolled in a BCTC program. All programs prepare students for immediate employment or higher education. Senior students who demonstrate a high level of competency in their program can participate in a supervised work-based learning experience. In addition, articulation agreements with the following post-secondary schools provide advanced credits or advanced placement: Antonelli Institute of Art and Photography, Automotive Training Center, Baran Institute of Technology, Berks Technical Institute, Central Pennsylvania College, Information Computer Systems Institute, Johnson and Wales University, Lehigh Carbon Community College, Lehigh Valley College, Lincoln Technical Institute, Montgomery County Community College, Nashville Auto Diesel College, Northampton Community College, Ohio Technical College, Pennsylvania College of Technology, Pennsylvania College of Art & Design, Reading Area Community College, Schuylkill Institute of Business & Technology, Thaddeus Stevens College of Technology, Thompson Institute, Universal Technical Institute, University of Northwestern Ohio, and Welder Training and Technical Institute. Currently, 33 BCTC programs have articulation agreements to offer students advanced credit at the post-secondary level to pursue a certificate, associate, or baccalaureate degree.

All the students attending the Berks Career & Technology Center are encouraged to enroll in the highest level courses in English, mathematics, social studies and science they are capable of completing. This is especially important if a student wishes to enter a post secondary education program. The School Counselors will work with students to make schedule adjustments to ensure that students have the necessary courses to apply to the post secondary institutions of their choice.

The programs currently offered by the Berks Career & Technology Center are:

Construction Cluster

Building Construction Occupations (E)
Cabinetmaking (E)
Carpentry
*Electrical Occupations
*Heating, Ventilation & Air Conditioning (W)
Masonry (E)
Painting & Decorating (W)
Plumbing & Heating (E)

Information Technology Cluster

*Applications (W)
**Networking (E)
**Programming (W)

Advanced Materials & Diversified Manufacturing Cluster

*Precision Machining Technology (W)
**Computerized Machining Technology (W)
Welding Technology (W)

Communications Cluster

Communications Media Technology (W)
Graphic Imaging Technology (W)
Photo Imaging Technology (W)
Visual Imaging & Design Technology (W)

Services Cluster

Cosmetology
Culinary Arts
Horticulture (E)
Occupational Child Development
Protective Services
Service Occupations (E)

Technical Cluster

**Drafting Design Technology (W)
**Electronic Technology (W)
**Robotics & Automated Technology (W)

(E) – Program is only offered at the East Campus

(W) – Program is only offered at the West Campus

Programs marked (**) carry a prerequisite academic math of a minimum of Algebra 1 upon enrollment.

Programs marked (*) carry a recommendation of a minimum of Algebra 1 upon enrollment.

Application Process

Students applying to the BCTC will obtain the application materials from the Counseling Office. In order to receive maximum consideration for admission, students will submit their application in late November and will be notified of their acceptance at the beginning of February. All applications are sent to BCTC for review and students are chosen for admission to programs on a countywide basis. Each student's application is reviewed based on these criteria:

Student Interest – The application is reviewed for thoughtfulness, completeness of answers, neatness, a student's experiences and evidence of career planning.

Teacher Evaluation (2) – Students may choose the teachers who complete the evaluations and should seek the individuals who will give them the highest rankings.

Counselor Recommendation

School Citizenship – School behavior and attitudes are considered.

Attendance – Emphasis is placed on good attendance by BCTC. The total number of absences for the last three years is reviewed.

Grades – A student's grades for the last three years are considered.

Aptitude – Does the student have the potential to be successful in the field? Differential Aptitude Test and PSSA scores from 8th grade are taken into account.

Health – While not restricting a student's program selection, health concerns which may affect a student's ability to be successful in a program are noted.

Health Care Cluster

*Dental Occupations (E)
*Health Occupations
**Health-Related Technology (E)
Medical Health Professions (12th Grade Only)

Transportation Cluster

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

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*Weighted Course

Semester = ½ year

ENGLISH

Title: 9th Grade English

Grades: 9 – Credit: English

Prerequisite: 8th Grade English

Course #010

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: English 9 is a required course for all freshmen. Strong emphasis is placed on composition and vocabulary skills. A book review format is taught and utilized for the rest of the students' high school career. Three book reviews are written and/or presented during the academic year. Bibliography preparation is taught in conjunction with academic work in other subjects. Research reports and speaking skills are reviewed and strengthened. Basic grammar concepts are reviewed and new ones are implemented. A Shakespearean play is studied and discussed.

Title: Honors English 9

Grades: 9 – Credit: English

Prerequisite: 8th Grade English

Course #012

5 periods per week

1 Credit / Year

Candidates are determined by their current English teacher's recommendation. Selected students should show strong writing and critical thinking skills, strong independent work habits and an interest in the subject matter.

COURSE DESCRIPTION: Honors English 9 is designed for freshmen who have excelled in areas of writing, critical thinking and literary analysis. This course will examine a wide range of literature by genre and theme. Students will develop and hone skills in the areas of narrative and descriptive writing, as well as poetry and literary analysis. Emphasis will be placed on literary analysis, creative writing and developing essential composition skills. Grammar, public speaking and vocabulary study will be incorporated as well. All students will be required to complete summer reading and related writing assignments, which will be due on the first day of the school year.

Title: 10th Grade English

Grades: 10 – Credit: English

Prerequisite: 9th Grade English

Course #015

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: English 10 is a required course for all sophomores. The course emphasizes composition and world literature. World literature studies include short stories, essays, poetry, drama, and novels of prominent writers. Students will analyze literature for meaning and style. Composition instruction will emphasize mastering basic skills, writing analytical and narrative pieces, and learning editing methods. Process writing will be used for all composition work. Speaking skills will be reviewed and practiced through formal presentations, reports and drama. Finally, vocabulary enrichment, basic grammar concepts, and usage rules will be covered through exercises and student writings.

Title: **Honors English 10**
Grades: 10 – Credit: English
Prerequisite: 9th Grade English

Course #017
5 Periods per week
1 Credit / Year

Candidates are determined by their current English teacher's recommendation. Considered students must show strong writing and critical thinking skills, strong independent work habits and an interest in the subject matter.

COURSE DESCRIPTION: Honors English 10, which is taken in lieu of regular English 10, is designed for college bound sophomores who have excelled in areas of writing, critical thinking, and literary analysis. This course will examine a variety of world literature by genre and theme. Students will develop and hone skills in the areas of expository composition, creative writing, and literary analysis. Emphasis will be placed on literary analysis and polishing essential composition skills. Grammar, public speaking and vocabulary will be studied as well. All students will be required to complete summer reading and related writing assignments, which will be due on the first day of the school year.

Title: **11th Grade English**
Grades: 11 – Credit: English
Prerequisite: 10th Grade English

Course #020
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: English 11 is a required course for all juniors. Major emphasis in the course is placed on a study of American literature and composition. The literary studies concentrate on the historic, romantic and modern periods through a variety of genre including three novels and two plays. Composition studies center on expository themes and research writing with additional narrative and descriptive pieces spread throughout. Speech activities are generally outgrowths of literary studies, and vocabulary study is an integral part of the program.

Title: **Honors English 11***
Grades: 11 – Credit: English (RACC Dual Enrollment)
Prerequisite: Completion of written examination at the end of sophomore year.

Course #025
5 Periods per week
1 Credit /Year

Candidates for examination are determined through grade point average and teacher recommendation forms completed by student. Approved students must read and complete written reports on one play and two novels over the summer to be submitted upon return to school the following year.

COURSE DESCRIPTION: Honors English 11, which is taken in lieu of regular English 11, is designed for college-bound juniors who desire to be better prepared for AP English taken in their senior year. By completing both the junior and senior level courses, students will have an excellent background to assist them in sitting for the Advanced Placement examination at the end of their senior year. The course's major components are composition and literary study. The literary components include the study of American literature plus Shakespeare. Composition assignments focus on expository themes and research writing with additional narrative and descriptive pieces spread throughout. Speech activities are generally outgrowths of literary studies; vocabulary study is an integral part of the program, and summer reading will be required. Computer word processing instruction and experience in utilizing personal computers to produce finished copy for written assignments will be offered. Students may be required to purchase one or more of the texts for this course.

Title: **12th Grade English**
Grades: 12 – Credit: English
Prerequisite: 11th Grade English

Course #030
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: English 12 is a required course for all seniors. The major area of concentration in this course is British literature with emphasis on Anglo-Saxon, Medieval, Elizabethan and Seventeenth Century Literature. Students will not only read and discuss the writings from these important periods but will also study the history and culture of each era as well as the characteristics of each genre. In addition to literature, the course will also include work in composition and speech. Composition study will emphasize expository theme writing, research writing, and creative writing; speaking skills will be developed through literature-related individual and group presentations. Finally, vocabulary study will be a regular part of the academic program, thus rounding out a course of study, which will provide a solid background for the soon-to-be college freshman.

Title: **12th Grade AP English***
Grades: 12 – Credit: English (RACC Dual Enrollment)
Prerequisite: Must have successfully completed
Honors English 11

Course #035
5 Periods per week
1 Credit / Year

Students must read and complete written reports on three assigned works over the summer to be submitted upon return to school the following year. Students who fail to fulfill the requirements will fail the first quarter. (Students will be tested on this material) Students are responsible for taking the AP exam at district expense.

COURSE DESCRIPTION: Advanced Placement English is a course offered to college-bound seniors in lieu of the standard English 12 course. It is also designed to prepare students more fully to meet the requirements of general introductory courses in speaking, writing and literature which are mandatory for freshmen and sophomores at most colleges. The course's major components are composition and British literature. British literature is presented with emphasis on Anglo-Saxon, medieval, Elizabethan, and seventeenth century literature. In addition, selections of world literature to be examined will include Sophocles' *Antigone* and Hesse's *Siddhartha*. Students will not only read and discuss these important writings, but they will also study the history and the culture of the era during which the work was produced and the genre which the work exemplified. The course will include work in speech as well. Composition study will focus on expository theme writing, research writing, and creative writing. Speaking skills will be developed through literature-related individual and group presentations. Finally, vocabulary study will be a regular part of the course.

Title: **Creative Writing**
Grades: 10, 11 & 12 – Credit: Elective
Prerequisite: None

Course #045
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: This writing-intensive course will focus on the study and writing of both poetry and fiction. Emphasis in this course will be placed on student generated writing. This course uses interactive and inventive techniques to teach students not only how to write with imagination and style, but, more importantly, how to enjoy the writing process. Students will be expected to create portfolios of their original work, which will be shared regularly in group readings.

Title: **Advanced Creative Writing**
Grades: 11 & 12 – Credit: Elective
Prerequisite: Successful completion of Creative Writing

Course #047
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: This course is an accelerated, writing intensive course taken only by students who possess a genuine interest in creative writing. Students must not only be highly motivated, but they must also have the self-discipline to work independently in a class of peers. Throughout the semester, students will read published works from various genres; moreover, they will analyze the structure of these creative pieces in original works. The course will be divided into three main categories: fiction, poetry, and nonfiction.

Title: **Shakespeare**
Grades: 11 & 12 – Credit: Elective
Prerequisite: None

Course #050
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Shakespeare is an elective course for eleventh and twelfth graders' enjoyment as well as instruction. The emphasis will be on bringing several works of William Shakespeare "to life" and out of the script. In addition to the study of Shakespeare's literature, the students will study aspects of Elizabethan life, stage combat and the basic requirements of performing monologues and scenes effectively. In addition students will have one outside reading and one field trip may be planned in order for students to see a professional stage presentation.

Title: **Yearbook**
Grades: 9, 10, 11 & 12 – Credit: Elective
Prerequisite: Completion of required writing sample
and application to be reviewed by advisor

Course #055
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Yearbook is an elective course offered to all students. The motto of this course is "LEARN by DOING". Basic skills in yearbook production – research, reporting, writing, proofreading, photography, page layout, Desktop publishing, advertising, and business management are taught while students publish the annual yearbook, *TRACER*. High journalistic standards are maintained while students develop an understanding of, and an appreciation for, the true significance of yearbook journalism. Independence and productivity are required of all staff members.

Title: **Newspaper**
Grades: 9, 10, 11 & 12 – Credit: Elective
Prerequisite: Submission of required writing
assignment to be reviewed by advisor

Course #060
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Newspaper is an elective course offered to all students. Fundamentals of newspaper writing, headline writing, photojournalism and page layout are emphasized while developing the school newspaper. Publisher and digital cameras are used for the production of the paper, which is issued monthly. Self-discipline and strong, independent work habits are essential.

Title: **Telecommunications I, II, III**
Grades: 10, 11 & 12 – Credit: Elective
Prerequisite: Positive teacher recommendations
Strong academic record

Course #065, 070, 075
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Telecommunications teaches basic skills and concepts for producing television and radio programs. Writing, speaking, audio-video recording and teamwork for actual production comprise the course's main elements. Telecommunications also considers the media's content, societal role, influence, economic structure, new technology, current trends, history, and career possibilities. Students will learn through completing in-class productions and through programs produced for the school community as members of The Brandywine Broadcasting Network. Course participants should have strong composition, oral, organizational, and analytical skills, a willingness to study broadcasting equipment and techniques, plus the ability to work independently and as part of a team.

MATHEMATICS

Title: **Integrated Mathematics I**
Grades: 9 & 10 – Credit: Math
Prerequisite: Counselor Recommendation,
PSSA/ Terra Nova Scores

Course #105
10 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Integrated Mathematics I is the first course of a three year program covering the concepts and skills found in an Algebra I/Geometry/Algebra II sequence in a manner that integrates the skills of the three courses into each year's curriculum. The course is designed to meet the needs of students scoring basic or below basic on the PSSA, as well as those students that could benefit from an integrated approach to math.

Title: **Integrated Mathematics II**
Grades: 10 & 11 – Credit: Math
Prerequisite: Integrated Mathematics I

Course # 107
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Integrated Mathematics II is the second course of a three year program covering the concepts and skills found in an Algebra I/Geometry/Algebra II sequence in a manner that integrates the skills of the three courses into each year's curriculum. The second course builds on the topics studied in the Integrated Mathematics I.

Title: **Integrated Math III**
Grades: 11 & 12 – Credit: Math
Prerequisite: Integrated Mathematics II

Course # 109
5 Periods per week
1 Credit/ Year

COURSE DESCRIPTION: Integrated Mathematics III is the third course of a three year program covering the main concepts and skills found in an Algebra I/Geometry/Algebra II sequence in a manner that integrates the skills of the three courses into each year's curriculum. The third course builds on topics studied in the Integrated Mathematics I and II courses.

Title: **Algebra I**
Grades: 9 & 10 (Grade 8) – Credit: Math
Prerequisite: None

Course #110
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Algebra I begins with a review of the basic operations: addition, subtraction, multiplication and division. Following the review of the basic operations, the remaining part of the course is devoted to the central concept of algebra. This concept is the study, use and manipulations of variables. Several specific topics which are studied in Algebra I: linear inequalities, factoring, solving linear equations, and working with lines. Algebra I is a required course for all incoming freshmen who did not successfully complete it in middle school and are not enrolled in Integrated Math I.

Title: **Geometry**
Grades: 9, 10, 11 & 12 – Credit: Math
Prerequisite: Algebra I

Course #115
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Geometry covers basic geometric figures along with some proofs of theorems relating to these geometric figures. Specific topics covered are: parallel lines, congruent triangles, polygons, quadrilaterals, similar triangles, circles, area, and coordinate geometry. Geometry is a required course for all students who have successfully completed Algebra I.

Title: **Algebra II**
Grades: 10, 11 & 12 – Credit: Math
Prerequisite: Algebra I and Geometry

Course #120
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Algebra II begins with a review of the basic concepts from Algebra I which will be needed to pursue more advanced topics in Algebra. From there the course progresses to the study of polynomials and factoring. Topics which are studied later in the course include: rational expressions, real number, quadratic equations, and analytic geometry. Algebra II should be taken by all students who have successfully completed Algebra I and Geometry.

Title: **College Board Preparation Mathematics**
Grades: 10, 11 & 12 – Credit: If a student needs an additional .5 math credit as a senior, this course can be used as a math credit.

Course #125
5 Periods per week
.5 Credit /Year

Prerequisite: Minimum of Algebra I, student should presently be in a Geometry course.

COURSE DESCRIPTION: College Board Prep Mathematics is an elective course open to 2nd semester sophomores, and all juniors, and seniors, which will meet five days per week for one semester. College Board prep will consist of two areas of concentration. First, the students will study problems similar to those they will encounter in College Board exams. Second, the students will apply in problem solving situations much of the knowledge from their previous mathematics courses. This course is intended for academic students who are preparing to continue their education at the college level.

Title: **Trigonometry with Analytic Geometry**
Grades: 11 & 12 – Credit: Math
Prerequisite: Algebra I, Geometry and Algebra II

Course #130
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Trigonometry is concerned with the study of triangles. A brief review of Algebra II will be initially studied. The student will then learn about lines, circles and different types of functions. Periodic functions are discussed through the concept of circular functions. Graphing the functions will serve as an important method of examining the characteristics of these functions. Then, the trigonometric functions are developed and expanded upon. After the trigonometry sections, the students will work on conic sections. Each student needs a TI-83+ calculator. If they don't have one, the district will provide one. This is a required course for all juniors and underclass students who have successfully completed Algebra I, Geometry and Algebra II.

Title: **Honors Trigonometry with Analytic Geometry***
Grades: 11 & 12
Prerequisite: Algebra I, Algebra II, Geometry

Course #133
5 periods per week
1 credit / year

Candidates are determined by recommendations from their current Algebra II teacher, having a 93% on all previous math courses, and by their score on a pretest.

COURSE DESCRIPTION: Like the Trigonometry with Analytic Geometry course, this course is concerned with the study of triangles. Periodic functions will be discussed through the concept of the unit circle. These trigonometric functions will then be expanded upon. Along the way we also discuss content from Analytic Geometry. This course is designed to be faster paced and a more in depth version of the trigonometry course. More topics will be discussed and in more detail. Each student needs a TI-83+ calculator. If they don't have one, the district will provide one.

Title: **Introductory Statistics and Probability**
Grades: 11 & 12 – Credit: Math
Prerequisite: Algebra II

Course #135
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: The aim of this course is to provide a basic course in statistics and probability. Fundamental ideas of probability will be discussed as well as topics concerning the handling of numerical data and the treatment of random variables. If time permits, special cases of the binomial and normal random variable will be pursued. Completion of this course should give the student enough of a fundamental background to enroll in other statistical courses in college. This course is designed to be a semester course for students who have had or are presently taking Algebra II. The course meets five days per week.

Title: **Pre-Calculus**
Grades: 12 – Credit: Math
Prerequisite: Algebra I, II, Geometry
Trigonometry with Analytic Geometry

Course #140
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Pre-Calculus is designed for academic students planning to attend college but who do not wish to take the AP Calculus course. This course will cover a brief review of topics covered in Algebra II and Trigonometry with Analytic Geometry. A more in-depth coverage of different types of functions will then take place. Some of these functions will include logarithmic, exponential, and rational functions. Other topics could include parametric equations, complex numbers, matrices, sequences, and probability. A graphing calculator is recommended.

Title: **Advanced Placement Calculus AB***
Grades: 11&12 – Credit: Math (RACC Dual Enrollment)
Prerequisite: Algebra I, II, Geometry, Trigonometry
with Analytic Geometry

Course #145
6 Periods per week
1.2 Credit / Year

COURSE DESCRIPTION: Calculus is high level mathematics that consists of the study of instantaneous changes, motion, areas, and accumulated rates of change. Calculus is a powerful tool that has many practical applications in science and engineering. This course builds off of skills and concepts that are developed in Algebra, Geometry, and Trigonometry. Students should therefore have a strong background in these areas. Only those students who have earned a grade of B in Trigonometry and Analytic Geometry should consider taking AP Calculus AB. This course covers the material typically encountered in a 1st semester University level Calculus course. The aim of this course is to help prepare students for the Advanced Placement Calculus AB Exam that covers topics in single variable differential and integral calculus. The course content closely follows the College Board's suggested AP Calculus AB course outline. Numerical, graphical, and analytical approaches are emphasized and used to solve problems. Students are responsible for taking the AP exam at district expense.

Title: **Advanced Placement Calculus BC***
Grades: 12 – Credit: Math (RACC Dual Enrollment)
Prerequisite: Advanced Placement Calculus AB

Course #146
6 Periods per week
1.2 Credit/Year

COURSE DESCRIPTION: Advanced Placement Calculus BC builds off of skills and concepts developed in Algebra, Geometry, and Trigonometry, and AP Calculus AB. Students should therefore have a strong background and interest in these areas. The aim of this course is to help prepare students for the Advanced Placement BC Exam that covers topics in single variable differential and integral calculus. This is a sequence course that requires an advanced depth of understanding of AP Calculus AB topics. This course includes all topics in Calculus AB, plus additional topics such as parametric, polar, and vector functions, integration by parts, and polynomial approximations and series. Numerical, graphical, and analytical approaches are used and emphasized to solve problems.

COMPUTER SCIENCE

Title: **Computer Literacy**

Grades: 9, 10, 11 & 12 – Credit: Computer

Prerequisite: None

Course #150

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Computer Literacy is a study of computer system concepts and computer application use. Multiple operating systems and their use will be covered along with hardware and software concepts. Applications to be used will include word processing, spreadsheet, database and multi-media.

Title: **Computer Applications I**

Grades: 10, 11 & 12 – Credit: Computer (RACC Dual Enrollment)

Prerequisite: Word Processing I or II

Course #155

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Students will learn to apply a popular software package(s) to the solution of academic and business problems. Topics include word processing, data base management, spreadsheets and program integration.

Title: **Computer Applications II**

Grades: 10, 11 & 12 – Credit: Computer (RACC Dual Enrollment)

Prerequisite: Algebra I, Computer Applications I – 75% or better

Course #160

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Students will apply higher-level thinking to further the knowledge gained in Computer Applications I. Among the topics covered will be desktop publishing, advanced spreadsheets, word processing and databases. Graphics and image processing will also be covered.

Title: **Communication Presentation Design**

Grades: 10, 11 & 12 – Credit: Computer

Prerequisite:

Course #165

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: This course will introduce students to the world of desktop publishing, multimedia presentation, podcasting, as well as basic web page design. Students will create a variety of visual presentations and projects. Programs that may be used are Pages, Keynote, Garage Band and iLife suite.

Title: **Introduction to Computer Programming**

Grades: 10, 11 & 12 – Credit: Computer

Prerequisite: A passing grade Algebra I

Course #170

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Introduction to Computer Programming is the studies of the fundamental concepts of object oriented programming. This course will explore Java programming using Java development environment and stress the importance of good planning and algorithm design as well as the vocabulary and syntax of the Java computer language.

Title: Intermediate Computer Programming

Grades: 11 & 12

Prerequisite: 75% or better in Intro to Computer Programming

Course #175

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Intermediate Java is a second level computer programming course. Students will further explore the concepts of object oriented programming using a Java development environment. This course will focus on syntax of java programming language, creating applets and stand-alone applications.

Title: A+

Grades: 10, 11 & 12 – Credit: Computer

Prerequisite: A passing grade in Algebra I

Course #190

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: This course is to introduce students to the objectives of the A+ certification exam. It covers objective requirements of the Core and OS exams. Students will be introduced to key terminology and concepts associated with the A+ certification objectives. Students will have the opportunity to get hands on experience in assembling a computer with an ATX motherboard and installing an operating system.

Title: Word Processing I

Grades: 9, 10, 11 & 12 – Credit: Computer

Prerequisite: None

Course #545

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: This is a course recommended for all students. Emphasis is placed on learning the basic features of Microsoft Word. This is technology which is essential in the business world. The course will cover a review of the keyboard as well as an introduction to various business memorandums, letters, reports, tables, and other related business documents.

Title: Word Processing II

Grades: 9, 10, 11 & 12 – Credit: Computer

Prerequisite: Word Processing I – 75% or better

Course #550

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: This course expands the students' knowledge of Microsoft Word. Advanced features and techniques will be explored in this course and applied to more sophisticated business problems. The course will review various business documents as well as cover templates, wizards, customized tables and charts, graphics, basic desktop publishing and internet projects.

Title: Business Technology

Grades: 10, 11 & 12 – Credit: Computer

Prerequisite: Word Processing I – 75% or better

Course #560

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Business Technology students get an overview of advanced features of word processing, spreadsheets, and presentation software. This course is excellent for students headed for college or the business world. For those students who learn how to master this technology, a whole new world of career possibilities opens up and increases students' potentials.

Title: **Business Technology II***
Grades: 11 & 12 – Credit: Computer
Prerequisite: Business Technology I

Course #565
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Business Technology II students get an in-depth view of word processing, spreadsheets, presentational software, program integration and other computer applications. This course is an excellent follow-up to Business Technology I and is recommended for students who pursue a career in business.

PROJECT LEAD THE WAY PRE-ENGINEERING PROGRAM

Project Lead the Way is a college recognized pre-engineering program designed to introduce students to the career of engineering. This program prepares students for the types of engineering classes they will be taking in college. Students planning to major in engineering can benefit by completing the entire program, or just by taking one of the classes. The program is comprised of three foundation courses, a specialization course, and a capstone course. Currently, four courses are being offered:

- **Core Courses**
 - **Introduction to Engineering Design (IED)**
 - **Principles of Engineering (POE)**
 - **Digital Electronics (DE)**
- **Specialization Course**
 - **Civil Engineering & Architecture (CEA)**
- **Capstone Course**
 - **Engineering Design & Development (EDD)**

The foundation courses may be taken in sequence or individually, the content is not successive. The recommended sequence, however, is to first take Introduction to Engineering Design, then Principles of Engineering, Principles of Engineering Digital Electronics, Civil Engineering and Architecture, and finally Engineering Design & Development.

Title: **Introduction to Engineering Design (IED)**
Grades: 9, 10, 11, & 12 – Credit: Computer
Prerequisite: Algebra I

Course #740
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Introduction to Engineering Design™ (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, engineering standards, research and analysis, technical documentation, global and human impacts, communication methods, and teamwork. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

The course assumes no previous knowledge, but students should be concurrently enrolled in a college preparatory mathematics and science courses. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state-of-the art 3D solid modeling design software package to help them design solutions to solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Introduction to Engineering Design™ is one of three foundation courses in the Project Lead The Way® high school pre-engineering program. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

The course of study includes:

- Design Process
- Modeling
- Sketching
- Measurement, Statistics, and Applied Geometry
- Presentation Design and Delivery
- Engineering Drawing Standards
- CAD Solid Modeling
- Reverse Engineering
- Consumer Product Design Innovation
- Marketing
- Graphic Design
- Engineering Ethics
- Virtual Design Teams

The course was field tested during the 2006 – 2007 school year. The revised course was published for use by the Project Lead The Way® network for the 2007 – 2008 school year.

Project materials must be purchased by the students.

Title: **Principles of Engineering (POE)**
Grades: 10, 11 &12 – Credit: Computer, Elective
Prerequisite: IED

Course #741
5 Periods per week
1 Credit / Year

There is a \$10 lab fee associated with this course

COURSE DESCRIPTION: This course provides an overview of engineering and engineering technology. Students will develop problem-solving skills by tackling real-world engineering problems. This course provides a hands-on approach to science, math, and technology. Through theory and practical hands-on experience, students will become familiar with the multifaceted career of engineering. This course will explore the following topics: Design Process, Communication and Documentation, Engineering Systems, Fluid Power, Electronics, Robotics, Mechanical Systems, Materials and Materials Testing, Thermodynamics, and Engineering for Quality and Reliability. Students will work on projects such as Energy Transfer Devices, Marble Sorters, Balsa Wood Bridges, Pneumatic Labs, Electronic Labs, Ping Pong Ball Launchers, Hero’s Engines, and a Tensile Testing Activity.

In addition to the core topics like materials, pneumatics, and electronics, students will explore civil engineering and architecture, computer-aided design, and manufacturing.

Title: **Digital Electronics Description***
Grades: 10, 11 &12 – Credit: Computer, Elective
Prerequisite: IED

Course #742
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: How do robots make decisions? How does my calculator work? What does an electrical engineer do? These and many more questions are waiting for you to find the answers to the Digital Electronics™ course.

While seeking the answers to the listed questions, you will gain skills in basic electronics, logical thinking, problem solving, and trouble shooting. Digital electronics is so imbedded in your daily life, from listening to music to withdrawing money from a bank, that it has invaded many other areas of engineering. By gaining a basic understanding of digital electronics in high school, you are getting a head start on your engineering career – no matter what field you may progress in.

This course is designed to teach you about applied logic, which introduces you to the basics of electronics and digital systems – the building blocks to many products you use. The course is designed to expose students to engineering design and troubleshooting techniques that are used in the electronics field. Computer simulation software is used to design and test digital circuitry prior to actually constructing them in order to see if the circuits work. The projects vary from traditional, such as those found in watches, digital cameras, and calculators, to combinational logic using SSI chips, to small subsystem implementation in programmable devices, in which you will learn how machines “think.” You will also learn a systematic approach that engineers use to design the electronics that are used every day.

This course is important for anyone exploring a career in engineering or engineering technology. The prerequisite for this course is that a student be enrolled in college preparatory mathematics. It is recommended that they enter this course while enrolled in Algebra 1, Algebra 2, or a higher mathematics course. The Digital Electronics™ course is a foundation course and is part of a sequence of courses in the Project Lead The Way® program.

Course includes topics on:

- Basic electron theory
- Electron laws
- Number systems
- Logic systems
- Boolean Algebra
- Microprocessors
- Student Self-directed project

Title: **Civil Engineering and Architecture***
Grade: 12 – Credit: Elective
Prerequisite: DE

Course #743
5 Periods per week
1 Credit/Year

COURSE DESCRIPTION: Civil Engineering and Architecture introduces students to the interdependent fields of civil engineering and architecture; students learn project planning, site planning and building design.

SOCIAL STUDIES

Title: **History I**
Grades: 9 – Credit: History
Prerequisite: None

Course #200
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: History I provides the student with a look at American history from the Reconstruction Era through World War II. Emphasis is placed on the study of cultural diversity, geographical diversity, democratic values, economic development, technological and societal change, constitutional heritage and the global relations of a nation transformed over time. Specific areas of interest are The West, Immigration, 2nd Industrial Revolution, the Gilded Age, Progressive Reform, the Spanish-American War, WWI, League of Nations, the Roaring Twenties, the Depression, the Holocaust, and WWII.

Title: **History II**
Grades: 10 – Credit: History
Prerequisite: Successful completion of History I

Course #205
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: History II is an overview of recent American history and a study of the world events that profoundly impacted the United States between the years of 1945 and the present. The course begins with an examination of the outcomes / impact of World War II and the subsequent deterioration of U.S.-Soviet relations. Additional areas of focus include but will not be limited to: The Civil Rights Movement, Dwight D. Eisenhower's administration, the Vietnam Conflict, Kennedy / Johnson years, Nixon's administration, the energy crisis, Reagan's administration as well as a social, political and economic analysis of the 50's, 60's, 70's, 80's and 90's. The course will conclude with an analysis of the events of September 11th and its implications on U.S. foreign policy.

Title: **Advanced Placement United States History***
Grades: 10 – Credit: History (RACC Dual Enrollment)
Prerequisite: Successful completion of History I

Course #215
5 Periods per week
1 Credit / Year

This class can be taken in place of History II.

COURSE DESCRIPTION: AP U.S. history is designed to provide a college level American history class in high school. Because of this advanced reading and writing will be required. U.S. history from 1492-1984 will be examined in depth using texts, primary and secondary documents. This class is recommended for students who have a desire to delve into history to examine trends and changes through time. Students are responsible for taking the AP exam at district expense.

Title: **History III**
Grades: 11 – Credit: History
Prerequisite: Successful completion of History I and II

Course #210
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: History III is a study of modern world cultures, focusing on the cultures of non-western countries since the 1850's. Students will be able to examine history and culture of Africa, Asia and South America, as well as concentrate on some modern world dilemmas such as the quest for oil, struggles in the Middle East and global environmental concerns. Students will look at the effectiveness of world organizations like the United Nations, The World Health Organization and The European Union.

Title: **Advanced Placement World History***
Grades: 11 – Credit: History
Prerequisite: Successful completion of History II

Course #255
5 Periods per week
1 Credit / Year

This class can be taken in place of History III.

COURSE DESCRIPTION: This course offers the student a comprehensive look at world history from approximately 8000 B.C. to the present, covering themes such as; politics, culture, art, language, military, technology and geography. This is designed to be a college level course therefore advanced reading and writing will be required. Students should take this class if they have a desire to see how seemingly disconnected world events can connect through various ways. It is beneficial, but not required, that students have taken AP U.S. History in grade 10, as connections to U.S. history will be necessary. Students are responsible for taking the AP exam at district expense.

Title: **Government / Economics**
Grades: 12 – Credit: History
Prerequisite: Successful completion of History I & II

Course #220
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: A real-life practical approach to the key concepts of our representative form of government is presented within this course. Focus is given to the history and structure of the government as well as all of the intricacies of the election process. Special attention will be given to current political issues. This course will also examine the role that the government plays in the regulation of the U.S. economy (specifically in foreign affairs, global trade, entitlement programs, and budget issues.)

Title: **Advanced Placement U.S. Government & Politics***
Grades: 12 – Credit: History (RACC Dual Enrollment)
Prerequisite: History III or AP World History

Course #221
5 Periods per week
1 Credit / Year

Teacher recommendation, summer reading and essay

COURSE DESCRIPTION: Advanced Placement U.S. Government and Politics is a year long course offered to seniors in place of the traditional semester U.S. Government course. The course is designed to give students a critical perspective on the institutions of American Government. It requires familiarity with various institutions, groups, and beliefs that lay the foundation of American politics. Those who wish to enroll in the course will be completing studies equivalent to an introductory college course in American Government and Politics. Students are responsible for taking the AP exam at district expense.

Title: **Psychology**
Grades: 11 & 12 – Credit: Elective
Prerequisite: Successful completion of History I & II

Course #225
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: This course will introduce students to the fundamental theories about the development of the individual. It will focus on physiological and environmental components of human development as well as issues related to cognitive, personality and psychosocial development. Taking this course will provide information that could lead to an understanding of your own experiences and the behavior of others. It will also provide you with a strong background for an introductory college course in psychology.

Title: **Sociology**
Grades: 11 & 12 – Credit: Elective
Prerequisite: Successful completion of History I & II

Course #230
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Sociology is the study of human behavior in groups. This class will explore culture, race, ethnicity, gender, family, social class and aging issues. Taking this course will provide information that could lead to an understanding of how elements of society influence behavior.

Title: **History of Women**
Grades: 11 & 12 – Credit: Elective
Prerequisite: Successful completion of History I & II

Course #250
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: While women are an essential component of society, their historical contributions are often overlooked. The role of women has changed from ancient civilizations to the current day. This course will examine issues that women face and study key women that have played a role in increasing opportunities for their gender. In spite of the efforts of the women's movement, sexism and discrimination still exist. This course is recommended for juniors and seniors who want to better understand how these issues influence both men and women historically and in the world today.

CAREER EDUCATION

Title: **Career Education**
Grades: 10 – Credit: Career
Prerequisite: None

Course #260
1 Period per week
.10 Credit / Sem.

COURSE DESCRIPTION: In this course, students begin the process of assembling the information necessary to determine their future career choices. Students will receive information regarding their interests, aptitudes, etc., and will be exposed to various career fields through a series of speakers. Students will conduct career research and will write a research paper on a career of their choice. Successful completion of this course is a graduation requirement.

Title: **Career Internship Program**
Grades: 12 – Credit: Elective
Prerequisite: Two teacher recommendations

Course #275
Up to 15 Periods per week
Up to 3 Credits / Year or Sem.

COURSE DESCRIPTION: This program provides seniors with the opportunity to shadow an individual in a potential career they are considering. The position must be within the student's career pathway and they must meet eligibility requirements regarding graduation credits, grades and recommendations. A student's performance in the program will be evaluated and a corresponding grade will be given. Students should meet with the Career Counselor regarding program details prior to course selection.

Title: **Career Shadowing**
Grades: 9, 10, 11 & 12

COURSE DESCRIPTION: The high school strongly encourages students to spend time observing individuals engaged in careers they are considering. Students need prior permission from parents and the Career Counselor before they spend time shadowing during school hours. In addition, a short questionnaire regarding their shadowing experience must be completed. The high school will assist students in locating mentors whenever possible. Students should contact the Career Counselor for the necessary forms or if they need help in finding a mentor.

SCIENCE

Title: **General Science**
Grades: 9 – Credit: Science
Prerequisite: None

Course #300
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: General Science is required for all ninth grade students. The main focus of the course is Physical Science with excursions into biological connection for each of the topics covered. The study of Physical Science emphasizes scientific theory and development of investigative skills through the application of the scientific method in laboratory classes. The major units of study include Force and Motion, Energy and Work, Machines, Waves, Sound, Light, Electricity, Magnetism, Properties of Matter, Elements and Atoms, Compounds and Mixtures. It is important for the student to keep a notebook with completed labs and homework assignments to help in preparation for test and quizzes.

Title: **Applied Biology**
Grades: 10, 11 & 12 – Credit: Science
Prerequisite: None

Course #305
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Applied Biology is a course that emphasizes problem solving, decision making, critical thinking, hands-on and applied learning. Students will explore concepts and principles of biology and chemistry. They will apply these concepts and principles to issues in the workplace, society, and personal and life experiences. This course is designed to be academically rigorous and realistic for students pursuing technical careers as well as for students planning to continue their education at the technical or collegiate level. Applied Biology will include some of the following modules: Cellular Structure and Reproduction; Genetics; Evolution; Classification; and Taxonomy. It is an integrated package which includes videotapes, activities, hands-on labs, and research projects. Each student will be evaluated in the following areas; tests, quizzes, homework, projects, current events, class participation, notebooks, laboratories, and in-class assignments. The final grade will be an average of all four quarters, the midterm exam, and the final exam grade.

Title: **Biology I**
Grades: 10 – Credit: Science
Prerequisite: Grade of >75% in General Science

Course #311
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Biology I is structured around a series of major themes; science as investigation and inquiry, chemistry, biochemistry, cellular anatomy and physiology, change of organisms as evolution, genetic continuity, ecology, and taxonomy. This course is recommended for academic students in their sophomore year planning to pursue higher education. Each student will be evaluated in the following areas; tests, quizzes, homework, projects, class participation, notebooks, laboratories, and in-class assignments. The final grade will be an average of all four quarters, midterm exam, and the final exam grade.

Title: **Honors Biology I***
Grades: 10 - Credit: Science
Prerequisite: Final grade >92% in General Science
Teacher recommendation

Course #312
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: For initial entrance, it is strongly recommended that students achieve a 93% or better for the first three marking periods in grade 9 General Science and have the ninth grade science teacher's recommendation. The Honors Biology curriculum will include all of the course work that is required in the Biology I course. In addition, the material presented in the honors course will be offered at an accelerated pace with the student being expected to do more reading and independent written work. This course will demand that the student have excellent organizational skills as well as above average reading comprehension. Several projects will be completed during the year with emphasis on laboratory experience, independent library research, and application and synthesis of material presented. Testing methods will require some memorization of scientific terminology but will concentrate on application and synthesis of concepts learned in class and from research assignments. Hands-on laboratory experiences are an integral part of this course.

Title: **Anatomy and Physiology***

Grades: 11 & 12 – Credit: Science (RACC Dual Enrollment)

Prerequisite: Completion of Biology I or Honors
Biology I with grade >84% or written
consent of instructor

Course #315

6 Periods per week

1.2 Credits / Year

COURSE DESCRIPTION: **Anatomy and Physiology** is structured around a series of major themes in Anatomy and Physiology beginning with the characteristics of life, cellular anatomy and physiology, tissues, and building up to various systems in the human body. This course is suggested for academic students interested in pursuing higher education in the areas of medical or biological fields of science. To enroll in this course students must have achieved a B or better in Biology I or Honors Biology I or obtain written consent of the instructor. This class meets 6 periods a week for 1.2 credits. Each student will be evaluated in the following areas: tests, quizzes, homework, projects, class participation, laboratories, and in-class assignments. The final grade will be an average of all four quarters, midterm exam, and the final exam grade.

Title: **Chemistry I**

Grades: 11 – Credit: Science

Prerequisite: Successful completion of Algebra I,
Geometry and Biology I or Honors Biology

Course #320

6 Periods per week

1.2 Credits / Year

COURSE DESCRIPTION: Chemistry is the study of matter. The following topics are included in the course: classification of matter, structure of the atom, bonding, periodicity, chemical calculations, phases of matter, nomenclature, and reactions. This course is highly recommended for college bound students. Hands-on laboratory activities are an integral component of the course. A scientific calculator is required.

Title: **Chemistry II***

Grades: 12 – Credit: Science

Prerequisite: Successful completion of Algebra II and
Chemistry I

Course #325

6 Periods per week

1.2 Credits / Year

COURSE DESCRIPTION: Chemistry II is highly recommended for college bound students. It is a continuation of Chemistry I. The following topics are included: solutions, chemical equilibrium, electrochemistry, nuclear chemistry, organic chemistry, and chemical kinetics. Hands-on laboratory activities are an integral component of the course. A scientific calculator is required.

Title: **Advanced General Science**

Grades: 11 & 12 – Credit: Science

Prerequisite: Grade 9 General Science, Applied Biology or
Biology I or Honors Biology

Course #335

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: Advanced General Science is a laboratory centered science course designed for non-college bound students. The course covers three broad areas of study; the study of water, the study of synthetic materials and the study of selected advanced topics in Earth and Space. Students are required to keep a notebook, write lab reports, take quizzes, tests and complete in-class assignments.

Title: **Advanced Physical Science (with an emphasis on Chemistry)**
Grades: 11 & 12 – Credit: Science
Prerequisite: Grade 9 General Science, Applied Biology or Biology I
Or Honors Biology

Course #330
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Advanced Physical Science with an emphasis on Chemistry is a rigorous course suited for those juniors and seniors who are pursuing a college career in a non-science major or for students who are pursuing a technical career. Topics which are covered include; Classification of matter, Atomic structure and periodic table, Chemical bonds, Basic Stoichiometry, Basic nomenclature, Chemical reactions, Acids, Bases and Salts, and Polymer and alloys. This is a laboratory-centered course which emphasizes a hands-on approach to learning science. Students are required to keep an organized notebook, write lab reports, take quizzes and tests and complete in-class assignments.

Title: **Elementary Physics**
Grades: 11 & 12 – Credit: Science
Prerequisite: 9th grade General Science, Applied Biology or Biology I
Or Honors Biology

Course #331
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Elementary Physics is a rigorous course suited for those juniors and seniors who are pursuing a college career in a non-science major or for students who are pursuing technical careers in manufacturing, electronics, automotive, etc. The aim of this course is to introduce students to topics in physics with the emphasis on connecting theory to practical applications. Topics included are; the nature of science, motion, forces, Newton's Laws, energy, heat, fluids, radioactivity, harmonic motion, waves, sound, light, optics, electricity & magnetism. This is a laboratory-centered course, which emphasizes a hands-on approach to learning science. The mathematics involved in the course is limited to Algebra I concepts. Students are required to keep a notebook, write lab reports, take quizzes and tests, and complete in-class assignments.

Title: **Physics***
Grades: 12 – Credit: Science
Prerequisite: Algebra II, Chemistry I, and Trigonometry
or Pre-calculus or concurrent enrollment in Trigonometry or
Pre-calculus

Course #340
6 Periods per week
1.2 Credits / Year

COURSE DESCRIPTION: Physics is necessary for students who are interested in pursuing careers related to science, mathematics, or engineering. The aim of this course is to introduce students to a non-calculus based study of introductory physics. Topics included are; vectors, motion, forces, statics, dynamics, energy, momentum, rotation, gravitation, heat, harmonic motion, waves, light, optics, and electricity & magnetism. Focus will be on conceptual and mathematical approaches to solving physics problems. Laboratory work is an integral part of the course. Students taking this course should have a strong background in algebra and elementary trigonometry.

The program offers an academically challenging experience that seeks to enroll seniors who wish to pursue a career in the health care field (i.e. medicine, nursing, the therapies, etc.) It is a partnership between The Reading Hospital, Penn State Berks and the Berks Career & Technology Center. Classes meet at the Reading Hospital on Monday, Wednesday, and Friday from 7:00 to 10:00 a.m. Health theory is combined with job shadowing experiences and will cover such topics as medical terminology, anatomy, physiology, aseptic technique, OSHA regulations, infection control, medical & ethical responsibilities and basic clinical skills. Students will attend classes at Penn State Berks on Tuesday and Thursday for the same time period. In the fall semester they will take Biology 141 & 142: Physiology & Physiology Lab. In the spring semester they will have Chemistry 12 & 14: Chemistry & Chemistry Lab. Each course with the lab is four credits. Students will be responsible for their own transportation, the payment of the Penn State tuition at a discounted rate, and their books.

WORLD LANGUAGES

Title: **German I**

Grades: 9 & 10 – Credit: Elective

Prerequisite: None

Course #400

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: German I offers an introduction to the German language. It is a course designed primarily to provide the student with basic abilities in the four skills areas; listening, reading, writing, and speaking. While primary emphasis is on the receptive abilities to listen and read, students will need to actively produce the target language both in oral and written format. Dedication to daily review of vocabulary and grammar functions will be key to a successful year. Class will be conducted in the target language as possible and appropriate.

Title: **German II**

Grades: 10 & 11 – Credit: Elective

Prerequisite: German I

Course #405

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: German II will expand the topics which student will be responsible for within the German language. It is a course designed primarily to provide the student with basic to intermediate abilities in the four skills areas: listening, reading, writing, and speaking. Emphasis is on both the receptive abilities (listening and reading) and productive abilities (speaking and writing). Dedication to daily review of vocabulary and grammar functions will be key to a successful year. Class will be conducted in the target language as possible and appropriate.

Title: **German III**
Grades: 11 & 12 – Credit: Elective (LCCC Dual Enrollment)
Prerequisite: German II

Course #410
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: German III will give more depth to the topics, which student will be responsible for within the German language. It is a course designed primarily to provide the student with intermediate abilities in the four skills areas: listening, reading, writing, and speaking. Emphasis is on both the receptive abilities (listening and reading) and productive abilities (speaking and writing). Dedication to daily review of vocabulary and grammar functions will be key to a successful year. Class will be conducted in the target language as possible and appropriate.

Title: **German IV***
Grades: 12 – Credit: Elective (LCCC Dual Enrollment)
Prerequisite: German III

Course #415
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: German IV will give more depth to the topics, which student will be responsible for within the German language. It is a course designed primarily to provide the student with intermediate to advanced intermediate abilities in the four skills areas: listening, reading, writing, and speaking. Emphasis is on both the receptive abilities (listening and reading) and productive abilities (speaking and writing). Dedication to daily review of vocabulary and grammar functions will be key to a successful year. Class will be conducted in the target language as possible and appropriate.

Title: **Spanish I**
Grades: 9 & 10 – Credit: Elective
Prerequisite: None

Course #420
5 Periods per week
1 Credit/ Year

COURSE DESCRIPTION: Spanish I is an introduction to the Spanish language. It is a course designed primarily to provide the student with the basic skills of listening, speaking, reading and writing. More emphasis is placed on receptive skills rather than productive skills. General cultural aspects of the Hispanic culture will be learned.

Title: **Spanish II**
Grades: 10 & 11 – Credit: Elective
Prerequisite: Spanish I

Course #425
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Spanish II is the continuation of Spanish I. The course further develops the four basic language skills: listening, speaking, reading and writing. More complex grammatical structures will be studied. The Spanish culture is also studied in detail. Students will analyze a short summary of Don Quixote. Students will also see Destinos episodes 1 – 17. (Destinos is a telenovela especially designed for the students studying the Spanish language.)

Title: **Spanish III**
Grades: 11 & 12 – Credit: Elective (RACC Dual Enrollment)
Prerequisite: Spanish II

Course #430
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Spanish III is the continuation of Spanish II. Although the course stresses the four basic language skills of speaking, listening, reading and writing, more emphasis is placed on the productive skills of speaking and writing. Spanish culture is studied in detail. It is suggested that a student have a “C” in Spanish II to study Spanish III. Students will read a short version of *Marinaela*. Episodes 18 – 34 of *Destinos* will be seen.

Title: **Spanish IV***
Grades: 12 – Credit – Elective (RACC Dual Enrollment)
Prerequisite: Spanish III

Course #435
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Spanish IV is a continuation of Spanish III. More complex grammatical structure will be studied. Emphasis will be placed on speaking and writing the Spanish language. Students will focus on reading short stories, various essays, newspapers and magazines in the Spanish language. Students will also conclude *Destinos* episodes 37 – 52. cable channel.

Title: **French I**
Grades: 9 & 10 – Credit: Elective
Prerequisite: None

Course #440
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: French I offers students an opportunity to develop basic communication skills in the French language. It focuses on listening, speaking, reading and writing within the context of meaningful communicative activities. The study of French culture within the framework of language study will be an important aspect of the course.

Title: **French II**
Grades: 10 & 11 – Credit: Elective
Prerequisite: French I

Course #445
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: French II allows students to refine and expand their ability to communicate in the French language. The course will further develop the four language skills including reading, writing, listening and speaking. It will also take a closer look at aspects of French culture and will encourage students to investigate and report on areas of the culture that may be of interest to them. As in French I, emphasis will be on using the language in a meaningful, communicative way.

Title: **French III**
Grades: 11 & 12 – Credit: Elective (LCCC Dual Enrollment)
Prerequisite: French II

Course #450
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: French III is a continuation of French II. Students will expand their knowledge of French vocabulary and learn more complex grammatical structures. Emphasis will be placed on using the language to communicate in a creative way. Students will also learn something about French literature and culture.

Title: **French IV***
Grades: 12 – Credit: Elective (LCCC Dual Enrollment)
Prerequisite: French III

Course #455
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: French IV continues the study of the French language and culture that was begun in earlier courses. There will be added emphasis placed on using the language creatively to communicate in a meaningful way and the class will be conducted in French as much as possible. Students will increase their knowledge of French grammar and vocabulary and they will further develop their listening and speaking skills. In addition, students will enrich their knowledge of the language by reading French stories and literature. The course will also include the use of supplemental audio-visual materials that will allow students to practice listening to a variety of native speakers.

BUSINESS

Title: **Introduction to Business**
Grades: 9 & 10 – Credit: Elective
Prerequisite: None

Course #500
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Introduction to Business is a full-year course for ninth and tenth grade students. The course involves the study of owning a business, handling business information, operating a retail business, planning for careers in business, using banking services, learning to be an intelligent consumer, managing your money, investing, buying insurance, using credit and learning about the role of computers in everyday life. The course is recommended for students interested in taking additional business courses or students who want to learn more about the business world.

Title: **Accounting I**
Grades: 10, 11 & 12 – Credit: Elective
Prerequisite: None

Course #505
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Accounting I is a full year course for tenth to twelfth grade students. It is a study of analyzing business transactions in journals, posting to ledger accounts, and reporting information by preparing financial statements. Computer applications are an integral part of the course. It is recommended for students who want to learn the concepts and language of business to prepare for a career in accounting or pursue further study in the field.

Title: **Accounting II***
Grades: 11 & 12 – Credits: Elective
Prerequisite: At least a 75% average in Accounting I

Course #510
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Accounting II is a full year course for students in grades eleven and twelve. It is an advanced study of the principles learned in Accounting I. The course involves ratio and comparative analysis of corporate financial statements, departmental accounting, uncollectable accounts, plant asset accounting, and accrued and deferred income and expenses. Computer applications are a part of this course. The course is recommended for those who plan to seek employment after high school or pursue a business program on the college level.

Title: **Accounting III***
Grades: 12 – Credits: Elective
Prerequisite: At least a 75% average in Accounting II

Course #511
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Accounting III is a full year course for students in grade twelve. Successful businesses keep a close watch on costs, and in Accounting III you will be provided with the tools needed to monitor costs. The course is recommended for those who plan to seek employment after high school or pursue a business program on the college level.

Title: **Business Math I**
Grades: 9 & 10 – Credit: Elective
Prerequisite: None

Course #515
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Business Math I is a course offered to ninth and tenth grade students. The course offers practical application problems for consumer and business use. In addition to the review of basic arithmetical skills, the course also covers everyday personal use problems as well as those of the business world.

Title: **Business Math II**
Grades: 11 & 12 – Credit: Math* or Elective
Prerequisite: Successful completion of Algebra I & Geometry

Course #520
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Business Math II is a course offered to eleventh and twelfth grade students. The course is an advanced study of the skills learned in Business Math I. It contains valuable information in solving problems dealing with home expenses, transportation, taxes, small businesses, retailing, selling and wholesaling.

** Math credit may be earned by seniors who are short a math credit.*

Title: **Business and Consumer Law**
Grades: 11 & 12 – Credit: Elective
Prerequisite: None

Course #525
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Business Law is a full year course. The course helps students identify legal issues and problems that arise in everyday living. Topics include practical, up-to-date information about consumer protection legislations, warranties, product liability, truth-in-lending, truth-in-advertising, and other consumer law subjects. This course is recommended for all students.

Title: **Business Economics I**

Grades: 11 & 12 – Credit: Elective

(RACC Dual Enrollment - When taken in sequence with Business Economics II)

Prerequisite: None

Course #530

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Economics I is a semester course for eleventh and twelfth grade students. The course deals with “Microeconomics” which explains the choices made by individual consumers and producers in the marketplace. The course shows how these individual choices affect supply and demand. It describes the organization of individual business firms and markets, ways to improve the market system, the labor market and individual income, and the importance of agriculture in the economy. Use of the internet is also a part of this course. This course is recommended for all students.

Title: **Business Economics II**

Grades: 11 & 12 – Credit: Elective

(RACC Dual Enrollment - When taken in sequence with Business Economics I)

Prerequisite: None

Course #535

5 Periods per week

.5 Credits / Semester

COURSE DESCRIPTION: Economics II is a semester course for eleventh and twelfth grade students. The course deals with “Macroeconomics” which explains the choices made by the whole economy, as reflected in aggregate demand and supply. Topics explored include GDP, unemployment, inflation, the money supply and the banking system, monetary policy, taxes and fiscal policy. This course is recommended for all students.

Title: **Record Keeping**

Grades: 11 & 12 – Credit: Elective

Prerequisite: None

Course #570

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: Record Keeping is a course available to eleventh and twelfth grade students. The students learn basic bookkeeping skills necessary to keep systematic business records. Some computer work may be involved. This course is recommended for students who do not take Accounting I.

BAND / CHORUS

Title: **High School Band**

Grades: 9, 10, 11 & 12 – Credit: Art

Prerequisite: None

Course #600

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: The Brandywine Heights High School Band is an organization which is comprised of instrumentalists in Grades 9 through 12. The course provides students with the opportunity to participate in various performances such as parades, concerts and adjudications. Students also receive group instruction on their respective musical instruments one period per week. The band rehearses first period every day and one evening per week from 6:30-8:30 p.m.. Students participating in the band program receive a quarter grade which is based on the following criteria: **1.** An instrumental lesson each week; **2.** Attendance at respective performances; **3.** Attendance at band rehearsals; and **4.** Attitude.

Title: **High School Band & Concert Choir**

Grades: 9, 10, 11 & 12 – Credit: Art

Prerequisite: None

Course #605

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: This option is designed for students to participate in both chorus and band. Students attend both organizations on an alternating basis every day 1st period. They must participate in all rehearsals and performances that are required of each organization. Students who elect band and chorus combination receive a quarter grade as defined by each of the groups.

Title: **High School Concert Choir**

Grades: 9, 10, 11 & 12 – Credit: Art

Prerequisite: None

Course #610

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: This class is designed for students who wish to experience the value and excitement of singing in a large ensemble. In the Concert Choir class students will be exposed to the physical “tools” that are used to develop the voice. They will develop the literacy skills that will enable them to read and interpret written music, to understand the historical and cultural origins, and appreciate the composer’s intent of the literature. The Concert Choir rehearses during first period every day. Each student also receives group instruction on his or her respective voice part one period per week. Students participating in the Choir program receive a quarter grade based on the following criteria; a vocal lesson each week; attendance at scheduled rehearsals and performances; oral and written skills; classroom and concert etiquette.

Title: **Music Listening and Literature**

Grades: 9, 10, 11, and 12 - Credit: Art

Course #612

5 periods per week

1 credit per year

COURSE DESCRIPTION: This course is designed for any beginning or advanced student in grades 9 – 12 who desire to become musically literate and experience the development of music through history. The course will introduce students to the understanding and appreciation of music in a historical context. In addition, focus will be on increasing skills in music reading, perceptive listening, and research. Concepts include practical suggestions for listening and analysis, understanding of the elements of music (melody, rhythm, harmony, texture, form), and the culture of music from the Middle Ages, Renaissance, Baroque, Classical, Romantic, Twentieth Century, Jazz, Musical Theater, Music for Films and Modern Music (Rock, Country-Western). This highly structured course is recommended for the serious, self-motivated student who wishes to experience the appreciation of music in a challenging, concentrated environment.

General objectives of the course are:

1. To develop basic skills in music literacy in order to read and interpret written music;
2. To develop an understanding of the structure in musical composition in terms of melody, rhythm, harmony, texture, form;
3. To develop the art of perceptive listening in the study of music literature;
4. To develop individual thinking of a more advanced and independent level;
5. To develop and appreciation for the social and historical context of music making.

Title: **Music Theory I**
Grades: 9, 10, 11 & 12 – Credit: Art
Prerequisite: None

Course #615
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Music Theory I is designed for students in grades nine through twelve who desire to become literate, therefore increasing skills in music reading, composition, performing and appreciation. By the end of the course, each student will demonstrate skills in Music Literacy (reading and notating pitches and rhythmic symbols), music composition (musical forms, four-part writing, transposition, form), and keyboard experience (playing major / minor scales; identifying and playing melodies and simple harmonies). This highly structured course is recommended for the serious, self-motivated student who wishes to experience the challenges of deeper experiences in aural and written music.

Title: **Advanced Placement Music Theory***
Grades: 11 & 12 – Credit: Art
Prerequisite: Music Theory I or pass applicable written/oral test

Course #618
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Advanced Placement Music Theory is designed to develop the student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. The achievement of these goals will be approached by addressing aural, sight-singing, written, analytical and compositional skills using both listening and written exercises. This course offers students an opportunity to take a college-level course while still in high school. Students successfully completing advanced placement courses and AP testing may earn credit and / or advanced standing in college. Students are responsible for taking the AP exam at district expense.

ART

Title: **Art I**
Grades: 9 & 10 – Credit: Art
Prerequisite: None

Course #620
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Art I is an introduction to the fundamentals of art. Projects include the exploration of the basic elements of line, form, color, contrast, composition and texture in both two and three-dimensional design. Basic lettering, pottery, perspective and drawing are areas included in this course. Media to be explored include charcoal, pencil, marker, tempera paint, pastels and clay.

Title: **Art II**
Grades: 10, 11 & 12 – Credit: Art
Prerequisite: Art I

Course #625
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Art II explores the various means and techniques available to the craftsman as well as the fine artist. The student develops talents and builds on fundamentals learned in Art I. Emphasis is placed on technique in the following areas; drawing, painting, pottery, calligraphy, simple graphics and introduction to simple metal work. **Please note:** Some projects may involve student cost. Media to be explored include pen and ink, pencil, charcoal, pastel, clay, watercolors, acrylics and other craft materials.

Title: **Art III[^]**
Grades: 11 & 12 – Credit: Art
Prerequisite: Art I and II or Drawing & Illustration

Course #630
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Art III deals with advanced problems in all media including both two and three-dimensional areas. Some of the units in the Art III curriculum include painting (oils and watercolors), ceramic design, metals and jewelry, drawing and fibers and crafts. Some of the units may involve some student expense. Students considering post-graduate studies will receive aid in developing a portfolio. Summer assignments must be completed prior to the start of the course.

Title: **Art IV^{^*}**
Grades: 12 – Credit: Art
Prerequisite: Art I, II and III, and / or Drawing & Illustration

Course #635
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: This course is designed for the fourth year art student or the highly motivated student in the serious study of art. Assigned problems will be interspersed with independent study problems. Students considering post-graduate studies will receive aid in developing a portfolio. Media include oil paints, acrylics, pen and ink, jewelry-metal craft, airbrush, silk screening and other advanced areas. Summer assignments must be completed prior to the start of the course.

[^]Students entering Arts III and IV will be expected to purchase an art tool box that contains the following items: Drawing pencils, magic rub eraser, 3/4 inch masking tape, rubber cement, x-acto knife and blade refills, black ink pen, 4/0 jewelers saw blades and other selected items. Maximum cost of these kits will be \$20.00 and they can be purchased at the beginning of class.

Placement in advanced Arts III and IV will be based on student evaluation forms. Students may pick these forms up in the art rooms. Forms must be completed before the class selection process takes place.

Title: **Drawing and Illustration**
Grades: 11 & 12 – Credit: Art
Prerequisite: Art I & Art II

Course #640
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Drawing & Illustration is designed and recommended for any serious art student considering a post-graduate study in visual arts. Its focus includes portfolio preparation in the areas of figure study and drawing from 3-D objects. This is an intensely condensed course that includes all facets of drawing. Perspective, figure study, landscape and portraiture are all areas that will be covered during the semester. Creativity, problem solving and diversity are stressed in the illustration units. A sketchbook and portfolio must be maintained and submitted at the end of the semester. This course is strongly recommended to be taken in the spring semester of your junior year or the fall semester of your senior year.

Title: **Black & White Photography**

Grades: 11 & 12 – Credit: Art

Prerequisite: As noted below

Course #645

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Photography is a visual arts elective that offers the secondary student an opportunity to study and develop a life-long skill. The content of this class includes a historical overview from the origins of photography to contemporary photographers. The mechanics of the camera, negative and print development are an essential portion of the curriculum. Simple alternative printing methods and techniques are also included in this broad overview of black and white photography. Prerequisites are two credits in secondary fine arts, or the permission of the department. *Students must own or have access to a 35mm camera and are responsible for costs of paper and film. (maximum estimated cost \$50.00)*

Title: **AP Art History ***

Grades: 11 & 12 – Credit: Art

Prerequisite: Writing sample, teacher recommendation

Course #650

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: AP Art History will introduce students to the understanding and enjoyment of all aspects of the fine arts, focusing especially on painting, sculpture and architecture in their historical context. The course will concentrate primarily on Western art, from Greece and Rome to the twentieth century. Other artistic traditions, notably those of Asia, Africa and the Islamic world, will also be studied. Students are responsible for taking the AP exam at district expense.

Title: **Graphics Arts I**

Grades: 10, 11 & 12 – Credit: Art, Computer

Prerequisite: Art I, Computer Literacy

Course #655

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: Computer Graphics I is a course designed for students who have a particular interest in utilizing the capabilities of the computer when working with art, design and visual communication. The intention of this course is to familiarize students with the most common and current program applications which are used in the visual arts at universities as well as in the communication design field. Students will be introduced to Adobe Photoshop (a pixel oriented graphics application), which is most commonly used for photo manipulation, and Adobe Illustrator (an algorithm based graphics application), which is most commonly used in logo and product design.

Title: **Graphics Arts II**

Grades: 10, 11 & 12 – Credit: Art, Computer

Prerequisite: Graphics Arts I

Course #656

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Graphics Arts II is a course designed for students who are highly motivated and have a serious interest in using the computer as a tool to aid in the development of visual communication media. The course will build on the skills acquired in Graphics Arts I and introduce new graphics software as well. Students will be expected to solve advanced design problems and apply design concepts and color theory to create effective communication designs. Students considering post-graduate study of communication design and computer graphics will begin to develop a portfolio.

Title: Graphics Arts III

Grades: 11 & 12 – Credit: Art, Computer

Prerequisite: Placement in computer Graphics Art III will be based on a student evaluation form. Students may pick these forms up in the graphics arts room. Forms must be completed before the class selection process takes place and the student must pass Graphics Arts I & II.

Course #661

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Graphics Arts III is a course designed for students who are interested in pursuing post-graduate studies in graphic design/visual communications. Areas covered will include, but are not limited to: the history of graphic design, typography development, branding and product design, and designing for target markets. Students will receive aid in developing a portfolio digitally and web-based.

FAMILY & CONSUMER SCIENCES

Title: Introduction to Family & Consumer Sciences

Grades: 9 & 10 – Credit: Art

Prerequisite: None

(Project materials may be required to be purchased by students)

Course #700

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: This is a semester course for freshmen and sophomores that teach a basic introduction to foods, nutrition, consumerism and the fundamentals of sewing. The foods unit includes simple-to-prepare foods and their nutritional content, proper use of equipment, and safety and sanitation guidelines. Students will learn basic information about shopping and making informed choices as a consumer. The sewing unit is an introduction to the basics of hand and machine sewing.

Title: Housing and Interior Design

Grades: 10, 11 & 12 – Credit: Art

Prerequisite: None

(Project materials may be required to be purchased by students)

Course #705

5 Periods per week

.5 Credit / Year

COURSE DESCRIPTION: This is a semester course for sophomores, juniors and seniors in which they will explore styles and types of housing; color theory, line, design and furniture styles, and placement in relation to decorating, and arranging floor plans. Students will also learn about money management, budgeting and consumerism.

Title: Child Care and Development

Grades: 11 & 12 – Credit: Health & Wellness

Prerequisite: None

Course #710

5 Periods per week

1 Credit / Year

COURSE DESCRIPTION: This is a full year course designed for sophomores, juniors and seniors. The course begins with prenatal care and includes information about the stages of growth development of a child up to age 6. Included in the course are units on food and nutrition for the family, financial planning and management for a family, and the construction of and safety concerns with toys.

Title: Advanced Foods and Nutrition

Grades: 10, 11 & 12 – Credit: Health & Wellness

Prerequisite: Introduction to Family & Consumer Sciences

(Project materials may be required to be purchased by students)

Course #715

5 Periods per week

5 Credit / Semester

COURSE DESCRIPTION: This is a semester course that further develops the ability to read and interpret recipes, proper use and care of kitchen equipment and a willingness to try new foods. Students will explore regional American foods by researching, preparing and tasting a variety of historical and ethnic foods from each geographical area. The course will also develop an understanding of and appreciation for the importance of pre-planning and cooking meals. Styles of service and table etiquette will be emphasized.

Title: Independent Living

Grades: 11 & 12 – Credit: Health & Wellness

Prerequisite: None

Course #720

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: This course is for juniors and seniors only. This one semester course involves understanding and developing your personality, communicating effectively, and learning how to make good decisions and accepting consequences. Patterns and styles of family living, friendships and healthy relationships will be discussed. The course requires completion of some projects, workbooks and tests. Textbooks, research and discussion are utilized extensively during this course.

INDUSTRIAL ARTS

Title: Wood I

Grades: 9, 10, 11 & 12 – Credit: Art

Prerequisite: None

Course #750

5 Periods per week

.5 Credit / Semester

COURSE DESCRIPTION: Woodworking will be open to all students from grades 9, 10, 11 and 12. This class will meet five periods per week for one semester. The students will be exposed to wood structure, blueprint reading, price figuring, shop safety, hand tool and machine woodworking, staining, finishing and other basic woodworking procedures. The students will have an opportunity to work with various woods, hand tools and machines necessary to cut, shape, form and finish these woods into an acceptable finished project. A project or projects must be completed in size or numbers acceptable for the amount of the time spent in shop to receive a passing grade. *Project materials must be purchased by students.*

Title: **Wood II**
Grades: 10, 11 & 12 – Credit: Art
Prerequisite: Wood I

Course #755
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Wood II will be open to all students from grades ten, eleven and twelve who have successfully completed Wood I and have shown proficiency in their ability to construct wood projects. This class will meet five class hours per week for the entire year. Students will receive advanced instruction in many procedures covered in Wood I with special emphasis on selective machine cutting procedures. A special emphasis will also be given to design, planning, technique and craftsmanship in the construction of wood furniture. A project or projects must be completed in size or numbers, acceptable for the amount of the time spent in shop to receive a passing grade. Project materials must be purchased by the students.

DRIVING

Title: **Defensive Driving**
Grades: 10, 11 & 12 – Credit: Elective
Prerequisite: None

Course #800
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: Defensive Driving consists of the classroom and theory course which is offered in 10th, 11th and 12th grade. It consists of information on the various phases of driving such as pre-driving checks and procedures, use of safety devices, defensive driving, vehicle maintenance, map reading and trip planning, efficient driving, plus a preparation of the student for his / her Pennsylvania driver's license. Each student will receive at least thirty hours of classroom instruction.

HEALTH & PHYSICAL EDUCATION

Title: **Health I**
Grades: 9 – Credit: Health & Wellness
Prerequisite: None

Course #805
3 Periods per week
.3 Credit / Semester

COURSE DESCRIPTION: Health I is a required course offered to ninth grade students. The course develops the student's understanding of the developmental tasks leading to healthy adulthood – physically, socially, mentally and emotionally. Students must pass Health I to advance to Health II. Both Health I and Health II are required for graduation.

Title: **Health II**
Grades: 10 – Credit: Health & Wellness
Prerequisite: Health I

Course #810
2 Periods per week
.2 Credit / Semester

COURSE DESCRIPTION: Health II will cover topics related to rest, exercise, recreation, cardiovascular and respiratory systems, movement and coordination, mental disorders and suicide. Health II is required for graduation.

Title: **Physical Fitness 9**
Grades: 9 – Credit: Health & Wellness
Prerequisite: None

Course #806 / 807
2 Periods per week
.2 Credit / Semester

COURSE DESCRIPTION: All ninth grade students are required to take this basic course in physical education stressing participation and mastery of fundamental techniques in individual and team sports such as soccer, volleyball, tennis, basketball and softball. Physical Fitness tests will be used for this class. Students must pass to advance to Physical Fitness 10. Both Physical Fitness 9 and Physical Fitness 10 are required for graduation unless exempted by a medical exception approved by administration.

Title: **Physical Fitness 10**
Grades: 10 – Credit: Health & Wellness
Prerequisite: Physical Fitness 9

Course #811 / 812
3 Periods per week
.3 Credit / Semester

COURSE DESCRIPTION: All tenth grade students are required to take this basic course in physical education stressing participation and mastery of fundamental techniques in individual and team sports such as soccer, volleyball, tennis, basketball and softball. Physical Fitness tests will be used for this class. Physical Fitness 10 is required for graduation unless exempted by a medical exception approved by administration.

Title: **Athletic Training I**
Grades: 10, 11 & 12 – Credit: Health & Wellness
Prerequisite: Physical Fitness 9

Course #815
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: This course is an introduction to the field of athletic training. Students will gain a basic knowledge of injury classification, human anatomy, injury care, injury prevention and taping techniques. Students who complete this course will be certified in CPR and AED. In addition, students in this course may take the opportunity to work in the training room after school. Students will greatly benefit from being in all assigned class periods each week.

Title: **Athletic Training II**
Grades: 11 & 12 – Credit: Health & Wellness
Prerequisite: Physical Fitness 9 & Athletic Training I

Course #820
5 Periods per week
.5 Credit / Semester

COURSE DESCRIPTION: This course provides a more in-depth look at human anatomy, injury evaluation and rehabilitation. A “hands on” lab will be conducted in the training room once a week to allow students to practice their skills. CPR and AED certification with professional rescuer will be included. In addition, students enrolled in this course will have the opportunity to work in the training room under the supervision of the certified athletic trainer. This course is designed for students with an interest in pursuing careers in the medical field (i.e. athletic training, physical therapy, nursing, etc.). Students taking this course are expected to be in all assigned classes each week.

GIFTED STUDY

Title: **9th – Introduction to Logic**
Grades: 9 – Credit: Elective
Prerequisite: None

Course #954
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: Introduction to Logic is a year long introductory course for freshmen in the arts of critical thinking, discussion, research and analysis. Through a variety of academically advanced readings and projects, students will begin a comprehensive liberal arts education that will prepare them for their undergraduate experience.

Title: **10th / 11th* – Postcolonial Studies / Humanities Seminar**
Grades: 10 & 11 – Credit: Elective
Prerequisite: Introduction to Logic
* Weighted course for 11th grade only

Course #955
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: This is where the skills learned in Introduction to Logic are put into practice. We will explore various areas of interest, using a text as focus, to get a sense of the interpenetration between various fields of knowledge. An emphasis will be placed on discussion, writing, research and debate.

Title: **12th – World Philosophy***
Grades: 12 – Credit: Elective
Prerequisite: Postcolonial Studies / Humanities Seminar

Course #960
5 Periods per week
1 Credit / Year

COURSE DESCRIPTION: The culmination of the Gifted Program, World Philosophy, is an introduction to philosophy. Here students may grapple with the great questions of the ages, from the meaning of our existence to the very nature of what truth itself. Text: Philosophy, An Introduction to the Art of Wondering

ADMINISTRATION & FACULTY

Principal

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M.A. Univ. of South Florida

Assistant Principal

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M.S., Univ. of Scranton
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M. S., Bloomsburg Univ.

Athletic Director

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M.A., LaSalle Univ.

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Sandra Lendacki
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Anne Moll
B.A. Alverina University
Maryellen Monaghan
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