Boyertown Area Senior High School

2012-2013

TABLE OF CONTENTS

MISSION STATEMENT OF THE BOYERTOWN AREA SCHOOL DISTRICT

To enable all students to succeed in a changing world.

LETTER FROM THE PRINCIPALS

Dear Students and Parents/Guardians:

This Program of Studies has been designed to assist students and their parents/guardians to develop a meaningful and sequential educational program. Students should select courses based on their educational and career plans.

For students entering ninth grade, it is important to consider the sequence of courses in grades 9-12 so that graduation requirements are fulfilled. In this publication, a special ninth grade section is attached to the 10-12 Program of Studies. We encourage students and parents/guardians to review those sections which pertain to the development of their education program.

We ask that students and parents/guardians carefully consider the options available along with the recommendations made by teachers on the course selection card. Teachers, counselors, and administrators are available to help with this process.

Andrew C. Ruppert	Gregory S. Galtere	Brett A. Cooper
Principal	Principal	Principal
Junior High-East Center	Junior High-West Center	Senior High

PURPOSE AND FORMAT OF THE CATALOGUE

This catalogue describes the planned courses available to BASH students. The purpose of the Program of Academic Studies is to assist students and parents/guardians in selecting courses most beneficial and relevant to each student's post high school plans. This catalogue is composed of four sections:

- Pages 1 – 11 General information
- Pages 12 – 22 Course lists (by department)
- Pages 23 – 54 Course descriptions (by department)
- Pages 55 – 65 Subject area sequence charts

Each course has been assigned an academic level number ranging from 1 to 5. These numbers refer to levels of difficulty. Number 1 refers to areas of least difficulty, number 5 represents the highest level of difficulty. It is always recommended that students select courses which offer the greatest degree of challenge, yet permit success.

CHAPTER 4/PENNSYLVANIA ACADEMIC STANDARDS AND PSSA PENNSYLVANIA SYSTEM OF SCHOOL ASSESSMENT

On January 16, 1999 the Pennsylvania State Board of Education passed Chapter 4: Curriculum Regulations. This action established academic standards in reading, writing, speaking, listening and mathematics. At this time, academic standards have now been adopted in most areas. Academic standards define what students should know and be able to do.

The Boyertown Area School District has been working with these standards and is working on a continuous improvement cycle to revise curriculum to align with them.

ASSURANCE OF NON-DISCRIMINATION

Students and parents/guardians are assured that the Boyertown Area School District does not discriminate on the basis of race, religion, ethnic heritage, sex, or handicap in its educational programs or activities offered in the schools.

Any complaints alleging such discrimination should be directed to the responsible persons with the following procedure:

1. Complaints alleging discrimination on the basis of race, religion, ethnic heritage, or handicap (Title VI and/or Section 504) should be presented in writing to the building principal, Boyertown Area Senior High School, 120 North Monroe Street, Boyertown, PA 19512 (610-369-7435).

2. Complaints alleging sex discrimination (Title IX) should be presented in writing to the Assistant to the Superintendent for Human Resources, Boyertown Area School District, 911 Montgomery Avenue, Boyertown, PA 19512 (610-367-6031).

3. Students with limited English language skills are not excluded from any program offerings (OCR Guidelines SS-4-L). Students needing assistance should contact the building principal, Boyertown Area Senior High School, 120 North Monroe Street, Boyertown, PA 19512 (610-369-7435) so that help or interpretations may be provided.

Appeals generated by the response of the first-level hearing officer may be taken to the Office of the Superintendent.

SCHOOL COUNSELING DEPARTMENT

COUNSELING ASSISTANCE

Course selection places great responsibility on students to work cooperatively with their parents/guardians and school counselor. A cooperative effort will aid in interpreting one's abilities, talents and interests in order that the proper educational and vocational goals may be achieved.

The Counseling Department of Boyertown Area Senior High School, staffed with four counselors, is prepared to assist with the course selection process. Although students meet with their counselors at various times to discuss course selections, parents/guardians are encouraged to contact the counselor for assistance and advice. Counseling aid can provide the necessary background information for wise decision-making.

Counselors for the 2012-2013 academic school year are:

TBD	610-473-3693	Counselor (A to E)
Mrs. Beth Shive	610-473-3696	Counselor (F to K)
Ms. Sandra Gallagher	610-473-3694	Counselor (L to Rh)
Ms. Christy Meitzler	610-473-3692	Counselor (Ri to Z)
Mrs. Wilma Schaeffer	610-473-3695	Counseling Department Secretary
Mrs. Susie Groff	610-473-3691	Career Resources Assistant

COUNSELING DEPARTMENT RESOURCES

Various computer search programs such as Career Cruising are available for student use. In addition, we have access to web-based programs related to colleges, financial aid, and career exploration.

Catalogs, videos and academic bulletins for numerous four-year and two-year colleges, trade and technical schools, community colleges, business schools, nursing schools, and other specialty schools are available in-house or can be signed out for home use. An extensive career and occupational library is also accessible in the Counseling Office.

The above resources are available by appointment during regular school hours. Periodic evening programs are scheduled throughout the school year as well.

TESTING PROGRAMS FOR COLLEGE ADMISSIONS

Students of Boyertown Area Senior High School planning to attend college should take part in the various college admission testing programs that are offered throughout the year. As most colleges require information from these tests, it is important that college-bound students become thoroughly familiar with the programs early in their high school careers.

School Counselors will assist in learning more about the admissions testing programs listed below:

PSAT/NMSQT The Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test, or the PSAT/NMSQT, is a test that is taken by high school juniors and sophomores. It is given at Boyertown Senior High School once each year in October. Students who wish to be considered in the National Merit Scholarship Competition must take this test in their junior year.

ACT The American College Testing Program (ACT) is made up of a test battery that includes four tests, a Student Profile section, and high school grades that you report yourself. Both high school juniors and seniors may take the ACT Test Battery, which is given five times a year on Saturdays. (Dates and locations for this test are available to students each September in the Counseling Office.)

SAT REASONING TEST The Scholastic Assessment Test (SAT) is a test which is taken by both high school juniors and seniors. The SAT is part of the College Board's Admission Testing Program (ATP). SAT tests are offered at Boyertown in November and March. Additional dates and locations for this test are available to students in the Counseling Office.

SUBJECT TESTS The Subject Tests are hour-long, subject-specific tests that may be required by some colleges. They differ from aptitude tests in that they test you on what you know about a particular subject. Dates and locations are available to students in the Counseling Office.

SPECIAL NOTE: See next page for testing sites and dates. **Application forms for all standardized tests (with the exception of the PSAT) may be picked up in the Counseling Office.** They must be mailed directly to the college admissions testing program by the student at least one month prior to the exam date. All tests except the PSAT can also be registered for on-line. Students should make sure that they indicate our school code (390-390) at the time of registration so that we receive copies of their scores. The SAT website is www.collegeboard.com. The ACT website is www.act.org.

2012-2013 COLLEGE TESTING DATES

PSAT/NMSQT- October 17, 2012

SAT I and **SAT II -** The dates will be announced in June, 2012.*

*Boyertown High School will be a test center in November and March.

ACT –
September 8, 2012
October 27, 2012
December 8, 2012
February 9, 2013
April 13, 2013
June 8, 2013*

*Boyertown High School will be a test center in June.

GUIDELINES FOR COURSE SELECTION

SELECTION OF COURSES

During the registration period, each student should carefully select those subjects that will comprise his/her schedule for the following school year. Students are encouraged to seek assistance and advice from their parent/guardians, teachers, and counselors. Once a student registers for a course, it becomes an agreement. Every effort will be made to provide the student with his/her selection; however, certain courses may be canceled due to enrollment restrictions.

Students are encouraged to follow a sequential pattern as they select courses. Students are encouraged to select their electives wisely. Electives can be used to explore career paths.

Sophomores are required to select a minimum of seven (7) credits while junior and seniors are required to select a minimum of six and a half (6.5) credits. Students are required to take four years of English, math, social studies, and physical education. Students should take challenging courses in order to better prepare themselves for their future goals. It is recommended that a student receive at least a C grade before selecting the next course in a sequence. This is especially true in mathematics, world language, advanced sciences and other sequential subjects. The school counselor and teachers should be consulted when scheduling advanced sequential courses if there is a question about successful completion of the course.

The school builds its master schedule and projects its needs on the basis of all of the courses selected by approximately 1,750 students. Therefore, once completed, **student course selections will be considered final unless the selections fail to prepare the student for minimum graduation requirements or fail to meet curricular program requirements**.

Course availability for non-required, elective courses is determined by sufficient student selection and/or staff availability. **Insufficient subscription or staffing constraints could cause a course to become unavailable after the initial scheduling selection process.**

SCHEDULE CHANGES

Students are requested to give considerable thought in selecting courses. All students are expected to continue and complete the courses selected. Adequate schedule planning for students, teachers, and classroom space can be completed only when school officials can consider students' schedule requests to be final and binding. There will be times when a change is necessary. The special circumstances that often precipitate a schedule change are: course failures from previous semesters/term, changing to a course with a higher degree of difficulty in the same subject area, new student arrival, senior graduation requirement fulfillment, and/or some other extenuating circumstance. An administrative withdrawal is a rare but existing option. This option is often a disciplinary/academic decision. It involves withdrawing a student from a course and that student receiving a failing grade for the course.

Changes to course requests must be made prior to the last day of school. After the last day of school all requests are considered final.

SCHEDULING REQUIREMENTS

The first step in building a satisfactory student schedule is to determine what requirements must be met. The following pages list these specific requirements including:

- Six-Day Cycle and Class Load
- Career Portfolio
- End-of-Course Assessments (EOCAs)
- Graduation Credit Requirements
- Promotion Policy Guidelines
- Courses Required of All Students

SIX-DAY CYCLE AND CLASS LOAD

Students must select activities which will fill 40 or more periods out of a six-day cycle of 48 class periods each semester. This will limit students to no more than 8 study halls in a cycle. If a student schedules fewer than 40 periods, it is possible that promotion will be jeopardized for lack of credits.

CAREER PORTFOLIO

All students of Boyertown Area Senior High School are to complete a career portfolio as a graduation requirement. Students utilize Career Cruising, a web-based program designed to provide meaningful career oriented experiences. The portfolio process will provide every student maximum opportunities to research careers and come to an educated, informed decision as to what next steps need to be taken to ensure success beyond high school. In order to assist in the process, high school staff members will be assigned to groups of students as portfolio advisors. The advisor will meet with the students throughout the year and during established checkpoints to assess progress toward completion of yearly goals. Information regarding specific portfolio requirements can be found on the district website.

END-OF-COURSE ASSESSMENTS (EOCAs)

EOCAs are being administered as part of our district's assessment plan to measure what we want students to know and be able to do at the end of each course. We also believe that EOCAs will better prepare our students for the state's upcoming Keystone Exams as well as post-secondary experiences.

Administration of EOCAs

The administration of the EOCAs will occur as follows:

- All **core courses**, including English, Reading, Math, Science, Social Studies and World Languages, in grades 7-12 will administer an EOCA.
- **Related studies courses**, including art, music, health and physical education, business education, technology education and family and consumer science, will administer an EOCA beginning in grade 9. The end-of-course assessment will be administered during class time.

Weight of EOCA grade

- The "weight" of the EOCA will be as follows:
    - 9-12: one-fifth of the overall course grade

Administration Schedule of EOCAs

- All courses that are fall semester-based courses will have their EOCA administered during regularly scheduled class times at the conclusion of the course in the fall.
- Related studies courses that are spring semester-based course will have their EOCA administered during regularly scheduled class times at the conclusion of the course in the spring.
- EOCAs for core courses will be administered during the last week of school following a specially designed schedule to be provided by the building principal.

KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed by the state of Pennsylvania to assess proficiency in the subject areas of Algebra I, Algebra II, Geometry, Literature, English Composition, Biology, Chemistry, U.S. History, World History, and Civics and Government.

The Keystone Exams are one component of Pennsylvania's new system of high school graduation requirements. Keystone Exams will help school districts guide students toward meeting state standards – standards aligned with expectations for success in college and the workplace. In order to receive a diploma, students must also meet local district credit and attendance requirements and complete a culminating portfolio project, along with any additional district requirements.

For the graduation classes of 2015 and 2016, students must demonstrate successful completion of secondary-level course work in Algebra I, Biology, Literature, and English Composition, in which the Keystone Exam serves as a measure of their proficiency with this content. More information on Keystones will be provided.

GRADUATION REQUIREMENTS

A minimum of 24 credits accumulated in grades 9 through 12 (except for these students in an early graduation or early admission to college program) is required for graduation from Boyertown Area Senior High School. Students are also required to complete a Career Cruising Portfolio. Graduation from Boyertown Area Senior High School involves the fulfillment of the following items:

<u>Minimum</u> number of courses/credits needed for graduation

SUBJECT	SPECIFIED AS	CREDITS
English	The equivalent of four year-long courses in grades 9-12	4.0
Social Studies	The equivalent of four year-long courses in grades 9-12	4.0
Science*	Three year-long courses in grades 9, 10, 11, or 12	3.0
Mathematics	Four year-long courses in grades 9, 10, 11, or 12	4.0
Health & Wellness	Two planned courses, one each in grades 10 and 12	1.08
Physical Education***	Four planned courses, one each in grades 9-12	1.32
Electives (See Course Description Section)		
Arts and Humanities	Two planned courses in grades 9-12	1.0
Computer Applications**	Two planned courses in grades 9-12	.83
Open Electives	At least four planned courses	5.92/4.92
	Total credits must equal or exceed	24.0

* Students who plan on attending a four year college/university are encouraged to take four courses.

** One planned course that includes significant computer application. A computer applications course is one which integrates the use of the computer into the instruction. The second planned course may be accredited through demonstration of advanced computer skill on a computer applications test. It will consist of spreadsheet/database/word processing (must pass two of three) or advanced applications such as CADD, Internet or Desktop Publishing. See your counselor for courses that count toward computer applications planned course requirement.

*** NJROTC courses satisfy physical education requirement for 11th and 12th grade.

PROMOTION POLICY GUIDELINES

Students entering BASH from ninth grade (freshman year) should have earned a minimum of 5.5 credits including .5 credit in physical education and one credit in each of the following core content areas:

English
Math
Science
Social Studies

<u>Suggested credit attainment:</u> In order to be eligible to graduate within three years (10-11-12) at BASH, it is recommended that you carry and pass the following minimum number of credits, accumulating them as follows:

9th Grade – 5.5 credits = 5.5 credits
10th Grade – 7 credits = 12.5 credits
11th Grade – 6.5 credits = 19.0 credits
12th Grade – 6.5 credits = 25.5 credits

A student is eligible for graduation at the end of his/her twelfth grade school year when all graduation requirements are fully completed.

If a student fails to accumulate 24 credits, complete his/her career portfolio or BCTC senior project graduation requirement, and other requirements set forth by the state of Pennsylvania by the end of the twelfth grade school year, he/she will be reassigned the following year to a twelfth grade homeroom and will continue to be considered a senior. It is possible for a student to be assigned to twelfth grade for multiple years until the requirements for graduation are attained.

GRADUATION EXERCISE

Graduation Note: A senior who has not fully met all graduation requirements by the end of the senior year MAY NOT BE ELIGIBLE TO PARTICIPATE IN GRADUATION EXERCISES/ CEREMONIES with his/her class. A senior who has not fully met all graduation requirements by the end of the senior year (and hence is denied participation in graduation exercises) shall be awarded a diploma privately upon completion of the requirements in the summer school immediately following, providing all such requirements can be met during the summer session. If the requirements are not met by the end of summer school immediately following, the student can become eligible for a Boyertown diploma only through a regular school program in subsequent years. *If you do not pass all of the required courses in a given year, it is strongly recommended that as many classes as possible be made up in summer school that year.*

COURSES REQUIRED OF ALL STUDENTS

GRADE 10

SUBJECT	CREDIT
English (Two semesters)	1.00
Social Studies (Modern World Studies)	1.00
Biology/General Science	1.00 or 1.17
Math	1.00
Health & Physical Education	0.83
Electives (Computers, etc.)	Varies

GRADE 11

English (Two semesters)	1.00
Social Studies (Modern American Studies 1898 to Present)	1.00
Science	1.00 or l.17
Math	1.00
Physical Education/NJROTC	0.33/1.00
Electives	Varies

GRADE 12

English (Two semesters)	1.00
Social Studies (Government/Economics)	1.00
Math	1.00
Wellness	0.25
Physical Education/NJROTC	0.33/1.00
Electives	Varies

GIFTED PROGRAM

The purpose of the gifted enrichment program is to provide academically gifted students with opportunities to further develop skills which will aid them in realization of the maximum potential of their talents. Before entering this program, each student must meet eligibility requirements as established by the Commonwealth of Pennsylvania and the Boyertown Area School District. The Gifted Individualized Education Plan (GIEP) for students in the gifted program includes the two following options:

- Option 1 – Gifted Enrichment Seminar (EHOC-2101):

  Students can choose to participate in the offered enrichment seminar course (EHOC) provided by the gifted program throughout the course of the school year. Students must satisfactorily participate in four enrichment seminars out of the provided eight (one per quarter) throughout the course of the school year to earn the one-half credit offered for the course. Students should be reminded that some seminars may be scheduled/offered outside of mandatory school days, such as on Saturday or in-service day. Students will be graded "Passed (P)" or "Failed (F)" for this seminar course. This seminar course will carry one-half credit for a "Passing (P)" grade; however, will not be part of the calculation of grade-point average or class rank. As with all courses, a "Failing (F)" grade would deny the student academic recognition on the quarterly honor roll.

- Option 2 - Boyertown Area Senior High (BASH) Advanced Placement, Dual Enrollment, & Honors level course participation:

  Advanced Placement (AP), Dual Enrollment (DE), and Honors level courses are offered to all students at BASH. Students with a Gifted Individualized Education Plan (GIEP) are strongly encouraged to participate in selecting these course options for their high school course of study. Credits for these courses vary depending upon number of days the seat time is for the course in a six-day cycle. AP and Honors courses carry weightedness in cumulative GPA calculations. DE course provide students with the opportunity to gain college credits while simultaneously earning the designated high school credits for each particular DE course.

Students in the gifted program can choose to participate in both options one and two, just option one, or just option two. Gifted program participants will need to schedule courses accordingly during the designated scheduling time-frame.

HONORS AND ADVANCED PLACEMENT COURSES

The Honors and Advanced Placement (AP) program is intended for responsible, motivated, and self-directed students who are interested in an enriched and accelerated experience in a specific subject area. A student must have the ability and desire to cope with the increased academic demands and requirements of these courses. Students who complete an AP course are given the option of taking the AP examination for college credit.

Advanced Placement Examinations are offered annually to give high school students opportunities to demonstrate college-level achievement. Students who successfully complete the AP exams *may* receive the following benefits:

1. Advanced Placement provides the college bound student with the maximum preparation for college course work.
2. Exemption by your college or university from beginning courses and permission to take higher level courses in certain fields.
3. Tuition savings may be given for an AP qualifying grade of 3 or higher.
4. Eligibility for honors and other special programs open to students who have received AP recognition.

Weighted Grades for Honors and Advanced Placement Courses

1. The final grade-point-average (GPA) of a student for each full year Honors or Advanced Placement (AP) course in which the student has achieved at least a grade of B- will be raised 0.1
2. The final grade-point-average (GPA) of a student for each semester honors course in which the student has achieved at least a grade of B- will be raised 0.05.

NOTE: Weightedness is pro-rated on a quarterly basis.

ELIGIBILITY RECOMMENDATIONS FOR HONORS AND ADVANCED PLACEMENT COURSES

In each subject area in which the student selects Honors or AP classes, he/she must have consistently earned report card grades of B or higher in previous honors courses, or A's in regular academic classes. Teacher recommendation is also required. Individual departments may have additional requirements listed with their courses.

ADVANCED PLACEMENT COURSE OFFERINGS:

AP Biology
AP Calculus – AB
AP Calculus – BC
AP Chemistry
AP Computer Science
AP Economics
AP Literature & Composition
AP Language & Composition
AP Environmental Science
AP European History
AP Music Theory
AP Physics – C
AP Statistics
AP Studio Art
AP U.S. History

EARLY ADMISSION TO COLLEGE

A student may plan a program to allow for admission to college at the conclusion of the second year of high school. The plan must be developed and approved prior to the entry of the student into the eleventh grade. Parents of a student interested in developing an early admission to college program should contact the school counselor prior to registration to ascertain requirements and procedures.

DUAL ENROLLMENT COURSES

Dual enrollment, referred to as “concurrent enrollment” in the School Code, is an effort by the Commonwealth to encourage a broader range of students to experience postsecondary coursework and its increased academic rigor, while still in the supportive environment of their local high school. The intent is to increase the number of students that go on to postsecondary education and to decrease the need for remedial coursework at postsecondary institutions.

Dual enrollment is a locally administered program that allows a secondary student to concurrently enroll in postsecondary courses and to receive both secondary and postsecondary credit for that coursework. The local programs are run through partnerships between school entities and eligible postsecondary institutions. Potential Dual Enrollment courses will be identified in the Course Descriptions section of this booklet. Additional mailings may be provided in the Spring with regards to course offerings.

THE CAREER-TECH PROGRAM

This is a program for students planning career-technical training. Students taking these courses will attend one of the Berks Career and Technology Centers half the school day and Boyertown Area Senior High for the other half.

EAST CENTER - Oley

AM Course #	Subject	PM Course #	Credit
9051 AM	Auto Collision Repair Technology	9061 PM	3.00
9071 AM	Automotive Technology	9081 PM	3.00
9351 AM	Building Construction Occupations	9361 PM	3.00
9111 AM	Cabinetmaking	9121 PM	3.00
9091 AM	Carpentry	9101 PM	3 00
9161 AM	Cosmetology	9171 PM	3.00
9261 AM	Culinary Arts	9271 PM	3.00
9201 AM	Dental Occupations *	9211 PM	3.00
9215 AM	Diesel Technology	9216 PM	3.00
9031 AM	Drafting Design Technology**	9041 PM	3.00
9221 AM	Electrical Occupations *	9231 PM	3.00
9291 AM	Health Occupations *	9301 PM	3.00
9295 AM	Health Related Technology *	9296 PM	3.00
9631 AM	Heavy Equipment Technology	9671 PM	3.00
9541 AM	Horticulture	9551 PM	3 00
9611 AM	IT Networking **	9281 PM	3.00
9371 AM	Masonry	9381 PM	3 00
9297 AM	Medical Health Professions	N/A	3.00
9501 AM	Occupational Child Development	9511 PM	3.00
9421 AM	Plumbing and Heating	9431 PM	3.00
9651 AM	Protective Services	9661 PM	3.00
9561 AM	Service Occupations	9572 PM	3.00

MATH REQUIREMENTS: Programs marked with (**) carry a prerequisite academic math of a minimum of College Prep (CP) Algebra I upon enrollment. Programs marked with (*) carry a recommendation of a minimum of Algebra I upon enrollment.

The following BCTC EAST classes count as a computer credit towards graduation requirements:

Auto Technology
Diesel Technology
Drafting Design Technology
Health Related Technology
Heavy Equipment Technology
IT Networking
Technology-Based Entrepeneurship

WEST CENTER - Leesport

AM Course #	Subject	PM Course #	Credit
	Advertising Art & Design Technology	9321 PM	3.00
	Cinematography & Film Video Production	9583 PM	3.00
	Communication Media Technology	9681 PM	3.00
	Electronic Technology **	9251 PM	3.00
	Graphic Imaging Technology	9641 PM	3.00
	HVAC *	9021 PM	3 00
	IT Programming	9191 PM	3.00
	Mechatronics Engineering Technology	9461 PM	3.00
	Painting and Decorating	9411 PM	3.00
	Photo Imaging Technology	9151 PM	3.00
	Precision Machining Technology *	9341 PM	3.00
	Protective Services – Firefighting	9451 PM	3.00
	Rec/ Power Equip Technology	9601 PM	3.00
	Robotics and Automation Technology**	9591 PM	3.00
	Technology-Based Entrepreneurship	9582 PM	3.00
	Welding Technology	9471 PM	3.00

MATH REQUIREMENTS: Programs marked with (**) carry a prerequisite academic math of a minimum of College Prep (CP) Algebra I upon enrollment. Programs marked with (*) carry a recommendation of a minimum of Algebra I upon enrollment.

The following BCTC WEST classes count as a computer credit towards graduation requirements:

Advertising Art & Design
Cinematography & Film Video Production
Communication Technology
Electronic Technology
Graphic Imaging Technology
IT Programming
Mechatronics
Photo Imaging Technology
Precision Machining Technology
Robotocis and Automation Technology
Technology-Based Entrepreneurship

NCAA ELIGIBILITY CENTER
QUICK REFERENCE SHEET

NCAA Eligibility Center

Core Courses

- **NCAA Division I requires 16 core courses**. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II currently requires 14 core courses.** Division II will require 16 core courses for students enrolling on or after August 1, 2013. See the breakdown of core-course requirements below.

Test Scores

- **Division I** uses a sliding scale to match test scores and core grade-point averages. The sliding scale for those requirements is shown on page two of this sheet.
- **Division II** requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

Grade-Point Average

- **Be sure** to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Use the list as a guide.
- Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core grade-point average. Use the list as a guide.
- **Division I** core grade-point-average requirements are listed on the sliding scale on Page No. 2 of this sheet.
- **The Division II** core grade-point-average requirement is a minimum of 2.000.
- Remember, the NCAA grade-point average is calculated using NCAA core courses only.

DIVISION I
16 Core Courses

4	years of English.
3	years of mathematics (Algebra I or higher).
2	years of natural/physical science (1 year of lab if offered by high school).
1	year of additional English, mathematics or natural/physical science.
2	years of social science.
4	years of additional courses (from any area above, foreign language or comparative religion/philosophy).

DIVISION II
14 Core Courses

3	years of English.
2	years of mathematics (Algebra I or higher).
2	years of natural/physical science (1 year of lab if offered by high school).
2	years of additional English, mathematics or natural/physical science.
2	years of social science.
3	years of additional courses (from any area above, foreign language or comparative religion/philosophy).

DIVISION II
16 Core Courses
(2013 and After)

3	years of English.
2	years of mathematics (Algebra I or higher).
2	years of natural/physical science (1 year of lab if offered by high school).
3	years of additional English, mathematics or natural/physical science.
2	years of social science.
4	years of additional courses (from any area above, foreign language or comparative religion/philosophy).

NCAA DIVISION I SLIDING SCALE CORE GRADE-POINT AVERAGE/ TEST-SCORE		
Core GPA	**SAT** Verbal and Math ONLY	**ACT**
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

For more information, visit the NCAA Eligibility Center website at www.eligibilitycenter.org.

2012-2013
Program of Studies
B.A.S.H.
COURSE LIST

Key to Course Number Prefix

Y = Full Year Course
S = Semester Course

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
ART (Course descriptions may be found on pages 24 - 28)							
1014	Introduction to Drawing	S	10,11,12	1-5	0.50	6	
1018	Intermediate Drawing	S	11,12	1-5	0.50	6	Introduction to Drawing
1022	Advanced Drawing (Dual Enrollment Option)	S	11,12	1-5	0.50	6	Intermediate Drawing
1040	Introduction to Ceramics	S	10,11,12	1-5	0.50	6	
1044	Intermediate Ceramics	S	11,12	1-5	0.50	6	Introduction to Ceramics
1048	Advanced Ceramics	S	11,12	1-5	0.50	6	Inter. Ceramics & teacher rec.
1052	Introduction to Weaving	S	10,11,12	1-5	0.50	6	
1054	Intermediate Weaving	S	11,12	1-5	0.50	6	Introduction to Weaving
1056	Advanced Weaving	S	11,12	1-5	0.50	6	Intermediate Weaving
1060	Introduction to Painting	S	10,11,12	1-5	0.50	6	
1064	Intermediate Painting	S	11,12	1-5	0.50	6	Introduction to Painting
1068	Advanced Painting (Dual Enrollment Option)	S	11,12	1-5	0.50	6	Intermediate Painting & teacher rec.
1086	Introduction to Computer Graphics	S	10,11,12	1-5	0.50	6	
1094	Intermediate Computer Graphics	S	11,12	1-5	0.50	6	Computer Graphics
1084	Advanced Computer Graphics	S	11,12	1-5	0.50	6	Intermediate Computer Graphics
1088	Mixed Media Design I	S	10,11,12	1-5	0.50	6	
1090	Mixed Media Design II	S	11,12	1-5	0.50	6	Mixed Media Design I
1096	Animation I	S	10,11,12	1-5	0.50	6	Computer Graphics
1098	Animation II	S	11,12	1-5	0.50	6	Animation I
1099	Advanced Placement Studio Art	Y	11,12	5	1.00	6	Intro to Drawing and High School Art Teacher Recommendation.
1092	Independent Study – Art	S	11,12	1-5	0.50	6	Dept. leader approval

Program of Studies Course List

Course No.	Course Name	Qtr. Sem Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
BUSINESS & COMPUTER SCIENCE (Course descriptions may be found on pages 28-29)							
1242	Business Law	S	10,11,12	1-5	0.50	6	
1243	Entrepreneurship & Business Management	S	10,11,12	1-5	0.50	6	
1249	Retail Management	S	10,11,12	1-5	0.50	6	
1252	Honors Accounting	Y	10,11,12	4-5	1.00	6	'B+' average in mathematics
1251	Academic Accounting I	Y	10,11,12	3-4	1.00	6	'C+' average in mathematics
1261	Academic Accounting II	Y	11,12	3-4	1.00	6	'B' average in Accounting I
1256	Sports & Entertainment Marketing	S	10.11.12	1-5	0.50	6	
1258	International Business	S	10,11,12	1-5	0.50	6	
0862	Independent Study – Business	S	10,11,12	3-5	0.50	6	Dept. leader approval
COMPUTER COURSES - Computer courses are offered through the Business and Tech. Ed. Departments, and are taught on both IBM and Macintosh computers. (Course descriptions may be found on pages 30 - 31)							
0864	Basic Computer Skills	S	10,11,12	1-3	0.50	6	Teacher/School Counselor recommended
0874	Microsoft WORD MOS Certification Course	S	10,11,12	3-5	0.50	6	
0886	Microsoft EXCEL MOS Certification	S	10,11,12	3-5	0.50	6	
0888	Microsoft POWERPOINT and ACCESS MOS Certification	S	10,11,12	3-5	0.50	6	
0875	Honors JAVA Programming	Y	10,11,12	4-5	1.00	6	Honors Algebra II, or Honors Geom.
0866	Web Design	S	11,12	3-5	0.50	6	Word Processing
0868	Video Game Design	S	11,12	3-5	0.50	6	Honors Algebra II or Honors Geometry
CIS110	Computer Applications (DE)	Y	11,12	5	1.00	6	
0882	Advanced Computer Applications	S	11,12	3-5	0.50	6	
0884	Advanced Word Processing	S	11,12	3-5	0.50	6	Word Processing (0874)
0869	Advanced Placement Computer Science	Y	11,12	5	1.00	6	'B+' average in Honors JAVA Programming

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
ENGLISH/LANGUAGE ARTS (Course descriptions may be found on pages 32 – 35)							
0447	Honors English 10	Y	10	4-5	1.00	6	See course description.
0446	Academic English 10	Y	10	3-4	1.00	6	
0457	Honors English 11	Y	11	4-5	1.00	6	See course description.
0450	Academic English 11	Y	11	3-4	1.00	6	
0473	Honors: Utopia & Dystopia: Fall/Spring	S	12	4-5	0.50	6	See course description
0472	Academic: Utopia & Dystopia: Fall/Spring	S	12	3-4	0.50	6	
0475	Honors: Identity: Fall/Spring	S	12	4-5	0.50	6	See course description.
0474	Academic: Identity: Fall/Spring	S	12	3-4	0.50	6	
0477	Honors: Literature for Social Change: Fall/Spring	S	12	4-5	0.50	6	See course description.
0476	Academic: Literature for Social Change: Fall/Spring	S	12	3-4	0.50	6	
0498	Honors Research Paper/English Literature II: Fall/Spring	S	12	4-5	0.50	6	See course description.
0494	Academic Research Paper/English Literature II: Fall/Spring	S	12	3-4	0.50	6	
0499	Advanced Placement English Literature and Composition	Y	12	5	1.00	6	See course description.
0489	Advanced Placement English Language and Composition	Y	11,12	5	1.00	6	See course description.
ENG101/ ENG102	English Composition (DE)	Y	12	4-5	1.00	6	Community College Placement Test ‘C’ or better in ENG101
ENG101/ ENG115	English Composition/Technical Writing (DE)	Y	12	3-4	1.00	6	Community College Placement Test ‘C’ or better in ENG101;
0404	Foundations of Literacy: Fall/Spring	S	12	3-4	0.50	6	
2271	Language! (LS Only)	Y	10,11,12		1.00	6	

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
ENRICHMENT HONORS (Course description may be found on page 6)							
2101	Enrichment Seminar (EHOC)	Y	10,11,12	5	0.50		
FAMILY AND CONSUMER SCIENCES (Course description may be found on pages 35-36)							
1344	The Preschool Program I	S	10,11,12	1-5	0.50	6	
1346	The Preschool Program II	S	10,11,12	1-5	0.50	6	Preschool Program I
1356	The Preschool Program III	S	11,12	1-5	0.50	6	Preschool Program II
1376	Culinary Essentials	S	10,11,12	1-5	0.50	6	
1378	Parenting and Child Development	S	10,11,12	1-5	0.50	6	
1380	World Cuisine	S	11,12	1-5	0.50	6	Culinary Essentials
ESW206	Basic Nutrition (DE)	S	11,12	1-5	0.50	6	Community College Placement Test
1360	Independent Study – FCS	S	10,11,12	1-5	0.50	6	Dept. leader approval
HEALTH AND PHYSICAL EDUCATION (formerly Wellness/Fitness) (Course descriptions may be found on pages 37 - 39)							
0241	Health & Physical Education	Y	10	1-5	0.83	5	
0270	Outdoor Education	S	11,12	1-5	0.33	5	
0272	Sports Psychology	S	11,12	1-5	0.25	3	
0274	CPR/First Aid	S	11,12	1-5	0.25	3	
0276	Tactics of Net Games	S	11,12	1-5	0.33	5	
0278	Tactics of Team Games	S	11,12	1-5	0.33	5	
0280	Personal Fitness I	S	11,12	1-5	0.33	5	
0285	Personal Fitness II	S	12	1-5	0.33	5	Personal Fitness I
0282	Strength Training and Conditioning I	S	11,12	1-5	0.33	5	
0286	Phys. Ed. for AP Science students (Only)	S	11,12	1-5	0.33	5	
0262	Wellness 12	S	12	1-5	0.25	3	
0284	Strength Training and Conditioning II	S	12	1-5	0.33	5	Strength & Conditioning I
0263	Wellness/Fitness & Human Physiology	Y	12	3-4	0.84	5	Must also be enrolled in 0163 Human Physiology
0271	Adaptive Fitness	Y	10,11,12	1-5	0.33	2	Department or Physician's rec.
0275	CPR/First Aid (DE)	S	11,12	3-5	0.33	3	Community College Placement Test

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
MATHEMATICS (Course descriptions may be found on pages 39 - 40)							
0342	Academic Geometry	Y	10,11	3-4	1.00	6	Passed Algebra I or Algebra IB
0350	Honors Algebra II	Y	10	4-5	1.00	6	'A' in Alg. I and 'A' in Geometry and teacher recommendation
0351	Academic Algebra II	Y	11,12	3-4	1.00	6	Passed Algebra I & Geometry or in Geometry currently
0359	Honors Pre-Calculus	Y	11	4-5	1.00	6	'B' or better in Honors Geometry and 'B' or better in Honors Algebra II and teacher recommendation
0354	Academic Pre-Calculus	Y	11,12	3-4	1.00	6	Passed Algebra II & Geometry
0363	Academic Calculus	Y	11,12	4-5	1.00	6	Passed Pre-Calculus
0368	Advanced Placement Statistics	Y	11,12	5	1.00	6	'B' or better in Algebra II, a Pre-Calc. course completed/ concurrently, and teacher rec.
0360	Academic Probability and Statistics	Y	12	3-4	1.00	6	Passed a Pre-Calculus (Seniors Only)
0366	Academic Algebra III with Junior Topics	Y	11	3-4	1.00	6	Passed algebra II & Geometry, teacher recommendation (Juniors Only)
0362	Academic Algebra III with Senior Topics	Y	12	3-4	1.00	6	Passed Algebra II, Geometry and a Senior
0369	Advanced Placement Calculus – AB	Y	12	5	1.00	6	'A' in Honors Pre-Calculus and teacher recommendation
0370	Advanced Placement Calculus - BC	Y	12	5	1.00	6	A' in AP Calculus (AB) and/or teacher recommendation
0371	Independent Study - Math	Y	11,12	3-5	1.00	6	Dept. leader approval

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
MUSIC (Course descriptions may be found on pages 41 - 42)							
1140	Band/Orchestra	Y	10,11,12	1-5	1.00	6	Audition/Previous Participation
1141	Band	Y	10,11,12	1-5	1.00	6	Audition
1142	Orchestra	Y	10,11,12	1-5	1.00	6	Audition/Previous Participation
1171	Concert Choir	Y	10,11,12	1-5	0.50	3	Audition
1172	Women's Ensemble	Y	10,11,12	1-5	0.50	3	
1174	American Musical Theater	S	10,11,12	3	0.25	3	
1178	Advanced Placement Music Theory	Y	10,11,12	5	1.00	6	Music Instructor Approval
1180	Piano I	S	10,11,12	3	0.25	3	Music Instructor Approval
1181	Piano II	S	10,11,12	4	0.25	3	Piano I
1145	Independent Study – Music	Y	10,11,12	1-5	1.00	6	Dept. leader approval
NAVAL JUNIOR RESERVE OFFICERS' TRAINING CORPS (Course descriptions may be found on pages 42 - 43)							
2400	Naval Science 1	Y	10,11,12	1-5	1.00	6	
2401	Naval Science 2	Y	10,11,12	1-5	1.00	6	Naval Science 1
2402	Naval Science 3	Y	10,11,12	1-5	1.00	6	Naval Science 2
2403	Naval Science 4	Y	11,12	1-5	1.00	6	Naval Science 3
2405	Independent Study – NJROTC	Y	10,11,12	1-5	1.00	6	Dept. leader approval
SCIENCE (Course descriptions may be found on pages 44 - 46)							
0149	Honors Biology	Y	10	4-5	1.17	7	'A' in 8th & 9th grade Science
0142	Academic Biology	Y	10	3-4	1.17	7	
0159	Honors Chemistry	Y	11,12	4-5	1.17	7	See course description
0153	Academic Chemistry	Y	11,12	3-4	1.17	7	'C' in Acad. or Honors Bio. & Alg. II completed or concurrent
0150	Academic Earth Science	Y	11,12	3-4	1.00	6	See course description
0152	Academic Environmental Science	Y	11,12	3-4	1.17	7	
0154	Academic Astronomy	Y	11,12	3-4	1.00	6	
0168	Honors Physics	Y	11,12	4-5	1.17	7	'B' in Alg. II and Chem.; Trig.
0161	Academic Physics	Y	11,12	3-4	1.17	7	'C' in Alg. II and Chem.; Trig.

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
SCIENCE continued: (Course descriptions may be found on pages 44 - 46)							
0162	Advanced Placement Physics – C Mechanics	Y	11,12	5	1.17	8	'B' in Honors Chem.
0169	Advanced Placement Biology	Y	11,12	5	1.17	8	'B' in Bio; Chem.
0198	Advanced Placement Environmental Science	Y	11,12	5	1.17	7	'B' in Bio.; Chem.
0199	Advanced Placement Chemistry	Y	11,12	5	1.17	8	'B' in Chem.; Physics
0155	Astronomy (DE)	Y	11,12	3-5	1.00	6	
0197	Environmental Science (DE)	Y	11,12	3-5	1.17	7	'C' in Bio.;Community College Placement Test
0163	Human Physiology & Wellness & Fitness	Y	12	3-5	1.17	7	'C' in Chem. Must also be enrolled in Y0263 (HP Wellness/Fitness)
SOCIAL STUDIES (Course descriptions may be found on pages 46 - 48)							
0549	Honors Modern World Studies	Y	10	4-5	1.00	6	'A' in previous S.S. courses, teacher rec.
0543	Academic Modern World Studies	Y	10	3-4	1.00	6	
0548	Advanced Placement European History	Y	10	5	1.00	6	'A' in previous S.S. courses, teacher rec., 11th and 12th may take as an elective
0559	Honors Modern American Studies	Y	11	4-5	1.00	6	'A' in previous S.S. courses, teacher rec.
0553	Academic Modern American Studies	Y	11	3-4	1.00	6	
0550	Advanced Placement U.S. History	Y	11	5	1.00	6	'A' in previous S.S. courses, teacher rec., 12th may take as an elective
0569	Honors Government & Economics	Y	12	4-5	1.00	6	'A' in previous S.S. courses, teacher rec.
0563	Academic Government & Economics	Y	12	3-4	1.00	6	
0599	Advanced Placement Economics	Y	12	5	1.00	6	'A' in previous S.S. courses, teacher rec.
0582	Academic Intro to Psychology	S	11,12	3-4	0.25	3	'C' in previous S.S. courses
0584	Academic Intro to Sociology	S	11,12	3-4	0.25	3	'C' in previous S.S. courses
0588	Academic World War II	S	11,12	3-4	0.25	3	'C' in previous S.S. courses
0597	Independent Studies – Social Studies	S	11,12	3-5	.0.5	6	"B" in previous S.S. courses

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites
TECHNOLOGY EDUCATION (Course descriptions may be found on pages 48 - 50)							
1572	Photographic Imaging	S	10,11,12	1-5	0.50	6	
1574	Advanced Photographic Imaging	S	10,11,12	1-5	0.50	6	1572
1541	Digital Communications	Y	10,11,12	1-5	1.00	6	
1566	Advanced Communications	S	11,12	1-5	0.50	6	1541
1542	Technical Drawing and Design	Y	10,11,12	1-5	1.00	6	
1551	Engineering Design	Y	11,12	1-5	1.00	6	1542
1552	Architectural Design	Y	10,11,12	2-5	1.00	6	
1559	Residential Design & Modeling	S	10,11,12	2-5	0.50	5	
1544	Materials Engineering	Y	10,11,12	1-5	1.00	6	
1545	Residential Construction	Y	10,11,12	1-5	1.00	6	
1547	Technology & Engineering	Y	10,11,12	1-5	1.00	6	
1557	Technology & Engineering Advanced	Y	11,12	3-5	1.00	6	1547
1561	Technology: R & D	Y	11,12	3-5	1.00	6	1544, 1551,1552, 1557, 1566 or 1574
1576	Adaptive Technology Education	S	10,11,12	1-5	0.50	6	Life Skills or Learning Support Students Only
1581	Independent Study – Tech Ed	Y	10,11,12	1-5	1.00	6	Dept. leader approval
TELECOMMUNICATIONS (Course descriptions may be found on page 51)							
1671	Telecommunications I	Y	10,11,12	3-5	.50	3	
1681	Telecommunications II	Y	11,12	3-5	1.00	6	Telecom. I & teacher rec.
1691	Telecommunications III	Y	12	3-5	1.00	6	Telecom. II & teacher rec.
WORLD LANGUAGE (Course descriptions may be found on pages 51 - 52)							
0651	French III	Y	11,12	4-5	1.00	6	‘C’ in French II
0661	French IV	Y	12	4-5	1.00	6	‘C’ in French III
0632	German I	Y	10,11,12	3-4	1.00	6	
0642	German II	Y	10,11,12	3-4	1.00	6	Recommend ‘C’ in German I
0652	German III	Y	11,12	4-5	1.00	6	‘C’ in German II
0662	German IV	Y	12	4-5	1.00	6	‘C’ in German III
0633	Spanish I	Y	10,11,12	3-4	1.00	6	
0643	Spanish II	Y	10,11,12	3-4	1.00	6	Recommend ‘C’ in Spanish I
0653	Spanish III	Y	11,12	4-5	1.00	6	‘C’ in Spanish II
0663	Spanish IV	Y	12	4-5	1.00	6	‘C’ in Spanish III
0654	Spanish III (DE)	Y	11,12	4-5	1.00	6	‘B’ in Spanish II
0664	Spanish IV (DE)	Y	12	4-5	1.00	6	‘B’ in Spanish III

Program of Studies Course List

Course No.	Course Name	Qtr. Sem. Yr.	Grade	Acad. Level	Credits	Pds. Per Cycle	Prerequisites

MONTGOMERY COUNTY COMMUNITY COLLEGE DUAL ENROLLMENT COURSE
(Course descriptions may be found on page 54)

EDU100	Introduction to Education (Dual Enrollment)	Y	11,12	5	1.0	6	'B' in previous content courses.

NON-CREDIT ACTIVITIES DURING REGULAR SCHOOL HOURS
(Course descriptions may be found on pages 53)

3081	ACCENT – Literary Magazine	Y	10,11,12	1-5		6	
3082	BEAR - Yearbook	Y	10,11,12	1-5		6	
3083	CUB – School Newspaper	Y	10,11,12	1-5		6	
3084	FBLA - Future Business Leaders of America	Y	10,11,12	1-5		6	

INDEPENDENT STUDY PORTFOLIO GUIDELINES (Course description may be found on page 54)

2012-2013

B.A.S.H. COURSE DESCRIPTIONS

ART

It is strongly recommended that students planning a career in art take Introduction to Drawing and Multimedia Design before or simultaneously with a concentration in more specialized courses. In all multi-level courses students must take each course in the correct succession with the prerequisite being the previous level.

The following suggestions are for students who have determined that they will be focusing on a career in the arts. These suggestions should be followed to the best of the ability of the student, guidance and scheduling.

9th Grade Suggested Requirements

Advanced 3 Dimensional Design
Advanced 2 Dimensional Design

10th Grade Suggested Requirements

Introduction to Drawing
Introduction to Computer Graphics
Mixed-Media Design
And/or 1 Elective -
Electives for a specific concentration
Introduction to Ceramics or Weaving or Painting

11th Grade Suggested Requirements

Intermediate Drawing
Introduction to Painting
Intermediate Computer Graphics
And/or 1 Elective -
Electives for a specific concentration
Intermediate Ceramics or Weaving or Painting or Drawing

12th Grade Suggested Requirements

AP Art Studio or Advanced Drawing and/or Advanced Painting with Dual Enrollment Option
And/ or 2 to 3 Electives –
Electives for a specific concentration
During this year, students should take advanced classes in their area of concentration.
Intermediate or Advanced Ceramics
Advanced Weaving
Intermediate or Advanced Drawing
Intermediate or Advanced Drawing
Intermediate or Advanced Painting
Advanced Computer Graphics

1014: INTRODUCTION TO DRAWING (Foundation Course)

Students will explore the fundamentals of drawing with a wide variety of drawing media and artistic styles. Design and composition concepts will be an integral part of the instruction. The course will be centered in basic drawing methods, aesthetics, art history, and critical analysis. Drawing media may include graphite pencil, charcoal, pen and ink, colored pencils, and pastels. Some possible subject matter may include: still life, landscapes, portraiture, figure studies, and working from abstraction. All students interested in pursuing an art career should take this course.

1018: INTERMEDIATE DRAWING

Students will continue to explore drawing with a wide variety of drawing media and artistic styles. Design and composition concepts will still be emphasized as an integral part of the instruction. The course will be centered in drawing methods, aesthetics, art history, and critical analysis. Drawing media may include graphite pencil, charcoal, pen and ink, colored pencils, pastels, and mixed media. Subject matter may include: still life, landscapes, portraiture, figure studies, abstraction, and works from the imagination.
Prerequisite: Introduction to Drawing

1022: ADVANCED DRAWING (Dual Enrollment Option)

This course is designed for junior or senior students who have an interest in pursuing art studies after graduation. Interested students are eligible for transferable college credit from Montgomery County Community College upon completion of the course with the grade of a "C" or better. Students will be following course curriculum equivalent to freshman year of college. This is a rigorous course for highly motivated students looking to challenge their artistic abilities. Students will finish the course with well developed portfolios that show a broad range of artistic studies, hence many different subjects and many different painting media, as well as, the opportunity to do in-depth drawing relating to one subject and/or medium.
Prerequisite: Art teacher recommendation (for dual enrollment option); Introduction to Drawing and Intermediate Drawing

1040: INTRODUCTION TO CERAMICS – Hand Building Intensive

This course is designed for students with an interest in the ceramic arts. The main focus of this class is to have students learn the essential skills that enable an artist to create functional and sculptural works in clay. Students will create various three dimensional forms using pinched, coil, and slab methods of construction. Students will spend the majority of the semester developing basic hand built constructing skills with clay and how it works. To close out the semester the students may be introduced to the pottery wheel to prepare them for the intermediate level which is wheel thrown intensive. Students will experiment with primitive firing techniques as well as basic glazing techniques in an electric kiln. While the skill development and studio work is the main focus of the course, there will be also be an emphasis on personal artistic development, craftsmanship, art history, and creative problem solving.

1044: INTERMEDIATE CERAMICS – Wheel Thrown Intensive

This course is designed for students with a serious interest in the ceramic arts. The main focus of this class is to have students apply the essential skills covered in Introduction to Ceramics by creating functional and sculptural works in clay. Students will be taught basic and intensive wheel throwing skills to create sets of functional mugs, bowls, and other functional vessels for everyday use. Students will apply hand-building techniques learned in the Introduction class to enhance their wheel thrown work. Students will spend the majority of the semester working on the potter's wheel. Students will learn begin to explore glaze development. Towards the completion of this course students would begin to develop their own personal artistic voice and style in clay. A further emphasis will be put on personal artistic development, craftsmanship, art history, and creative problem solving.
Prerequisite: Introduction to Ceramics

1048: ADVANCED CERAMICS

This course is designed for the serious art students that are self-disciplined, self-motivated, and have a strong interest in further developing their ceramic art skills. Students will be combining all the previous knowledge and skills acquired in Introduction to Ceramics and Intermediate Ceramics to create more in-depth and more challenging works of art. Students will have the choice to master the essential skills of either working on the potter's wheel or constructing three-dimensional hand built pieces. Students will focus on three dimensional forms of personal interest. Students will learn technical aspects of the ceramic arts like mixing clay and glazes. Students will be using the core art elements and design principles in their own work, and will create several pieces of artwork that carry a unifying theme. Students will be required to keep a sketchbook. Students will examine a wide variety of ceramic art from prehistoric times to contemporary ceramic artists.

Prerequisite: *Intermediate Ceramics and teacher recommendation*

1052: INTRODUCTION TO WEAVING AND CRAFTS

This course is designed for students with an interest in weaving and crafts. The introductory level will introduce students to loom and non-loom woven processes including loom weaving and basketry. Students will also be introduced to select crafts by learning wire, jewelry and hand crafted three dimensional design techniques.

1054: INTERMEDIATE WEAVING AND CRAFTS

This course is a more in-depth study of various weaving and craft experiences. An emphasis on individual style, creative expression, and design elements and principles will be incorporated. Students will also focus on craftsmanship of technique, as well as the combination of woven techniques and craft construction of various forms.
Prerequisite: Introduction to Weaving and Crafts

1056: ADVANCED WEAVING AND CRAFTS

The incorporation of introductory and advanced skills, techniques, styles and craftsmanship will be the primary focus for both woven and craft assignments. Advanced Weaving and Craft students will have the opportunity to learn how to create their own designs utilizing computer software. There will be an emphasis on the combination of advanced techniques and handcrafted processes for the creation of professional quality woven and craft forms. Students will create both functional and non-functional pieces.
Prerequisite: Intermediate Weaving and Crafts

1060: INTRODUCTION TO PAINTING

Students will explore the fundamentals of painting with a variety of painting media and artistic styles. Knowledge about the color wheel, mixing colors, as well as, design and composition will be emphasized. Instruction and demonstration will precede each painting activity. Painting media will include: watercolor, acrylics, and oils. Specific subject matter will be assigned for each painting medium.

1064: INTERMEDIATE PAINTING

Students will continue to explore painting with a variety of painting media and artistic styles. Design and composition will still be emphasized. Review of methods and techniques will precede each painting activity. Painting media will include: watercolor, acrylics, and oils. Specific subject matter will be assigned for each painting medium.
Prerequisite: Introduction to Painting

1068: ADVANCED PAINTING (Dual Enrollment Option)

This course is designed for junior or senior students who have an interest in pursuing art studies after graduation. Interested students are eligible for transferable college credit from Montgomery County Community College upon completion of the course with the grade of a "C" or better. Students will be following course curriculum equivalent to freshman year of college. This is a rigorous course for highly motivated students looking to challenge their artistic abilities. Students will finish the course with well developed portfolios that show a broad range of artistic studies, hence many different subjects and many different painting media, as well as, the opportunity to do in-depth painting relating to one subject and/or medium.
Prerequisite: Art teacher recommendation (for dual enrollment option); Introduction to Painting and Intermediate Painting

1086: INTRODUCTION TO COMPUTER GRAPHICS

Computer Graphics is designed to cover the basic fundamentals of computer graphics' technology with an introduction to advertising, desktop publishing, illustration and graphic design. An emphasis will be placed on understanding proper layout and design principles. Scanning, printing, digital photography, image manipulation, video editing and a variety of software applications will be covered. *Counts as a computer credit.*

1094: INTERMEDIATE COMPUTER GRAPHICS

Intermediate Computer Graphics will have an emphasis on utilizing and applying proper layout and design principles for advertising, desktop publishing, illustration, video editing and graphic design as they relate to marketing and industry. Students will begin to develop their own graphic design style and utilize it in their projects as well as focusing on applying a personal, creative style in these projects as well.
Prerequisite: Students must have a "C" or better in Intro to Computer Graphics to advance to the intermediate level. Counts as a computer credit.

1084: ADVANCED COMPUTER GRAPHICS

Advanced computer graphics will give practical experience to students who are considering computer graphics as a career. Students will develop an individual graphic design style using a variety of software for advertising, marketing, illustration, graphic design and video editing. A strong emphasis will be placed on mastering proper layout and design principles. Students will also be asked to complete two professional client requests. Client requests are where a community member or Boyertown staff members requests a specific graphic design project to be completed by the students.
Prerequisite: Students must have a "C" or better in Intermediate Computer Graphics to register for Advanced Computer Graphics. Counts as a computer credit.

1088: MIXED MEDIA DESIGN I (Foundation Course)

Designed as an important part of every art students' requirements, this course will explore the basic elements and principles of design, using a wide variety of materials. This exploration will cover both two dimensional and three dimensional design and will be one of the ways our students can study sculpture. This course should be taken by all students especially those planning a career in art.

1090: MIXED MEDIA DESIGN II (Foundation Course)

This course is a more advanced exploration of the core design principles and elements. Each one of the principles will be examined from a two dimensional, as well as a three dimensional standpoint. Focus for the course will be centered around studio work, aesthetic understanding, art history and critical analysis.
Prerequisite: Mixed Media Design I

1096: ANIMATION I

This class is intended for students who have completed at least one level of Computer Graphics. Animation students will use Adobe Flash and Adobe Dreamweaver to learn about timelines, static animations, and interactive animations. Projects are not limited to but may include banners, vector animations, interactive clocks, menus, and simple games. *Counts as a computer credit.*

1098: ANIMATION II

This course is for juniors and seniors who have successfully completed Animation I. The purpose of this course is to put together a portfolio for a possible career in animation. Students will be exploring advanced interactive animation, character development, story design, and professional portfolio preparation.
Prerequisite: Animation I; counts as a computer credit.

1099: ADVANCED PLACEMENT STUDIO ART

This course is designed for senior students who have a definite interest in pursuing art studies after graduation. Students must submit either a Drawing or 2-D Design portfolio for evaluation by the College Board near the end of the year. Students have the opportunity to earn college credit and/or advanced placement while in high school based on their completed portfolios' score. The portfolios have specific requirements that must be met according to the AP Studio Art Advanced Placement curriculum. Students will pursue independent, individual studies within the course; however, some projects, lessons, or activities will be teacher initiated. It is expected that students will be highly motivated, resulting in portfolios that show a broad range of studies and pursuits, hence many different subjects and many different media. In addition, time should permit in-depth studies and pieces of artwork related to one subject and/or medium as well.
Prerequisite: AP teacher recommendation, Drawing Introduction and Intermediate

1092: INDEPENDENT ART*

Independent Art is designed for art students who are planning to continue their education in an art related field. Any art student wishing to continue in a specific art course at Boyertown above the advanced level should schedule Independent Art. Once they are scheduled into this course they will fill out their Independent Art syllabus and obtain art teacher, guidance counselor, principal and parent permission. They will be scheduled with the art instructor of their media concentration and work with that instructor for the semester.
*Please see your counselor for descriptions of Independent Art for each media concentration
Prerequisite: Students must have a ' B' or better in the Advanced level of the specific course they will be concentrating in as an Independent art student.

BUSINESS & COMPUTER SCIENCE

1242: BUSINESS LAW

Is the field of law in your future plans or do you simply want to learn your rights as a consumer: If so, then this course is for YOU. Students will investigate the civil and criminal laws, become familiar with today's court system, and recognize legal problems in making contracts. Community people employed in the law field such as a police officer, district justice, correctional officer, and an attorney will be sharing their expertise with you. The internet will also be used as a research tool on the latest laws.

1243: ENTREPRENEURSHIP AND BUSINESS MANAGEMENT

This course will prepare a student to be successful running his/her own business or prepare for a future field of management. Students will learn to manage employees, understand the global economy and how it affects their business, develop decision making skills, communication skills, become a strong, effective manager; and identify management style. Possible pr ojects include writing business plans and a virtual business simulation.

1249: RETAIL MANAGEMENT

Retail Management is a multi-billion dollar industry in the U.S., and there will always be a need for qualified retail managers within the many chain, boutique, department and even "mom and pop" stores across the nation. Retail managers are in demand and today's employers are looking for individuals who are trainable, but also have some experience. Retail Management can provide training, allowing you to find the best opportunities in the job market right now, or after graduation. This class is more than personnel management, shipping oversight, profit and loss, ordering, inventory and scheduling. It's a multi-faceted career path that will challenge you to manage your time and stay on schedule. From customer service to successful personal selling, this class is a perfect way to add the entry-level experience employers are looking for to your resume!

1252: HONORS ACCOUNTING

This course is designed for students who wish to major in accounting in college or business school. This course is presented at a rapid speed, combining the accounting I and II curriculum in one year. The pace of the course will be approximately two chapters a week in comparison to the one chapter a week in Accounting I or II. This course will cover sole proprietorship, partnerships, and corporate accounting. Students will have an opportunity to learn an automated system.
Prerequisite: 'B' average in mathematics

1251: ACADEMIC ACCOUNTING I

This is a recommended course for all senior high students planning to get a business degree. It is a prerequisite for students who wish to enroll in advanced accounting courses. The course will build a foundation in accounting principles. It provides an overview of the complete accounting cycle for sole proprietorships and partnerships. A simulation project provides the students with a realistic experience of working with a complete set of financial data for a business, which is a required part of the course.
Prerequisite: 'C' average in mathematics

1261: ACADEMIC ACCOUNTING II

This course builds on all principles learned in Accounting I. Emphasis is placed on complex transactions and accounting for corporations. Students will also be working with five journals instead of one. A simulation will be completed for a corporation. The second half of the year will be focused on automated accounting, using Peachtree software. The automated accounting will compile all concepts learned in the manual environment.
Prerequisite: 'B' average in Accounting I

1256: SPORTS AND ENTERTAINMENT MARKETING

This course is recommended for students pursuing a future in sports and/or the business world. This highly interactive course will enable students to engage their creative side while learning how to market a team, a sports figure, a product/service and most importantly, how to market themselves. New trends in Marketing will be explored. Emphasis will be placed on all aspects of marketing including: ethical behavior, planning, consumer behavior, product research, e-commerce, advertising, and communication. Students will frequently engage in individual/group activities, and writing assignments in addition to utilizing the Web to explore and research existing companies. Many assignments will require the use of computers in the classroom.

1258: INTERNATIONAL BUSINESS

Did you ever wonder what is involved with doing business in another country? This course will show you the business activities needed to create, ship, and sell goods and services across national borders, along with improving mutual understanding, communication, and respect among people in different nations.

0862: INDEPENDENT STUDY – BUSINESS

This course is open to the following students: *seniors* who wish to pursue advanced projects or in-depth study of software packages in the IBM computer lab or business subjects. Students must have successfully completed the majority of the planned business/computer courses and must have the recommendation of the business department chair. Other prerequisites may be considered on an individual basis. An advisor will be assigned to the student.

Independent study is also open to students who have completed Advanced Placement Computer Science. This student must be interested in pursuing advanced programming concepts, must have the recommendation of the AP computer Science teacher, and must present an acceptable project to pursue.

COMPUTER COURSES

Computer courses are offered through the Business and Tech. Ed. and are taught on both IBM and Macintosh computers.

0864: BASIC COMPUTER SKILLS

This course is intended for the student who does not have the required skills for other computer courses. It is a slower paced computer course which includes learning and/or relearning the keyboard by touch typing and use of other computer applications.
Prerequisite: MUST have computer teacher and school counselor recommendation.

0874: MICROSOFT WORD MOS CERTIFICATION COURSE

This course will prepare students for the Microsoft Office Specialist certificate in WORD. The student will gain technical proficiency and expertise in Microsoft Office Word. This is a great certification to add to a college resume or for entry-level employment. The WORD core certification exam is optional and will be offered at the end of the course.
Prerequisite: Computer 7

0886: MICROSOFT EXCEL MOS CERTIFICATION

This course will prepare students for the Microsoft Office Specialist certificate in EXCEL. Students will learn core features of this software while exploring expert features as well. This is a great class for students continuing on to college, especially majoring in engineering, computer science, or business. Possessing a MOS certification will show employers your expertise in EXCEL. The EXCEL core certification test is optional and will be offered at the end of the course.

0888: MICROSOFT POWERPOINT AND ACCESS MOS CERTIFICATION

Combine two Microsoft certifications in one course! This course will prepare students for the Microsoft Office Specialist certificate in ACCESS and POWERPOINT. Students will learn core features of this software while exploring expert features as well. This is a great class for students continuing on to college, especially majoring in engineering, computer science, or business. Possessing a MOS certification will show employers your expertise in ACCESS and POWERPOINT. The ACCESS and POWERPOINT core certification tests are optional and will be offered at the end of the course.

0875: HONORS JAVA PROGRAMMING

This full-year offering is designed for the academic student who has a desire to take a first course in computer science. Students will learn fundamentals of computer science, structured programs, and develop their programming skills. Java is the language taught in introductory programming courses at many colleges and universities and is used to develop commercial microcomputer software. This is an excellent course for students pursuing a career in science, math, engineering, or computer science.
Prerequisite: 'B' in either Honors Algebra II, Geometry or approval of teacher

0866: WEB DESIGN

Using the popular point & click software, such as Frontpage or Dreamweaver, this course will have you developing a web design involving careful planning, organization and creativity. The technical skills involving a design include linking, multi-media elements, color, graphics, tables, shared borders, frames and much more. Basic HTML code, Java applets, Java scripts, macromedia flash, and Cascading Style Sheets will be covered. No programming skills are required…just your imagination!
Prerequisite: Word Processing (0874) or teacher recommendation

0868: VIDEO GAME DESIGN

Make your own video game! Dive into the creative game-making process, from theory to project completion. Use Clickstream Multimedia Fusion software to create complex, realistic video game including health meters, collision detection, multiple levels and character behaviors. Design 3-D games; create 3-D landscapes and models, design levels, assign character actions, and develop customized skins. Add lighting and shadow effects to customized terrains. Create first and third person role playing games, flight simulators, board games, and sports games.
Prerequisite: Honors Algebra II or Honors Geometry

0882: ADVANCED COMPUTER APPLICATIONS

Let us show you more! Study in depth the technology you learned from other computer courses with more advanced features in spreadsheets, graphing, database, and multi-media presentations. Using the integration of these software packages you will learn to solve problem-oriented projects.
Prerequisite: Computer Course (0886 and 0888)

CIS110: COMPUTER APPLICATIONS (Dual Enrollment)

This course introduces students to the fundamentals of computer hardware and software and their integration into management information systems. Included are hands-on applications using commercially prepared software on PCs including spreadsheets, databases, and word processing.

0884: ADVANCED WORD PROCESSING

Study the advanced features of Microsoft Office 2007 – Word and Publisher 2007 as you explore the exciting world of desktop publishing. Class activities cover the advanced features of word processing and publishing as well as design, layout graphics and other features that produce professional-looking documents.
Prerequisite: Word Processing (0874)

0869: ADVANCED PLACEMENT COMPUTER SCIENCE

This second-year computer science course emphasizes programming methodology and procedural abstraction through the study of algorithms, data structures, and data abstraction. The curriculum will prepare students to take the AP Computer Science Test.
Prerequisite: 'B' in Honors JAVA Programming

ENGLISH/LANGUAGE ARTS

0448: HONORS ENGLISH 10 **(NCAA Approved Course)**

This course, designed for the outstanding English student, provides a solid foundation for college bound students whose future studies and employment will require extensive use of English communications skills. Students will develop the vital skills of self-expression through speaking, listening, and writing, with an emphasis on grammar, usage, and sophisticated elements of style. This course will also deal with various literary types in a critical and analytical fashion. Students will employ advanced terminology to explore concepts of poetry, prose, fiction, and drama. In addition to orally analyzing literature, students will further develop composition skills in the written analysis of literature. The course includes both fiction and nonfiction multicultural works. Students will also receive instruction in skills utilized on the Scholastic Aptitude Test (SAT); these include sentence completions, usage, and the 25 minute essay.
Prerequisite: 'B' or better in 9th grade Honors English or 'A' in regular academic 9th grade English, and teacher recommendation. A Literature Keystone Exam will be administered at the end of the course.

0444: ACADEMIC ENGLISH 10 **(NCAA Approved Course)**

This rigorous, standards-based course provides a solid foundation for college bound students whose future studies and employment will require extensive use of English communications skills. Students will develop the vital skills of self-expression through speaking, listening, reading, and writing, with emphasis on grammar, usage, and writing instruction. In addition, students will read and examine multicultural literature that builds an understanding of self: how mastery of language is empowering, how both fiction and nonfiction texts help individuals to understand themselves, and how experiences determine personal identities. Special attention will be paid to the development of literacy in both fiction and nonfiction texts. Students will also learn to analyze various genres of literature in preparation for junior and senior level literature courses. Works studied will explore the importance of language in interpersonal relationships, the role of literature in understanding others, and the maintenance of a sense of self while living and working within a community.
A Literature Keystone Exam will be administered at the end of the course.

0458: HONORS ENGLISH 11 **(NCAA Approved Course)**
0454: ACADEMIC ENGLISH 11 **(NCAA Approved Course)**

This survey course traces the development of the American Dream and its effect on the contemporary American identity. Just as Americans in 1776 fought for their independence in order to forge a new nation, writers struggled to create a literature that was truly American, not only in content, but also in expression. In studying the Colonial, Revolutionary, Romantic, and Transcendental periods of American literature, the student will gain new insights into the unique literary heritage of America. The writing component of this course focuses on the development of a mature, scholarly style in the informative and persuasive modes with the inclusion of primary and secondary source material. During the second half of the year, students will explore how the American Dream has changed, what challenges it has faced, and how it continues to influence our lives. Students may also explore British literature and how it has impacted American works and authors that we read today.

Students selecting the honors level should demonstrate excellence in both writing and reading comprehension, evidenced by a grade of 'B' or better in previous honors classes or 'A' in previous academic classes and teacher recommendation.

SENIOR SEMINARS

Senior students may participate in a senior seminar requiring them to synthesize the reading, writing, speaking and listening skills they developed throughout their K-12 Reading, English and Language Arts experiences. The seminar course will require students to read a variety of literature, ranging from classic to contemporary, from American, British and World authors, and from novels to nonfiction. The seminar course will serve the function of bringing students together for discussions in which everyone present is requested to actively participate. This is often accomplished through an ongoing Socratic dialogue with a seminar leader or instructor, or through a more formal presentation of research. Seminar courses are generally a place where assigned readings are discussed, questions can be raised and debates can be conducted. Students will also utilize their writing skills to critically analyze and interpret assigned readings in preparation for class discussions.

0473: HONORS: UTOPIA/DYSTOPIA Fall/Spring (NCAA Approved Course)
0472: ACADEMIC: UTOPIA/DYSTOPIA Fall/Spring (NCAA Approved Course)

A utopia is an ideal state—but from whose point of view? This course will feature literature about a variety of imaginary and "real" societies that are divided into factions with competing ideals, interests, and points of view. Students will attempt to define a utopian and, consequently, a dystopian society.

0475: HONORS: IDENTITY Fall/Spring (NCAA Approved Course)
0474: ACADEMIC: IDENTITY Fall/Spring (NCAA Approved Course)

This course will require students to read a variety of texts to explore some of the factors that make us who we are. Our family and religious background, the place or places we have lived, our class and ethnicity are among the forces that help to shape our identity.

0477: HONORS: LITERATURE FOR SOCIAL CHANGE Fall/Spring (NCAA Approved Course)
0476: ACADEMIC: LITERATURE FOR SOCIAL CHANGE Fall/Spring (NCAA Approved Course)

This course will examine literature that has had an impact on social change. Students will focus on political, economic and cultural factors that impact social changes and the role of literature in recording and causing these changes.

0498: HONORS RESEARCH PAPER: Fall/Spring (NCAA Approved Course)
0494: ACADEMIC RESEARCH PAPER: Fall/Spring (NCAA Approved Course)

The ability to synthesize and interpret research material is crucial in the Information Age with its explosion of data. Drawing on the highest level of thinking skills, research papers are the most commonly used form of assessment in post high school programs. Research courses are, therefore, vital for all students planning to continue education beyond high school.

Students selecting the honors level should demonstrate superior skills in composition and literary analysis, evidenced by a grade of 'B' or better in previous honors classes or 'A' in previous academic classes and teacher recommendation.

ADVANCED PLACEMENT ENGLISH COURSES

BASH offers two Advanced Placement English courses for outstanding English students seeking rigorous courses and the possibility of college credit/acceleration via the AP testing program. Excellence in both writing and reading skills is required. Each course is independent of the other.

0499: ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION: Full Year
(NCAA Approved Course)

**Students may choose to take this course in their Senior year only.*

Course material will include readings from American, British and world authors. Students will also complete a major literary research project. The course follows the AP examination approach through intensive work in the critical analysis of literature. Activities will include the study of advanced literary terminology; advanced activities in syntax, tone, and voice; online peer composition reviews; group seminar presentations; and mock AP testing sessions. Students electing Advanced Placement will be required to read four major literary works during the summer between grades 11 and 12. A reading list will be provided in June. At the opening of the school year, students will be required to respond to those readings at a satisfactory level before being permitted to participate in the Advanced Placement English class.

Prerequisite: 'B' or better in previous honors courses, recommendation of 11th grade Honors English teachers, and approval of the English department leader.

0489: ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION: Full Year
(NCAA Approved Course)

**Students may choose to take this course in either their Junior or Senior years.*

The purpose of this course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively. Writing instruction will move beyond formalistic writing such as the five-paragraph essay, placing emphasis on content, purpose, and audience and allowing this focus to guide the organization of their writing. Students will explore the experience of the process of composing. They will write in both formal and informal contexts to gain authority and to learn to take risks in writing. Literature selections will be studied to aid students in understanding rhetorical and linguistic choices. Summer reading selections will be required; a reading list will be provided in June. At the opening of the school year, students will be required to respond to those readings at a satisfactory level before being permitted to participate in the Advanced Placement English class.

Prerequisite: 'B' or better in previous honors courses, recommendation of 10th or 11th grade Honors English teachers, and approval of the English department leader.

ENG 101/102: ENGLISH COMPOSITION (DUAL ENROLLMENT OPTION): Full Year
(NCAA Approved Course)

English Composition (ENG101-Fall semester) is based on the premise that clear thinking generates clear writing. The student learns how to use the tools of effective writing and how to develop ideas through such expository patterns as example, process analysis, cause and effect, classification, comparison/contrast, definition, argument, narration, and description. English Composition (ENG102- Spring semester) focuses on writing the college-level research paper and develops each student's mastery of communication, information literacy, and analytic skills with emphasis placed on research and documentation methods. Students use writing, reading, listening, and observation skills to understand, organize, receive, and convey information. Using research gleaned from diverse sources, students employ logic, reasoning, and analysis to craft effective essays.
**Successful completion of the Accuplacer test is required for dual enrollment option (ENG102- Fall semester) opportunity.*
***Please note that the grade of 'C' or better must be obtained in ENG101(Fall Semester) in order to be able to take the ENG102 (Spring semester) as a dual enrollment option.*
****Successful completion of both semester courses will provide you with 6 MCCC credits and 1 BASH credit as well as fulfill your senior English requirement.*

ENG 101/115: ENGLISH COMPOSITION/TECHNICAL WRITING (DUAL ENROLLMENT OPTION): Full Year

(NCAA Approved Course)

English Composition (ENG101-Fall semester) is based on the premise that clear thinking generates clear writing. The student learns how to use the tools of effective writing and how to develop ideas through such expository patterns as example, process analysis, cause and effect, classification, comparison/contrast, definition, argument, narration, and description. Technical Writing (ENG115-Spring semester) is an application of skills taught in ENG101 and teaches how to do on-the-job writing. It concentrates on special and practical forms of communication, letters and memos, the summary, the critique,the report, the article, and the technical speech. The course also adapts formal English to the style of the technical or specialized writer.
**Successful completion of the Accuplacer test is required for dual enrollment option (ENG102- Fall semester) opportunity.*
***Please note that the grade of 'C' or better must be obtained in ENG101(Fall Semester) in order to be able to take the ENG115 (Spring semester) as a dual enrollment option.*
****Successful completion of both semester courses will provide you with 6 MCCC credits and 1 BASH credit as well as fulfill your senior English requirement.*

0496: INDEPENDENT STUDY: ENGLISH

Capable senior English students may apply for independent study by contacting the English department leader. To qualify for independent study, the candidate must demonstrate superior English skills and aptitude and must possess attributes of reliability, academic discipline, and self-reliance. Independent study will be conducted on a student-advisor basis with a member of the senior high English faculty. Projects may range from written research to theatrical performance to creative portfolios. Independent study must be taken as an **additional course**; it cannot replace required courses.

0404: FOUNDATIONS OF LITERACY: Fall/Spring

This course will emphasize the skills utilized in the writing process as well as strategies employed by accomplished readers. Studies will focus on sentence structure, paragraph development, basic mechanics, and critical reading. The course will include intensive paragraph writing and daily reading exercises. This course is required of all students with scores of Basic or Below Basic on the PSSA exam administered in their Junior year. Students demonstrating a need of further remedial reading and writing instruction may also be recommended for this class.

FAMILY AND CONSUMER SCIENCES

Note: No classes can be taken twice.

1344: THE PRESCHOOL PROGRAM I

What fun! Learn about children while working with them. Apply your knowledge of concepts and techniques of child development for the planning and teaching of preschool children. Four year old children come in twice a week while students plan activities for them.

1346: THE PRESCHOOL PROGRAM II

Students will have an opportunity to work with children while pursuing advanced curriculum planning and activities for the children's classes.
Prerequisite: The Preschool Program I and Teacher recommendation

1356: THE PRESCHOOL PROGRAM III

A continuation of the Preschool Program II. This course provides the opportunity to exercise ingenuity to devise play and creative activities for the children. The Special Needs child is studied.
Prerequisite: The Pre-school Program II and Teacher recommendation

1376: CULINARY ESSENTIALS
Application of the principles of selection of foods, styles of meal service, nutrition, planning, prep and marketing. Management of resources for today's family and their lifestyles will be addressed.

1378: PARENTING AND CHILD DEVELOPMENT

This course examines the powerful and complex role of parenthood. Issues pertaining to parenting decisions and parental-child interaction are discussed. The child from birth to age five is studied with emphasis on social, emotional, physical, psychological, and intellectual growth and development.

1380: WORLD CUISINE

This course studies the cultural, social, psychological, and economic factors which affect food habits of people in the United States and around the world. Countries explored include: Scandinavia, France, Germany, Great Britain, China, Japan, Mexico, Greece and Italy. Class time is utilized for library research, planning, preparing, and serving foods.
Prerequisite: Culinary Essentials

ESW206: BASIC NURTITION – Dual Enrollment

This course will introduce students to the study of nutrition. It will incorporate fundamental scientific principles enabling students to develop their own nutritional lifestyle compatible with these principles. The course will provide an understanding of nutrients, their function in the body, deficiency diseases, body composition, nutrition and physical activity, nutrition through the life span, food faddism, consumer issues, and an evaluation of diets. The course will encourage the intelligent application of information so as to enable the students to succeed in implementing good nutrition in their own lives.
**Successful completion of the Accuplacer test is required for dual enrollment option.*

1360: INDEPENDENT STUDY - FCS

Independent work at this level is designed to provide an opportunity for the student to improve competence in an area of concentration or related area of interest which he/she is unable to schedule.
Prerequisite: Teacher recommendation

HEALTH AND PHYSICAL EDUCATION

REQUIRED 10TH GRADE COURSE:
0241: HEALTH AND PHYSICAL EDUCATION - Sophomores Only - Meet 5 times a cycle

This course is a combination of health and physical education classes. The objective of the course is to teach students how to evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and life skills to promote life-long participation in fitness activities. Health content is designed to teach students the skills of decision making, analyzing influences, goal setting, communication, accessing information, self management, and advocacy. The health core concepts taught are health promotion, life-styles that enhance quality of life, personal health disease prevention, and destructive behaviors including: tobacco, alcohol, and drug misuse and abuse.

REQUIRED 12TH GRADE COURSE:
0262: WELLNESS 12 (1st Semester - last names A-L) (2nd Semester - last names M-Z) – Meet 3 times a cycle.

This health course will include the following topics: male and female reproductive systems, pregnancy, childbirth, HIV/Aids education, cancer (prevention and treatment) and other infectious diseases, destructive behaviors such as use of alcohol and the laws, tobacco, and drug misuse and abuse.

****

NOTE:
11th GRADE STUDENTS (6 choices) *Semester Courses*
1. 0270 - Outdoor Education
2. 0276 - Tactics of Net Games
3. 0278 - Tactics of Team Games
4. 0280 - Personal Fitness
5. 0282 - Strength and Conditioning I
6. 0286 - Physical Education for students taking AP Science

12th GRADE STUDENTS *(8 choices) Semester Courses*
1. 0270 - Outdoor Education
2. 0276 - Tactics of Net Games
3. 0278 - Tactics of Team Games
4. 0280 - Personal Fitness
5. 0285 - Personal Fitness II
6. 0282 - Strength and Conditioning I
7. 0284 - Strength and Conditioning II
8. 0286 - Physical Education for students taking AP Science

12th GRADE STUDENTS Yearlong *Course*
1. 0263 – Human Physiology & Wellness/Fitness Program

0270: OUTDOOR EDUCATION – Meet 5 times a cycle

Students will be introduced to a variety of outdoor/environmental physical activities. In this course students will learn how to plan for outdoor excursions, monitor fitness, prepare for changing weather, practice No Trace Philosophy, and develop a plan for living an active lifestyle within the natural environment.

0272: SPORTS PSYCHOLOGY – Meet 3 times a cycle

This elective course will attempt to apply psychological facts and principles to learning, performance, and associated human behavior in the field of sports activities. Students will be able to maximize their potential in sport performance, through recognizing the mind/body or mental/physical integration necessary for learning.

0274: CPR/FIRST AID - Meet 3 times a cycle

This course will provide all the necessary information, written, practical and skill work to become certified by the American Heart Association in CPR and First Aid.

0276: TACTICS OF NET GAMES - Meet 5 times a cycle

Students will study a variety of net games/sports and the strategies used during game play. Strategies will be analyzed and compared from one game to another. Activities will include but are not limited to tennis, badminton, pickleball, volleyball.

0278: TACTICS OF TEAM SPORTS - Meet 5 times a cycle

Students will be involved with team building activities to start the course and learn the health benefits of being involved in team games. Students also will study a variety of strategies used during team sports which they will analyze and compare from one game or sport to another. Activities will include but are not limited to ultimate Frisbee, basketball, flag football, speed ball, volleyball, floor hockey and softball. Students will also investigate team sports and how they can be pursued as lifetime opportunities.

0280: PERSONAL FITNESS I - Meet 5 times a cycle

Students will explore and develop a personal fitness routine which demonstrates the benefits of exercise adherence. The following is a list of possible activities in the course: jogging/walking, aerobic activities, circuit training, weight training, flexibility workouts, group fitness, outdoor winter activities for fitness, lifetime fitness activities, and Physical Fitness Testing each quarter.

0285: PERSONAL FITNESS II - Meet 5 times a cycle

Students will use exercise and training principles learned in Personal Fitness to develop their own program of health-related fitness using SMART goals.
Prerequisite: Personal Fitness.

0282: STRENGTH TRAINING AND CONDITIONING I – Meet 5 times a cycle

Students learn how to design and implement their own personal fitness program targeted to meet individual needs; this format allows the student much flexibility in choosing the activities in which they will participate. Those individuals who have an interest in improving and/or maintaining their personal fitness level should take this course.

0284: STRENGTH TRAINING AND CONDITIONING II - Meet 5 times a cycle (12th grade only)

This course expands upon the information and techniques learned in Strength Training and Conditioning I. Students will learn more in depth aspects of fitness program design to meet individual needs. Not only will students learn how to improve their own personal fitness, they will develop the skills and knowledge needed to take a personal training certification course. Students enrolled in this course may receive scholarship opportunities for personal training certifications.
Prerequisite: Strength Training and Conditioning I.

0286: PHYSICAL EDUCATION FOR AP SCIENCE STUDENTS - Meet 4 times a cycle (11^{th}-12^{th} grade only)

This course is provided for students who are taking AP chemistry, biology or physics. The content of the course will be a combination of activities that lead to lifetime physical activity. Students will be expected to participate in additional physical activity outside to make up for missed time in class.

0263: HUMAN PHYSIOLOGY & WELLNESS/FITNESS PROGRAM (12)

In this health and physical education course students have the opportunity to learn about human anatomy and physiology including an in-depth study of fitness training, the skeletal system, muscular system, nervous system, nutrition, disease prevention, and stress management. Students who take this class should have an interest in a related field of study. The basic curriculum of 12th grade health is applied in conjunction with the study of physiology. Students selecting the course must also enroll in Human Physiology (0163 - see Science).

0275: CPR/FIRST AID – (Dual Enrollment) Meet 3 times a cycle

This course will provide all the necessary information, written, practical and skill work to become certified by the American Heart Association in CPR and First Aid. This is a dual-enrollment course. * *Possible book fee.*
Prerequisite: Community College Placement Test

0271: ADAPTED FITNESS (10, 11, 12)

Adapted Fitness will be available to students who are unable to participate in the regular fitness program. This program offers a variety of modified activities or specially designed activities to meet the individual needs of the students. *Physician's recommendation required*

MATHEMATICS

0342: ACADEMIC GEOMETRY (NCAA Approved Course)

This is a traditional course in geometry involving properties and applications of : points, lines, planes, and angles, reasoning, proofs, and logic, congruent triangles, similarity, right triangles, circles, areas and volumes, transformations, and conic sections. A scientific calculator is required.
Prerequisite: Passed Algebra I or Algebra 1B

0350: HONORS ALGEBRA II (NCAA Approved Course)

This course is a continuation of Algebra in which the following topics are studied: properties of real numbers, exponents, radicals, complex numbers, linear, rational and quadratic functions and relations, significant digits, and matrices. TI83 or TI84 calculator is required. Financial assistance is available if necessary.
Prerequisite: 'A' in Algebra I and 'A' in Geometry, and a teacher recommendation

0351: ACADEMIC ALGEBRA II (NCAA Approved Course)

This course is continuation of Algebra in which the following topics are studied: properties of real numbers, exponents, radicals, complex numbers, linear, rational and quadratic functions and relations, significant digits, and matrices. A TI83 or TI84 is strongly recommended and at least a scientific calculator is required.
Prerequisite: Passed Algebra I & Geometry or in Geometry currently

0359: HONORS PRE-CALCULUS (NCAA Approved Course)

This course is similar to Pre-Calculus, but includes substantial project work and a greater emphasis on abstract reasoning. This course also requires a strong background in algebra. A TI83 or TI84 calculator is required. Financial assistance will be available as needed.
Prerequisite: 'B' or better in Honors Geometry and 'B' or better in Honors Algebra II and a teacher recommendation

0354: ACADEMIC PRE-CALCULUS (NCAA Approved Course)

This is a traditional course in trigonometry including the study of probability, statistics, series and sequences, logarithms, and other pre-calculus topics. A TI83 or TI84 calculator is required. Financial assistance will be available as needed.
Prerequisite: Passed Algebra II & Geometry

0362: ACADEMIC ALGEBRA III with SENIOR TOPICS (NCAA Approved Course)

This course is for ***SENIORS*.** This course continues where Algebra 2 ended and includes trigonometry. Included are the following topics: functions, exponents and logarithms, sequences and series, combinatorics, probability and statistics. This course will also present some consumer/financial math topics. A TI83 or TI84 calculator is strongly recommended and at least a scientific calculator is required.
Prerequisite: Passed Algebra II & Geometry, and a Senior

0366: ACADEMIC ALGEBRA III with JUNIOR TOPICS (NCAA Approved Course)

This course is for ***JUNIORS*** based on teacher recommendation. This course continues where Algebra 2 ended and includes trigonometry and PSSA preparation. Included are the following topics: functions, exponents and logarithms, sequences and series, combinatorics, probability, statistics, geometry recap, right triangle trig, oblique triangle trig, and unit circle trig. Students may continue on to either Pre-Calculus or Probability & Statistics. A graphic calculator is required.
Prerequisite: Passed Algebra II & Geometry, a Junior, teacher recommendation.

0368: ADVANCED PLACEMENT STATISTICS (NCAA Approved Course)

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Projects, investigations, and group activities will be employed to emphasize understanding of concepts rather than the memorization of formulas. Statistics is recommended as an additional elective math course for the junior or senior year or as an alternative to calculus for students who will not pursue science or engineering related fields. Though this course does not require advanced mathematics, it does require strong thinking , reading, and writing skills, and extensive work outside of class. The TI83 or TI84 calculator is required. Financial assistance will be available as needed.
Prerequisites: 'B' or better in Algebra II, a Pre-Calc. course completed/concurrently, teacher recommendation.

0360: ACADEMIC PROBABILITY AND STATISTICS (NCAA Approved Course)

This course is for ***SENIORS*** who have taken Pre-Calculus, Pre-Calculus Honors. It has two main components: Probability and Statistics. In Statistics students will see how it is used to picture and describe the real world, and to show that statistics is used to make informed decisions. Probability serves as the backbone for "decision-making" statistics and will also be studied in it's own right. A strong algebraic background is not required. Because of the statistical capabilities of the TI-83 or TI-84, one of these graphing calculators is required. (TI-82, 85, 86, Casio, Hewlett-Packard will not be sufficient for this course). Financial assistance will be available as needed.
Prerequisite: Passed Pre-Calculus (Seniors Only)

0363: ACADEMIC CALCULUS (NCAA Approved Course)

The calculus course includes a review of mathematical topics necessary for the study of differentiation and integration. Differentiation and integration will be studied and developed through the use of applications. TI83 or TI84 calculator is required. Financial assistance is available if necessary.
Prerequisite: Passed Pre-Calculus

0369: ADVANCED PLACEMENT CALCULUS (AB) (NCAA Approved Course)

This course covers all the topics required to take the AB version of the A.P. Calculus exam, which includes the equivalent of 1.5 semesters of college calculus. It requires extensive work outside of class, including the previous summer. TI83 or TI84 calculator is required. Financial assistance is available if necessary.
Prerequisite: 'A' in Honors Pre-Calculus and teacher recommendation

0370: ADVANCED PLACEMENT CALCULUS (BC) (NCAA Approved Course)

This course covers all the topics required to take the BC level of the A.P. Calculus exam, which includes the equivalent of 2.5 semesters of college calculus. It requires extensive work outside of class, including the previous summer. TI83 or TI84 calculator is required. Financial assistance is available if necessary.
Prerequisite: 'A' in A. P. Calculus (AB) and/or teacher recommendation.

0371: INDEPENDENT STUDY- MATH

This course is designed for students who are unable to schedule Math classes during daily class time. Students must be prepared to complete assignments on their own time. A weekly appointment will be set at which time work from the previous week will be evaluated and graded.
Prerequisite: Teacher recommendation and Department leader approval.

MUSIC

1140: BAND/ORCHESTRA

This course is for string students who are also members of the band. These students split their time between both ensembles. See course descriptions below for specific details.

1141: BAND

The band program encompasses a wide variety of performing activities. The concert band rehearses throughout the fall season and is featured in an annual holiday performance as well as a performance in the spring. Traditionally, the band has also had the opportunity to travel and perform in the spring. We expect students enrolled in band to be in attendance at all after-school rehearsals and performances. Exemptions are made for illness and family emergencies. A student's work schedule must not conflict with after-school activities.

In order to ensure that students maximize their performing opportunities, we strongly advise that students participate in both the in-school and after-school marching band activities. The marching band functions throughout the fall athletic season with pre-game and halftime performances as well as various parades.

As stated in the student handbook, a band member participating in a sport may choose not to participate in after-school band during that season. However, the student is encouraged to schedule band and participate in band class during the day. At the conclusion of the athletic season, the member will return to normal after-school band activities. Band members are eligible to participate in county, district, and regional bands if selected by audition.

Career Tech students that wish to participate in band are encouraged to do so. The student should contact their guidance counselor and band director to make special arrangements for inclusion in band.
Prerequisite: Open to band instrument performers. Selection by audition.

1142: ORCHESTRA (strings)

The orchestra performs for local school events and community functions, playing a repertoire which includes classical and popular music. Orchestra is a course with both in-school and after- school responsibilities. Students enrolled in orchestra are expected to attend all after school rehearsals and performances. Exemptions are made for illness and family emergencies. These after school responsibilities take precedence over student work schedules. Selected wind and percussion students join the string students two days per cycle on school time. These students will also have limited after school rehearsal responsibilities. Orchestra members are eligible to participate in county, district and regional events if selected by audition.
Prerequisite: Open to string players. Selection by audition.

1171: CONCERT CHOIR

Knowledge of music reading and vocal experience is needed. The choir performs varied types of choral music, including sacred and secular selections. Students must be available for a minimal amount of after school rehearsals and non-school time performances. Concert choir members are eligible to participate in county, district, and regional events if selected by audition.
Prerequisite: Open to boys or girls, selection by audition.

1172: WOMEN'S ENSEMBLE

Open to any female student who wishes to sing in a choral organization. Members need not audition. This group performs two and three part music in a variety of styles.

1174: AMERICAN MUSICAL THEATER

This course is a study of the development of musical theater and an in-depth study of individual Broadway shows, including music, plot, drama, costumes, scenery, etc.

1180: PIANO CLASS I

This is a course designed to develop basic keyboarding skills. Students will use pianos in the music department keyboard lab. Students will also be required to spend some practice time out of class. No piano experience is necessary, but students must have a knowledge of the language of music. Class size is limited to number of available pianos. *Counts as a computer credit.*

1181: PIANO CLASS II

This course is designed to be a continuation of Piano Class I. Student will be challenged with medium advanced or advanced music and scales, depending on their abilities. There will be extensive out of school practice time necessary to complete this course. Final grade will consist of music research and a piano recital.
Prerequisite: Piano Class I; counts as a computer credit.

1178: ADVANCED PLACEMENT MUSIC THEORY

A major component of any college curriculum in music is a course introducing the first-year student to music theory, a subject that comprises the musical materials and procedures. It may emphasize one aspect of music, such as harmony; more often, however, it integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course. The student's ability to read and write musical notation is fundamental to such a course. It is also assumed that the student has acquired (or is acquiring) at least basic performance skills in voice or on an instrument. The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. *Prerequisite: Teacher Recommendation*

NAVAL JUNIOR RESERVE OFFICERS' TRAINING CORPS (NJROTC)

Naval Junior Reserve Officers' Training Corps (NJROTC) teaches you self-discipline, self-confidence, and leadership skills that can help you successfully meet life's challenges. NJROTC curriculum, instruction, and activities are designed to develop your leadership ability regardless of your career path. The Naval Science curriculum is usually three to four years in length. It consists of formal classroom training supplemented by ship training cruises, orientation visits, and field trips to various naval and military activities to enhance classroom studies. **There is NO OBLIGATION to join the armed forces of the United States.** Uniforms are on loan to cadets at no cost other than to maintain the cleanliness of the uniform. Completion of a three-year curriculum entitles a cadet graduate to additional opportunities for Military Academy nominations, ROTC scholarships at major colleges and universities, and if enlisting in the Armed Forces, a promotion of three ranks is guaranteed (except for the U.S. Marine Corps). The six-day cycle is usually broken down into two days of military academic orientation, two days of drill training, and two days of physical fitness training. Each cadet is required to correctly wear the U.S. Navy uniform all day on one designated day per week (usually Wednesday), and for special functions. Following U.S. Navy grooming regulations while wearing the uniform is required; specifically:

Males - haircuts must be U.S. Navy Regulation and earrings **may not** be worn in the NJROTC classroom or when in uniform.

Females- hair must be worn in the style keeping hair above the collar when in uniform and **only one set** of earrings may be worn in the NJROTC classroom and one set of post earrings when in uniform.

2400: NAVAL SCIENCE 1

Naval Science 1 introduces students to the meaning of citizenship, the elements of leadership, the value of scholarship in attaining life goals, and engenders a sound appreciation for the heritage and traditions of America. It includes an introduction to leadership, naval customs and traditions, naval ships, their missions and organizations, maritime geography, naval aviation and orienteering. Students will take field trips, learn to drill, be involved in community activities and have the opportunity to participate in a variety of extracurricular activities.

2401: NAVAL SCIENCE 2

Naval S cience 2 challenges students to continue to develop their traits of citizenship and leadership, responsibility, self-discipline and appreciation for the heritage and traditions of America. It includes further leadership training, military drill with arms, maritime history, and nautical sciences. The purpose of this course is designed to engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future, a sound understanding of maritime geography as it relates to our national resources, landforms, climate, soil, bodies of water, people, governments, military and geopolitics, and develop in each cadet a growing sense of pride in his/her organization, associates, and self. After successfully completing this course the student will be knowledgeable of the growth and influence of the United States sea power throughout our nations development.
Prerequisite: Naval Science 1 plus Naval Science Instructor recommendation

2402: NAVAL SCIENCE 3

Naval Science 3 further challenges students to continue to develop their skills of citizenship and leadership, responsibility, self-discipline, and the appreciation for the heritage and traditions of America. It includes further instruction in: leadership, military drill with arms, the naval skills of basic seamanship and navigation, and the U.S. Navy operations and strategy. The purpose of this course is to further develop the understanding and importance of sea power and national security, naval operations and support functions, military law, international law and the sea, introduce cadets to the technical areas of naval science study, and engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States. Specific topics to be covered include: national security, military law, ship building and navigation.
Prerequisite: Naval Science 1 or 2 plus Naval Science Instructor recommendation

2403: NAVAL SCIENCE 4

Naval Science 4 is a leadership development course that brings together all previous leadership techniques and tools learned during the three Naval Science courses. Cadets apply these techniques and management skills to discuss historical and hypothetical leadership challenges and their solutions. Additionally, cadets will be managing the day-to-day administration and leadership challenges of running a corps of over one hundred cadets.
Prerequisite: Naval Science 2or 3 plus Senior Naval Science Instructor recommendation

2405: INDEPENDENT STUDY - NJROTC

This course is designed for students who are unable to schedule NJROTC classes during daily class time. Students must be prepared to complete assignments on their own time. A weekly appointment will be set at which time work from the previous week will be evaluated and graded.
Prerequisite: Teacher recommendation and Department leader approval

SCIENCE

The Science Department offers a wide variety of courses to suit the needs of all students regardless of their educational goals. In order for a student to cover the Pennsylvania Academic Standards, it is recommended that they follow one of the paths shown on page 62. Beyond that, there are numerous elective choices, which can broaden and enhance his/her science experience.

0149: HONORS BIOLOGY **(NCAA Approved Course)**

Honors Biology is similar to Academic Biology, but is available only to students with high interest and exceptional ability. Topics are the same as Academic Biology, but covered in greater depth and at a quicker pace. Greater emphasis is placed on higher order thinking skills.
Prerequisite: 'A' average in 8th and 9th grade science; teacher and counselor recommendation, strong study skills, & motivated to do out-of-class work. A Biology Keystone Exam will be administered at the end of the course.

0142: ACADEMIC BIOLOGY **(NCAA Approved Course)**

Academic Biology is a rigorous introduction to the biological sciences in which the student will explore the basic make-up of living things, how they are put together, carry on life processes, pass characteristics on from one generation to the next, and interact with one another and the environment. This is a laboratory course.
A Biology Keystone Exam will be administered at the end of the course.

0159: HONORS CHEMISTRY **(NCAA Approved Course)**

Honors Chemistry is similar to Academic Chemistry, but is available only to students who demonstrate high interest and exceptional ability. It will cover the same content as Academic Chemistry while incorporating more in-depth discussion and problem solving. *Prerequisite: '95%'or above in Acad. or '85%' or above in Honors Biology, 'A' average or above in Algebra I, Algebra II completed with 'B' or better or taken concurrently; teacher and counselor recommendation.*

0153: ACADEMIC CHEMISTRY **(NCAA Approved Course)**

Chemistry is a challenging course with a major emphasis on problem solving with mathematical applications. Strong math skills, especially Algebra, are essential. Topics studied include the periodic table, chemical naming and formula writing, bonding and molecular geometry, and chemical reactions and calculations. Enrolling in chemistry is one way of fulfilling laboratory science requirements for college.
Prerequisite: 'C' average or above in Academic or Honors Biology; Algebra II completed with a 'C' or above or taken concurrently (or the recommendation of the math teacher)

0150: ACADEMIC EARTH SCIENCE **(NCAA Approved Course)**

Academic Earth Science is an elective academic course for students interested in taking a more in-depth study of the earth's processes. It is recommended for students who want to further their knowledge in Earth Science and are contemplating a career in this field. Areas covered will be Meteorology, Oceanography, and Geology.
Prerequisite: Chemistry may be completed or taken concurrently; or by teacher recommendation

0152: ACADEMIC ENVIRONMENTAL SCIENCE **(NCAA Approved Course)**

Environmental Science is an academic, laboratory course that examines the science behind local and global environmental issues. Topics include water quality, resource management, energy, atmospheric pollution, climate change, biodiversity, and agriculture. Field work and substantial in-depth projects are required. Students taking this course as a Junior are not eligible to take AP Environmental Science as a Senior.
Prerequisite: 'C' average in Academic Biology

0154: ACADEMIC ASTRONOMY **(NCAA Approved Course)**

This course is an inquiry into the fundamental concepts of the universe. Topics include the celestial sphere, historical astronomy, telescopes, light and the spectrum, the solar system, the Sun, the life cycle of stars, galaxies, cosmology and the possibilities of life in space. Students will be involved in research assignments, oral presentations, and current events in astronomy. Mathematics is used in various laboratory exercises designed to show modern methods of observing the sky.

0168: HONORS PHYSICS **(NCAA Approved Course)**

This course is similar to Physics, but more challenging. It is open to students with high interest and exceptional ability. The same topics as Physics are covered, but at a faster pace and greater depth. Application of concepts is stressed. A scientific calculator is required. (May take concurrently with Honors Chemistry)
Prerequisite: 'B' in both Algebra II and Chemistry; Trigonometry completed or taken concurrently. Microsoft Excel. (Recommended Electives for Students interested in Engineering- Technical Drawing & Design (10th Grade), and Engineering Design (11th Grade)

0161: ACADEMIC PHYSICS **(NCAA Approved Course)**

Physics is a laboratory based course with a great deal of hands-on experience. The course covers waves, light, sound, static electricity, DC circuits, measurements, forces, motion, and energy. Mathematics is used extensively for evaluating formulae, analyzing data, graphing, solving problems and recognizing trends. Physics is recommended for college-bound students and for those planning on attending a technical school after graduation. A scientific calculator is required.
Prerequisites: 'C' in both Algebra II and Chemistry; Trigonometry completed or taken concurrently

0162: ADVANCED PLACEMENT PHYSICS-C – MECHANICS **(NCAA Approved Course)**

AP Physics-C is a calculus-based physics course for students who plan to major in physics, astronomy, mathematics, or any type of engineering. Students will be instructed on all necessary calculus topics prior to testing. Course will meet eight periods per cycle. Students have the option to take the Advanced Placement Examination for college credit at the conclusion of the course. A TI84 calculator is required. (May take Honors Physics and Honors Chemistry concurrently in 11th grade and then take AP Physics in 12th grade, but this is not required.)
Prerequisite: 'B' in Chemistry and enrolled in Calculus (no prior Physics course is required).
(Recommended Electives for Students interested in Engineering- Technical Drawing (10th Grade) and Design, and Engineering Design (11th Grade)

0169: ADVANCED PLACEMENT BIOLOGY **(NCAA Approved Course)**

Advanced Placement Biology is an advanced course in biology for college-bound students. This course is equivalent to a general biology course taken during the first year of college. It is rigorous and is recommended only for highly motivated, high ability students who are contemplating a career in science. A wide range of comprehensive topics will be studied coming under the categories of molecular and cellular biology, organism biology, and population biology. Students have the option to take the Advanced Placement Examination for college credit at the conclusion of the course.
Prerequisite: 'A' in Biology or a 'B' in Honors Biology; Chemistry completed or taken concurrently; or teacher recommendation

0198: ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE **(NCAA Approved Course)**

AP Environmental Science is an interdisciplinary, rigorous science course for motivated students interested in complex natural systems, environmental problems, risks, alternatives, and solutions. The course is intended for high performing students interested in non-scientific professions, as well as for future scientists. AP Environmental Science stresses *field investigation* as well as laboratory work. Students have the option to take the Advanced Placement Examination for college credit at the conclusion of the course.
Prerequisite: 'B' in Biology, 'B' in Chemistry, 'B' in Algebra, or teacher recommendation. Previous course in Earth and Space Science preferred

0199: ADVANCED PLACEMENT CHEMISTRY **(NCAA Approved Course)**

The Advanced Placement Chemistry course is equivalent to two semesters of college freshman level chemistry. It is rigorous and is recommended only for highly motivated, high ability students who are planning a career in science. The course includes advanced topics such as chemical equilibrium, chemical kinetics, and thermodynamics. The laboratory investigations are complex and require in-depth analysis, as well as independently written reports utilizing word processing and computer graphing skills. Students have the option to take the Advanced Placement Examination for college credit at the conclusion of the course. Two double laboratory periods every cycle.
Prerequisite: 'B' in Honors Chemistry or 'A' in Academic Chemistry AND teacher recommendation; must be taking or have taken Physics.

0155: ASTRONOMY (Dual Enrollment) (NCAA Approved Course)

This course is an inquiry into the fundamental concepts of the universe. Interested students are eligible for transferable college credit from Montgomery County Community College upon completion of the course with the grade of a 'B' or better. Students will be following course curriculum equivalent to freshman year of college. Students will be involved in research assignments, oral presentations, and individual projects pertaining to astronomy. Mathematics is used in various laboratory exercises designed to show modern methods of observing the skies.

0197: ENVIRONMENTAL SCIENCE (Dual Enrollment) (NCAA Approved Course)

Environmental Science is an academic, laboratory course that examines the science behind local and global environmental issues. Topics include water quality, resource management, energy, atmospheric pollution, climate change, biodiversity, and agriculture. Field work and substantial in-depth projects are required. Students that achieve a "C" or better are eligible for transferable college credit form Montgomery County Community College upon completion of the course. Curriculum equivalent to a freshman year college course will be followed.
Note: Students that take this course in their junior year may not take AP Environmental Science as a senior.
Prerequisite: 'C' average in Academic Biology; Community College Placement Test

0163: ACADEMIC HUMAN PHYSIOLOGY/WELLNESS (NCAA Approved Course)

This is a rigorous academic course designed for potential entrants into nursing, health-related fields, paramedical fields, and physical education (pre-med. students should take A.P. - Chemistry). Students will study the functions of the human body from the level of organ systems to the cellular and molecular levels. Laboratory work is also a major part of this class. Students electing this course must also select course 0263 (see Wellness/Fitness) as these two courses will be team-taught.
Prerequisite: 'C' in Chemistry

0182: INDEPENDENT STUDY – SCIENCE

Students choosing Independent Study in Science must develop a project idea on their own, then approach a science teacher who would be willing to serve as a cooperating teacher. Students will propose a problem, do research, develop a hypothesis, design and carry out an experiment that tests the hypothesis. Conclusions must be drawn from the data and the whole project written up and presented in a format acceptable to the cooperating teacher. Meeting times, interim assignments, etc. will be determined with co-op. Independent study may last one semester or the entire year.

SOCIAL STUDIES

0549: HONORS MODERN WORLD STUDIES 1500 TO PRESENT (NCAA Approved Course)
0543: ACADEMIC MODERN WORLD STUDIES 1500 TO PRESENT (NCAA Approved Course)

This is a multi-disciplined survey course that studies the history of man; the course starts in the 1500's with the age of absolutism and concludes with the present. It includes the development of economics, society, religion, government, education, technology, the arts and influence of geography.
Prerequisite for all social studies honors courses: 'A' in past academic social studies classes or an 'A' or 'B' in honors, teacher recommendation.

0559: HONORS MODERN AMERICAN STUDIES 1920 TO PRESENT (NCAA Approved Course)
0553: ACADEMIC MODERN AMERICAN STUDIES 1920 TO PRESENT (NCAA Approved Course)

This is a multi-disciplined survey course of the development of the United States with an emphasis on the 20th century. Special attention is given to our development as a world power, economic and industrial development, political trends, and societal and cultural problems and achievements. Students will also study Pennsylvania's contributions as well.
Prerequisite for all social studies honors courses: 'A' in past academic social studies classes or an 'A' or 'B' in honors, teacher recommendation.

0569: HONORS GOVERNMENT AND ECONOMICS (NCAA Approved Course)
0563: ACADEMIC GOVERNMENT AND ECONOMICS (NCAA Approved Course)

This is a required course for all 12th grade students. The course is designed to give the student a comprehensive study of government and economics. The student will examine the functions of the government and rights and responsibilities of citizens. The student will study the role of the government in the economy as well as the economy's impact on the world.
Prerequisite for all social studies honors courses: 'A' in past academic social studies classes or an 'A' or 'B' in honors, teacher recommendation.

0582: ACADEMIC INTRODUCTION TO PSYCHOLOGY

Psychology is the study of behavior and the mental processes. This course will introduce students to the vast and diverse discipline of psychology and will provide the knowledge to better understand themselves, their lives and their community. This course may also provide a basic foundation for a college-required psychology class. *Grades 11 and 12.*
Prerequisite: 'C' or above in previous Social Studies class.

0584: ACADEMIC INTRODUCTION TO SOCIOLOGY

This introductory course in the behavioral sciences is appropriate for all 11th and 12th grade students. Topics to be discussed will include: the work of sociologists, cultural values and norms, social groups, social stratification, minorities in the social structure, social institutions (such as the family, education, religion, and government), social problems (ecology, crime, poverty, and aging), and the individual's relationship to society. The course will emphasize class discussion and practical experiences in sociology. The course will meet three periods per cycle for a semester. *Grades 11 and 12.*
Prerequisite: 'C' or above in previous Social Studies class.

0588: ACADEMIC WORLD WAR II

This elective takes an in-depth look at the causes, events, and effects of World War II. The war is evaluated from a military, political, economic, and social view. It is a credited course that requires a project, interview, and book report as part of the program. The course will meet three periods a cycle for a semester. *Grades 11 and 12.*
Prerequisite: 'C' or above in previous Social Studies class.

0548: ADVANCED PLACEMENT EUROPEAN HISTORY (NCAA Approved Course)

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. A set of readings are required during the summer and students will be assessed on their understanding of these readings.
Prerequisite: 'A' average in previous social studies classes and teacher recommendation

0550: ADVANCED PLACEMENT UNITED STATES HISTORY (NCAA Approved Course)

AP United States History is a yearlong survey of American History from the Age of Exploration until the present. Solid reading and writing skills along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative skills. Several research projects will be required. A set of readings are required during the summer and students will be assessed on their understanding of these readings before they are permitted to participate in the AP History class.
Prerequisite: 'A' average in previous social studies classes and teacher recommendation
(12th Grade may take as an Elective Only)

0599: ADVANCED PLACEMENT ECONOMICS (NCAA Approved Course)

The course is an in-depth study of microeconomics and a survey of macroeconomics. This course is designed to prepare the student to take the A.P. Exam in Microeconomics. An assignment in Economics will be required during the summer prior to taking the Advanced Placement course. Students will be assessed as to their understanding of those materials before being permitted to participate in the Advance Placement Economics Class. An 'A' average in previous Social Studies Classes is recommended. It is also recommended that students have A's in advanced math and advanced science courses before taking this course.
Prerequisite: 'A' average in past social studies courses, teacher recommendation.

TECHNOLOGY EDUCATION PROGRAM

Technology education teaches you about the technological world in which we live. It is our goal to provide you with the preparation necessary to live in and contribute to our society and to discover careers leading to new jobs.

1572: PHOTOGRAPHIC IMAGING

Are you interested in photography? In this exciting, hands-on course, you will learn the fundamentals of both film and digital photography. Use a state of the art SLR camera to capture vivid images you'll want to show your friends. Assignments include stop action, depth of field, macro and portrait photography, along with techniques to improve your photo-taking skills. Work in the darkroom to produce stunning photos, and learn to edit and print images quickly and easily in our digital photo lab. The class also provides opportunities to explore careers in the graphic arts, photography, and other forms of mass communication. *Counts as a computer credit.*

1574: ADVANCED PHOTOGRAPHIC IMAGING

Expand your interest of photography with this intense course! Express your creativity using advanced film and digital SLR cameras. Experiment with print coloring, studio lighting, special effects, panoramic photos, night-time photography, and lens filters. Work in our traditional darkroom to improve your understanding of advanced printing techniques; or work in our digital photo lab and learn professional image retouching techniques such as image adjustment and color correction. *Counts as a computer credit. Prerequisite: Photographic Imaging (1572)*

1541: DIGITAL COMMUNICATIONS

Ever wonder how some of the graphics are made on the products you use every day? In this class you will learn how to create the graphics and digital images that you see all around you. We will look at how to put designs on T-shirts, create vinyl graphics and decals for cars or windows, design album covers for your favorite bands, create cutting edge web sites with streaming audio and video, and many more things. Learn how to create graphics, logos, and high quality images that you can edit and use both on the internet and in print. This class is perfect for teaching you how to promote yourself, your business, groups or organizations…anything you need to communicate! *This class counts as a computer credit toward graduation.*

1566: ADVANCED COMMUNICATIONS

Take your graphics and communications talents to the next level in this class which will give you advanced techniques to enhance your graphic capabilities. Learn useful talents in creating multi-colored T-shirt designs, new printing techniques to give your work a professional look, and so much more! You will use digital photography and photo editing to generate your own graphics for the things you create, and even framing and matting photos like a professional. If you want to take your knowledge of graphics to the next level, work in many different mediums, and learn communications techniques you will use for the rest of your life…this class is for you! *Prerequisite: Digital Communications (1541); counts as a computer credit.*

1559: RESIDENTIAL DESIGN AND MODELING

Residential Design and Modeling is an exciting class that will enable you to use the basic skills learned in Architectural CADD to design a remodeling project for your own home or from a stock architectural plan. Examples of projects include: remodeling a kitchen, designing a deck and landscaped area, developing an interior color scheme, or planning for a recreation room in your basement. Chief Architect is a 3-D design program that will be used to develop your plans and to print out the paste-ups for the scaled model. This is a semester-long course that meets five periods per cycle (so it fits in your schedule neatly with your science labs and phys. ed. classes) and *counts as a computer credit.*

1542: TECHNICAL DRAWING AND DESIGN

Do you think a career as an architect, designer, draftsman, engineer, or related technical professional is for you? If so, then this course is a must. Technical Drawing and Design will cover the methods, materials, instruments and techniques of technical drawing as they relate to engineering and architecture. Students will begin with technical sketching and board drawing for a short period of time and progress to SolidWorks for the majority of the year. You will develop patterns, make 3-D models in SolidWorks, and create working drawing (three-view, section, and auxiliary drawings). Several former engineering and architecture students have reported that Technical Drawing and Design made their first year drawing and design course at college much easier. Emphasis will be placed upon problem solving, while you learn accuracy, pride, efficiency, and productivity. *This course counts as a computer credit.*

1551: ENGINEERING DESIGN

If you desire to be a designer, engineer, architect, or related technical professional this course is a must. In Engineering Design you will use the basic skills learned in Technical Drawing to design solutions to related engineering problems. The engineering method, a design development process, will be used as you create innovative working prototypes. Examples of possible activities are using SolidWorks to design a clay automobile and test its aerodynamics in a wind tunnel and use ergonomics to design a product of your choice that fits the human body. *This course counts as a computer credit. Prerequisite: Technical Drawing and Design (1542)*

1552: ARCHITECTURAL DESIGN

If you have a desire to be an architect, designer, engineer, or be the owner of a home some day this course is a must. In Architectural Design you will use Chief Architect, a 3-D design program, to solve problems related architecture. This course is intended to help students develop general knowledge of interior and exterior residential design. You will develop a set of architectural plans including site plan, floor plans, electrical plans, elevations, wall sections, and door/window schedules. An essential part of the design process will include making a scaled model of your design. *This course counts as a computer credit.*

1544: MATERIALS ENGINEERING

If you are contemplating a career as a materials engineer, manufacturing technician, plant manager, or related technical professional or enjoy making things this course is a must! Materials Engineering provides experiences that will allow you to understand how manufacturing technology is used to produce products and goods. You will use wood, metal, plastics, glass, and composites to make products. These products will teach you how to cast and mold, form by bending, cut materials, assemble by fastening (gluing or welding), condition by annealing or tempering, and apply finishes. You will work individually and cooperatively with other classmates during the year.

1545: RESIDENTIAL CONSTRUCTION

If you are contemplating a career as a civil engineer, estimator, carpenter, construction project manager, architect, electrician, plumber, or if you plan to own a home, this course is a must! This class provides experiences that will allow you to understand how construction technology is used to erect structures on site. You will use construction processes to read blue prints and plot plans, layout and set foundations, build wall sections, stairs and rafters, install electrical systems, and landscape a building site. You will work cooperatively with other classmates during each activity.

1547: TECHNOLOGY & ENGINEERING

Technology& Engineering Lab is a technology education course designed to provide a survey of activities in the areas of communication, construction, manufacturing, and transportation. You will work in pairs exploring the following interesting activities: digital imaging, page layout, electronics, architecture, carpentry, materials testing, flight, aerodynamics, mousetrap car, CAD, pneumatics & robotics, and CNC routing. You will also work with small groups and sharpen your problem solving and critical thinking skills while developing solutions to intriguing problems. You will be provided experiences to meet the PA Technology standards. This course may be used to fulfill the *computer credit for graduation*.

1557: TECHNOLOGY & ENGINEERING ADVANCED

Technology & Engineering Advanced course is offered to students who successfully completed Technology & Engineering (1547). You will participate in advanced level activities adding to your knowledge gained in your first year. The activities in this course are more complex and require larger blocks of time to allow more in-depth study. The activities are identified from the technology education areas of communication, transportation, construction, and manufacturing. Activities will include in communication: thermal screen printing & electronics; in materials testing: structure design & building; in manufacturing: design and fabrication; and in Transportation: CO^2 dragster competition. The advanced course will provide you with skills in research, leadership, and problem solving. This course may be used to fulfill the *computer credit requirement for graduation*.
Prerequisite: Technology and Engineering Instructor approval required.

1561: TECHNOLOGY RESEARCH AND DEVELOPMENT

Technology Research and development is an independent study course for students who have successfully completed advanced technology education classes. Technology Research and development provides you with the opportunity to concentrate in an area of selected study. You will follow the technological method including defining the problem, conducting research, developing, a plan, fabrication a model/prototype, and presenting your findings. You will maintain field notes; submit a proposal, quarter reports, and a final report.
Prerequisite: Architectural Design (1552) or Engineering Design (1551) or Technology & Engineering Advanced (1557) or Advanced Imaging (1566) or Materials Engineering (1544) or Advanced Photo Imaging (1574). Instructor Approval required.

1576: ADAPTIVE TECHNOLOGY EDUCATION

This class is restricted to students enrolled in the life skills and or learning support programs. In an adapted format, this class will present technological concepts and skills to students in a manner appropriate to student abilities. Activities will encompass transportation, communication, construction, and manufacturing areas.

PLEASE NOTE: If your schedule does not allow you to take one of these courses for six days of the cycle and you would like to take a particular course, talk to one of the technology education teachers. We may be able to make arrangements to adapt your schedule and allow you to take the class with an adapted schedule.

1581: INDEPENDENT STUDY – TECH ED

Students will follow the Independent Study requirements outlined to all students: Index, Syllabus, Weekly Journal, Weekly Self Evaluations, Two reflective pieces, Completed and Graded Assignments, Evidence of work, Major Project w/rubric, Final reflection writing. Independent study is designed to allow a student the opportunity to explore an area of interest and pursue a major project in that area. Students may schedule class time with the instructor to meet the needs of this study.
Prerequisite: Teacher recommendation and Department leader approval.

TELECOMMUNICATIONS

1671: TELECOMMUNICATIONS I Television Production (meet 3 times a cycle)

This course introduces students to studio and remote television production, including hands-on training in camera, sound, lighting, graphics, directing, recording, editing, script writing and on-air talenting, along with basic communication theory and concepts of mass media and society. Students will work all the equipment and jobs of studio television production and produce a number of programs. *Counts as a computer credit.*

1681: TELECOMMUNICATIONS II Television Production

TVII advances students' knowledge and skill in studio and remote television production in areas including script writing, directing, camera technique, stage presence, editing and DVD authoring. The course also covers broadcast journalism and work-management. Students will script, direct, shoot, and edit a number of productions, including features for BASH-TV. This course counts as a computer credit.
Prerequisite: Telecommunications I and teacher recommendation; counts as a computer credit.

1691: TELECOMMUNICATIONS III Television Production

TVIII is an advanced, applied program of study in studio television and video production, including work in program development, videography, and computer and special effects editing. Students work independently in the TV studio to produce original videos and work with district faculty and students to create programs and complete video assignments for BASH-TV and instructional television. This course counts as a computer credit.
Prerequisite: Telecommunications II and teacher recommendation; counts as a computer credit.

WORLD LANGUAGE

The World Language Department recommends that students take at least three (3) years of the same foreign language in order to achieve basic proficiency in that language as well as to ensure adequate preparation for foreign language study beyond high school. Students planning foreign language related careers should also consider taking one to two years of a second foreign language.

0651: FRENCH III **(NCAA Approved Course)**

Emphasis in this course is on the development of vocabulary for practical, real-life situations. Students study more complex structures. French history, art and literature are the basis for the development of reading and writing skills. Students will engage in many writing and listening activities.
Prerequisite: 'C' in French II.

0661: FRENCH IV **(NCAA Approved Course)**

Students continue the study of more complex structures through the study of vocabulary used in real-life situations. There is more emphasis on reading skills. Students will read poetry, short stories, novels and plays. They will view feature length films. Students are expected to participate in discussions, make oral presentations and write numerous compositions.
Prerequisite: 'C' in French III

0632: GERMAN I **(NCAA Approved Course)**

Students will develop listening and speaking skills. They will study grammar of the spoken language. Special emphasis on the German culture as seen in the daily lives of young people will be a focus.

0642: GERMAN II **(NCAA Approved Course)**

Students will continue the development of listening and speaking skills. They will continue to study grammar of the spoken language. Special emphasis on the German culture as seen in the daily lives of young people will be a focus.
Prerequisite: German I

0652: GERMAN III **(NCAA Approved Course)**

Students will focus on developing their listening, speaking, and reading skills. They will also develop writing skills and their understanding of various grammatical structures. A study of the German culture will continue.
Prerequisite: 'C' in German II

0662: GERMAN IV **(NCAA Approved Course)**

Students will focus on developing their listening, speaking, and reading skills. They will also develop writing skills and their understanding of various grammatical structures. Greater emphasis will be placed on reading and writing skills by the use of longer and more difficult readings. They will continue to study grammar and the German culture.
Prerequisite: 'C' in German III

0633: SPANISH I **(NCAA Approved Course)**

Introduction of basic conversational expressions. Development of vocabulary and basic grammatical structures. Main emphasis is on listening and speaking skills with basic introduction to reading and writing skills. Cultural aspects are introduced throughout the course.

0643: SPANISH II **(NCAA Approved Course)**

Increased vocabulary development. Further development of grammatical structures with emphasis on verb tenses and their usage. Continued emphasis on listening and speaking skills with increased reading and writing activities. Continued cultural aspects are discussed.
Prerequisite: Spanish I

0653: SPANISH III **(NCAA Approved Course)**

Increased vocabulary development. Intense and thorough review of grammatical structures with introduction of some advanced structures. Further development of reading and listening skills. Continued development of writing skills through guided practice exercises.
Prerequisite: 'C' in Spanish II.

0663: SPANISH IV **(NCAA Approved Course)**

Students will increase their Spanish vocabulary. They will participate in an intense and thorough review of grammatical structures including a focus on advanced structures. They will further develop their reading and listening skills. They will also continue their development of writing skills through guided practice exercises.
Prerequisite: 'C' in Spanish III

0654: SPANISH III (Dual Enrollment) **(NCAA Approved Course)**

In the first semester, the focus will be a study of fundamental Spanish grammar topics including exercises in speaking, reading and composition. Spanish will be spoken for the majority of class. In the second semester, more advanced grammar topics will be learned. Exercises in conversation, reading and writing will be more extensive. Students will be expected to work at a college-level pace and to devote a significant amount of time outside of class to studying and reviewing.
Prerequisite:'B' in Spanish II

0664: SPANISH IV (Dual Enrollment) **(NCAA Approved Course)**

A concentrated review of Spanish grammar as well as exercises in speaking, reading and composition will be the primary focus of this class. The majority of class is spoken in Spanish. Selected readings on Spanish culture and literature as a basis for developing skills will be used. In the second semester there will be extensive practice in selected readings, composition and conversation on a more advanced level. Students should expect to be working at a college-level pace and will be expected to devote a significant amount of time outside of class studying and reviewing.
Prerequisite: 'B' in Spanish III

SPECIAL EDUCATION

Courses are available in Social Studies, Science, Reading, English, and Math for students identified as in need of learning or emotional support. These courses, as well as opportunities for mainstreaming into regular courses, are assigned in accordance with the student's Individualized Educational Program (IEP). Schedules for Special Education students are determined in consultation with special education teachers and students, and approved by parents.

WORK/CAREER STUDY PROGRAM

The Boyertown Senior High School Special Education Department has designed the work/career study program to help eligible students explore a career or job interest in a hands-on-manner. Through employment or a career experience, students are provided with the opportunity to make a more informed decision about their future plans. The program utilizes supervision by both Boyertown Senior high school staff and a community sponsor/employer. Students receive credit towards graduation. The amount of credit corresponds to the number of periods of Work/Career Study time. Students in Special Education department who choose Work/Career Study as a course will be placed under the supervision of the Special Education Work/Career staff. Students should talk to their individual teacher of record to enroll in this course.

NON-CREDIT ACTIVITIES DURING REGULAR SCHOOL HOURS

The offerings described in this section are given on a non-credit basis. These activities are designed to broaden and enlarge the curriculum by adding topics of current or special interest to students in today's society. If you find an activity in which you would like to participate, please enroll. Keep in mind that these non-credit electives are for your enjoyment and participation. If you do not plan to participate, you should not enroll. Activities can be successful only if members are active participants.

3081: ACCENT – Literary Magazine
Accent is a member of the Pennsylvania School Press Association and is Boyertown High School's literary magazine. The book is published one to two times a year and provides a medium for publication of original student art, essays, short plays, poems, and short stories. Staff members are responsible for collecting, evaluating, and selecting material for publication, for layout and publication, and for financial accounting and distribution.

3082: BEAR - Yearbook
Staff members of the Bear, the senior high school yearbook, come from all grades of the high school. The Bear is a member of the American Scholastic Press Association, and is published in October of each year. Students who are interested in computers, photography, art, or writing and who are prepared to meet deadlines are welcome. The staff meets six periods a week, occasionally after school, and during the summer if needed. Staff members will be selected by the advisors. Editorial positions are assigned on the basis of experience. The Bear is reducing staff since moving to desktop publishing, therefore, applicants should apply, to the advisors, by mid-May of each year. The maximum number of Bear yearbook staff will be held to 30 in grades 10-12.
Prerequisite: Apply to advisors

3083: CUB – School Newspaper
The Cub is a monthly newspaper published by students in the senior high school. Students interested in journalism, news writing, feature writing, sports writing, cartooning, photography, and advertising can learn about the newspaper business and see their work published by the Cub. Staff meetings, when necessary, are held after school. The newspaper is a member of the Pennsylvania School Press Association and the Quill and Scroll, an international honorary society for scholastic journalism students.

MONTGOMERY COUNTY COMMUNITY COLLEGE COURSES

EDU 100: Introduction to Education (Dual Enrollment)

A study of educational theory, practice, and historical perspectives on education. Current issues in education are emphasized. Students examine the roles and responsibilities of teachers. A 30 hour field experience is required in most classes. Students who successfully complete this course will obtain 3 college credits (Tuition cost may be partially reimbursed) from Montgomery County Community College. **Possible book fee.*

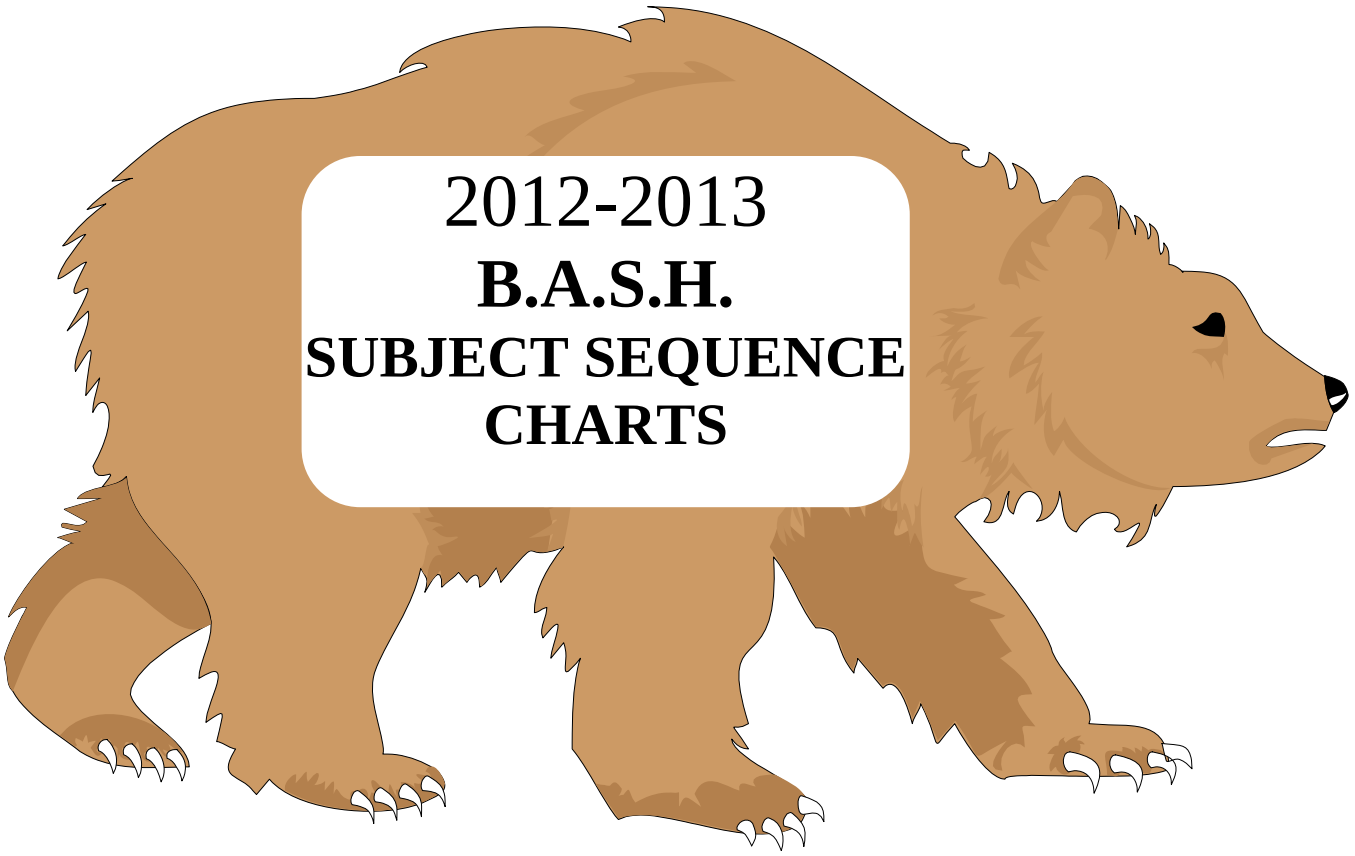
INDEPENDENT STUDY PORTFOLIO GUIDELINES

At the completion of an independent course of study*, the student must submit a portfolio that may contain the following contents:

1. Index – Identifying the sections of the Portfolio
2. Syllabus – Goals/Objectives of the Independent Study Program
3. Weekly Journal/Weekly Self Evaluation
4. Three Reflective pieces of an article on your independent subject area. (1-2 pages)
5. Completed & Graded Assignments/Tests/Quizzes/Projects w/ Rubrics
6. Pictures of any projects or activities completed during your independent study period.
7. Research Paper – Annotated Bibliography (3-5 pages) – MLA Format
8. Reflection Piece – "What have you gained from your independent study course?" (2-3 pages)

It is the student's responsibility to meet with their instructor at least once a week to review the syllabus, determine the contents of the portfolio and monitor the completion of the course objectives. The instructor will assess or review all materials and provide the completed portfolio to the school counselor's office at the end of each semester. Grades for the course will be entered by Department leaders at the end of each semester.

* Independent study courses that are for the whole year must adjust the portfolio content requirements to justify the extended time for completion of the course.



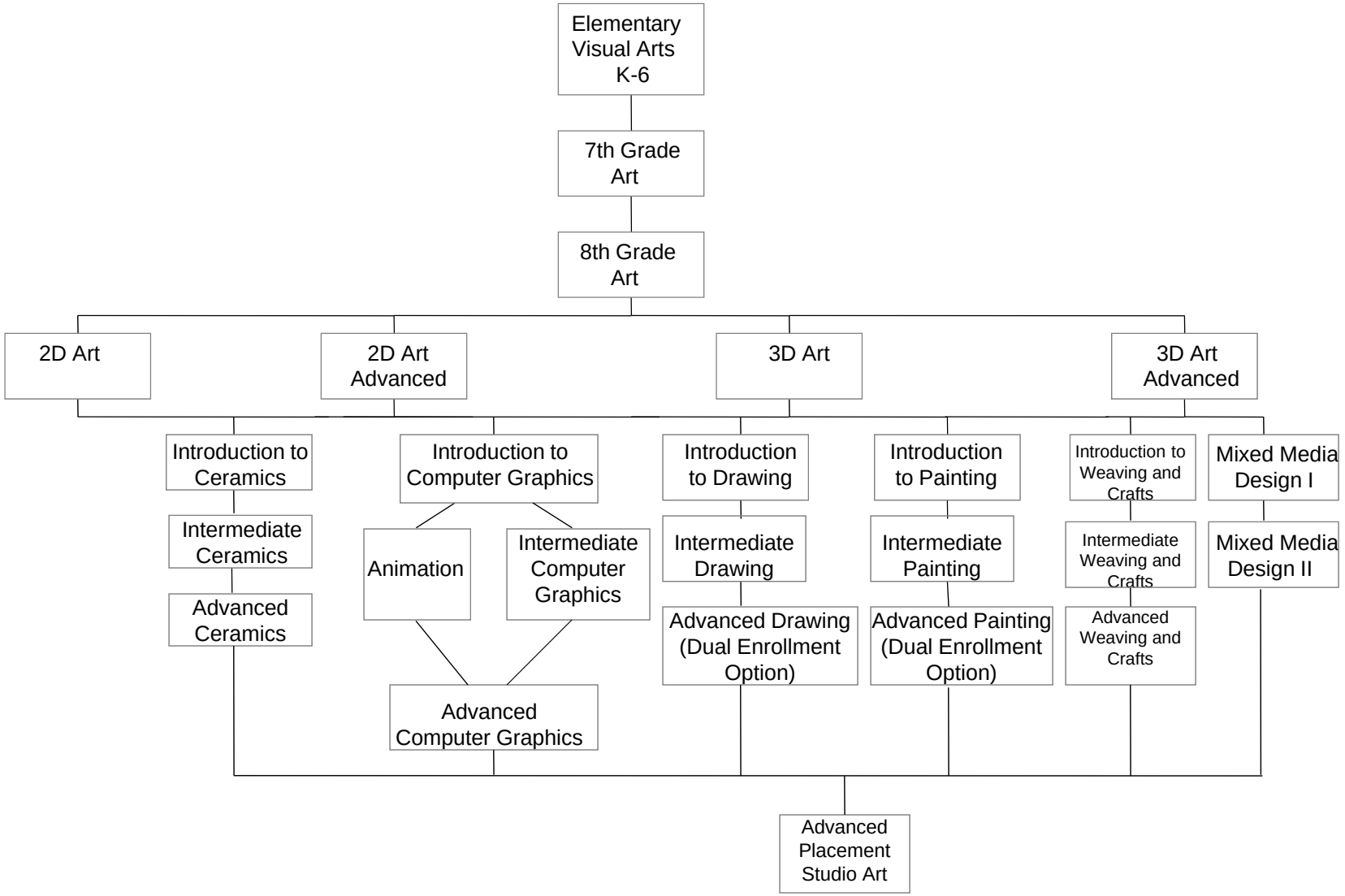
2012-2013

B.A.S.H.

SUBJECT SEQUENCE CHARTS

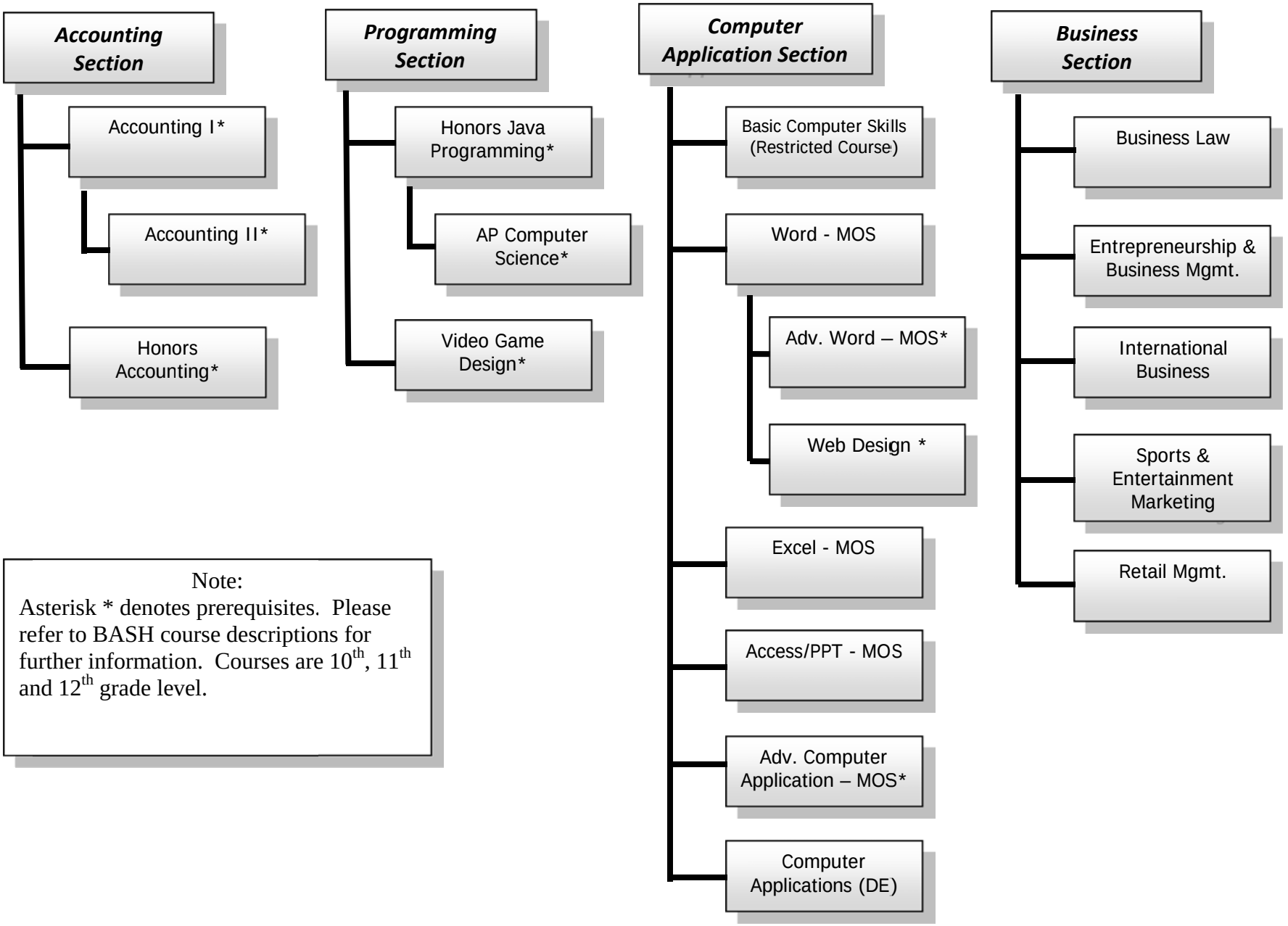
BOYERTOWN AREA SCHOOL DISTRICT

Fine Arts (visual) Course Sequence

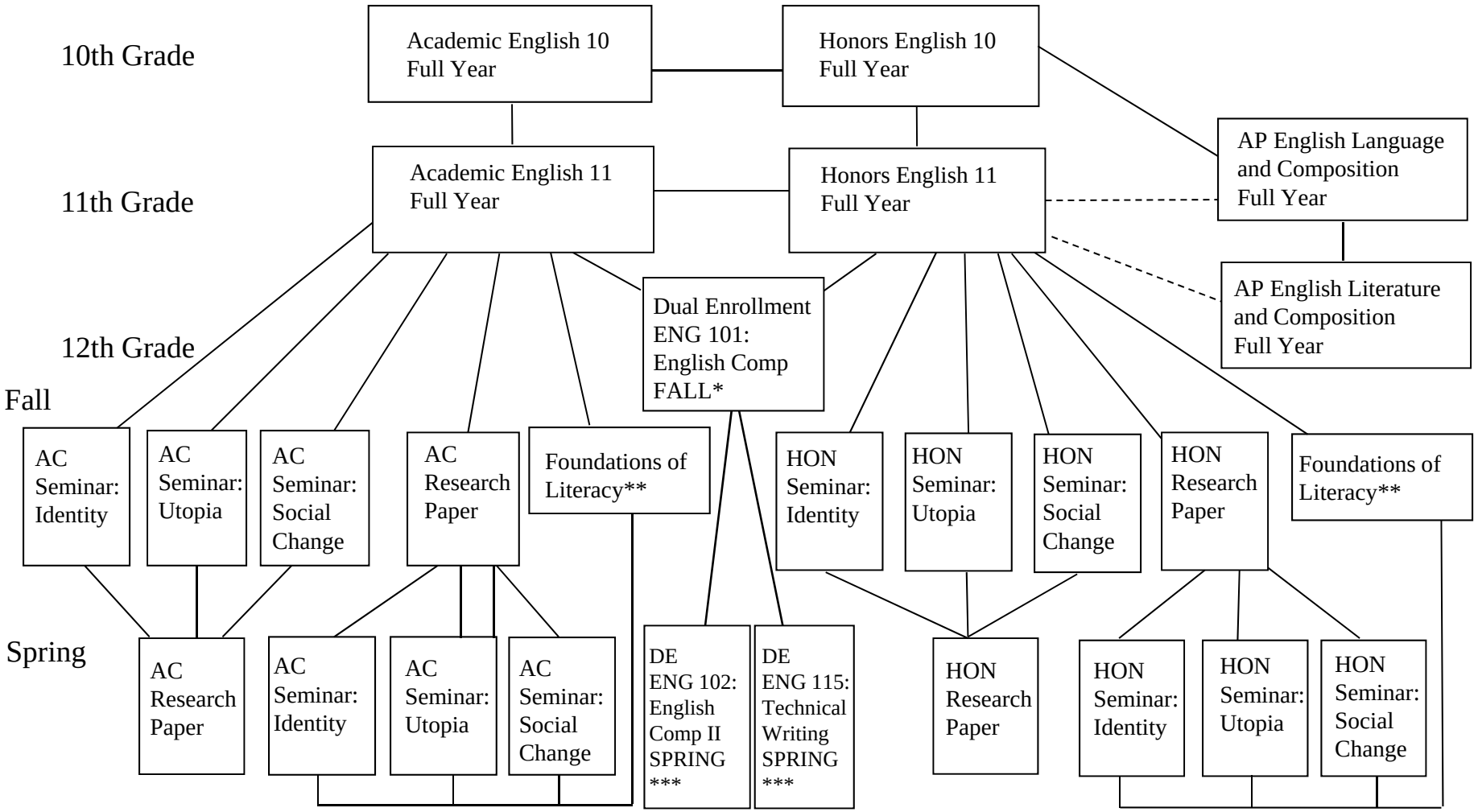


BOYERTOWN AREA SCHOOL DISTRICT

Business & Computer Science Course Sequence



BOYERTOWN AREA SCHOOL DISTRICT
English Course Sequence

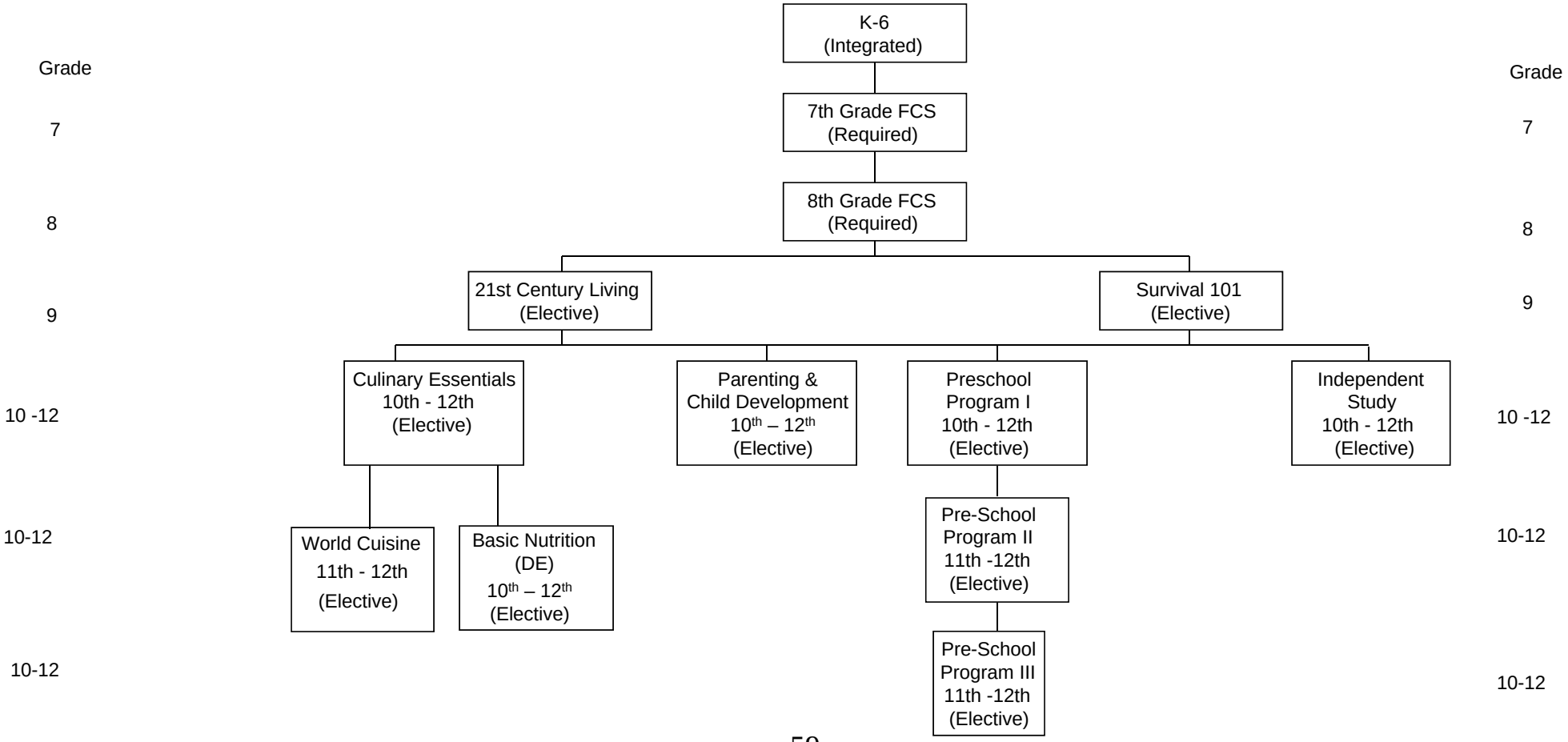


* Students must pass Accuplacer Test to receive College Credit
** Students scoring Basic or Below on 11th Grade PSSA MUST take this course
*** Students must earn a C or better in ENG 101 to take this course

BOYERTOWN AREA SCHOOL DISTRICT

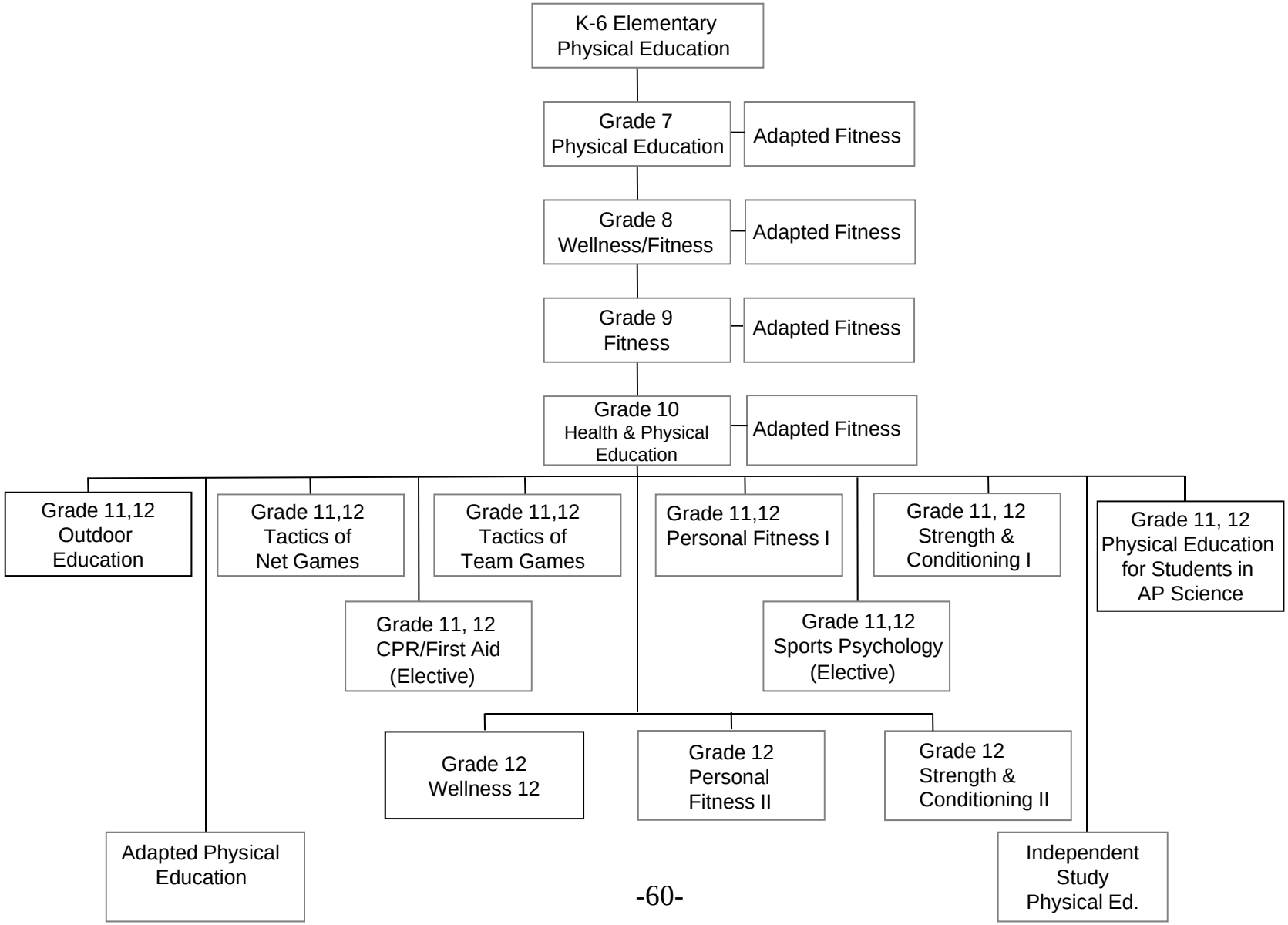
Family and Consumer Science Course Sequence

It is the mission of the Family and Consumer Sciences Program to enable all students to develop competence, compassion and fulfillment in managing their personal, family and career lives.



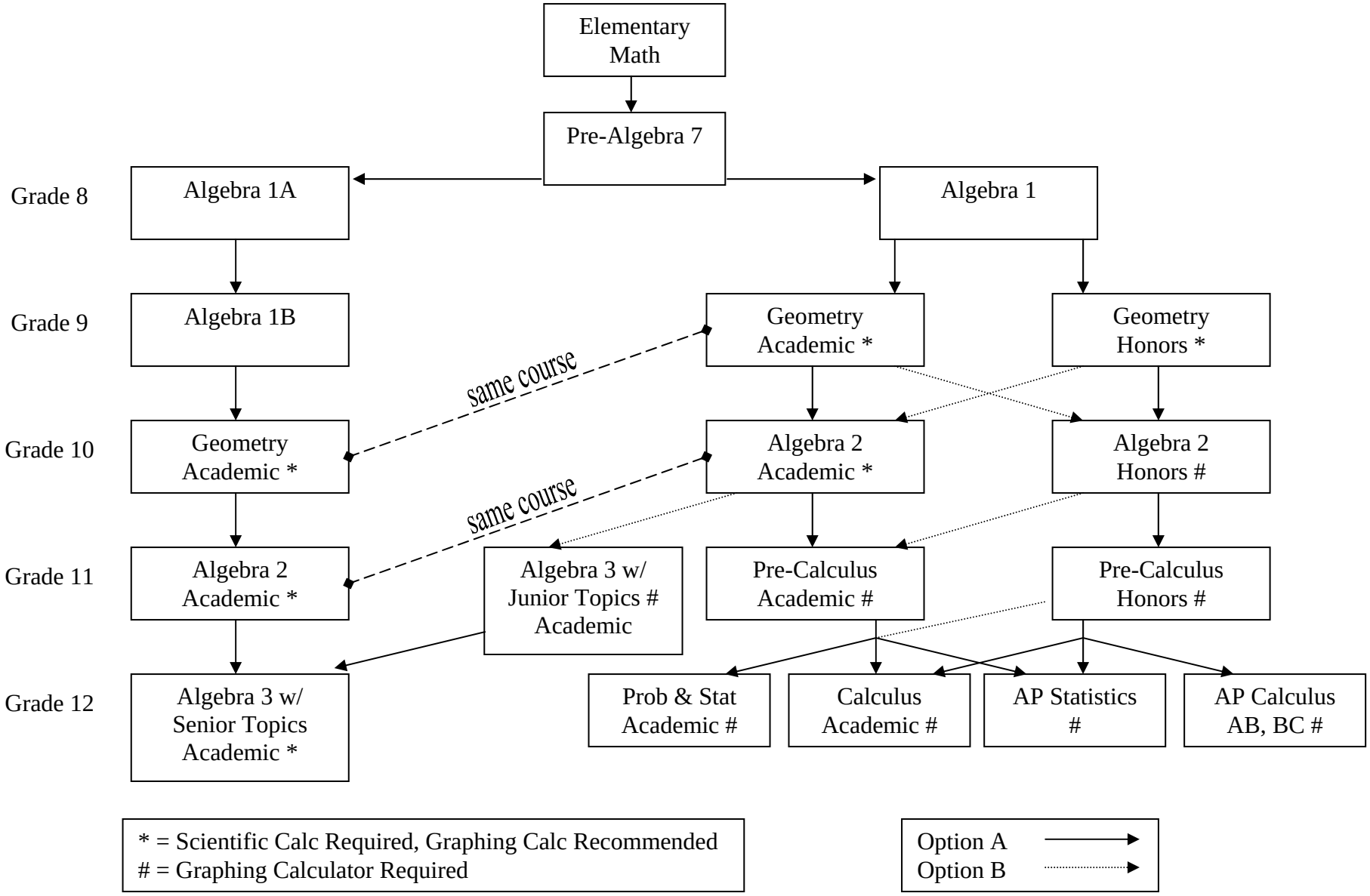
BOYERTOWN AREA SCHOOL DISTRICT

Health and Physical Education Sequence Chart



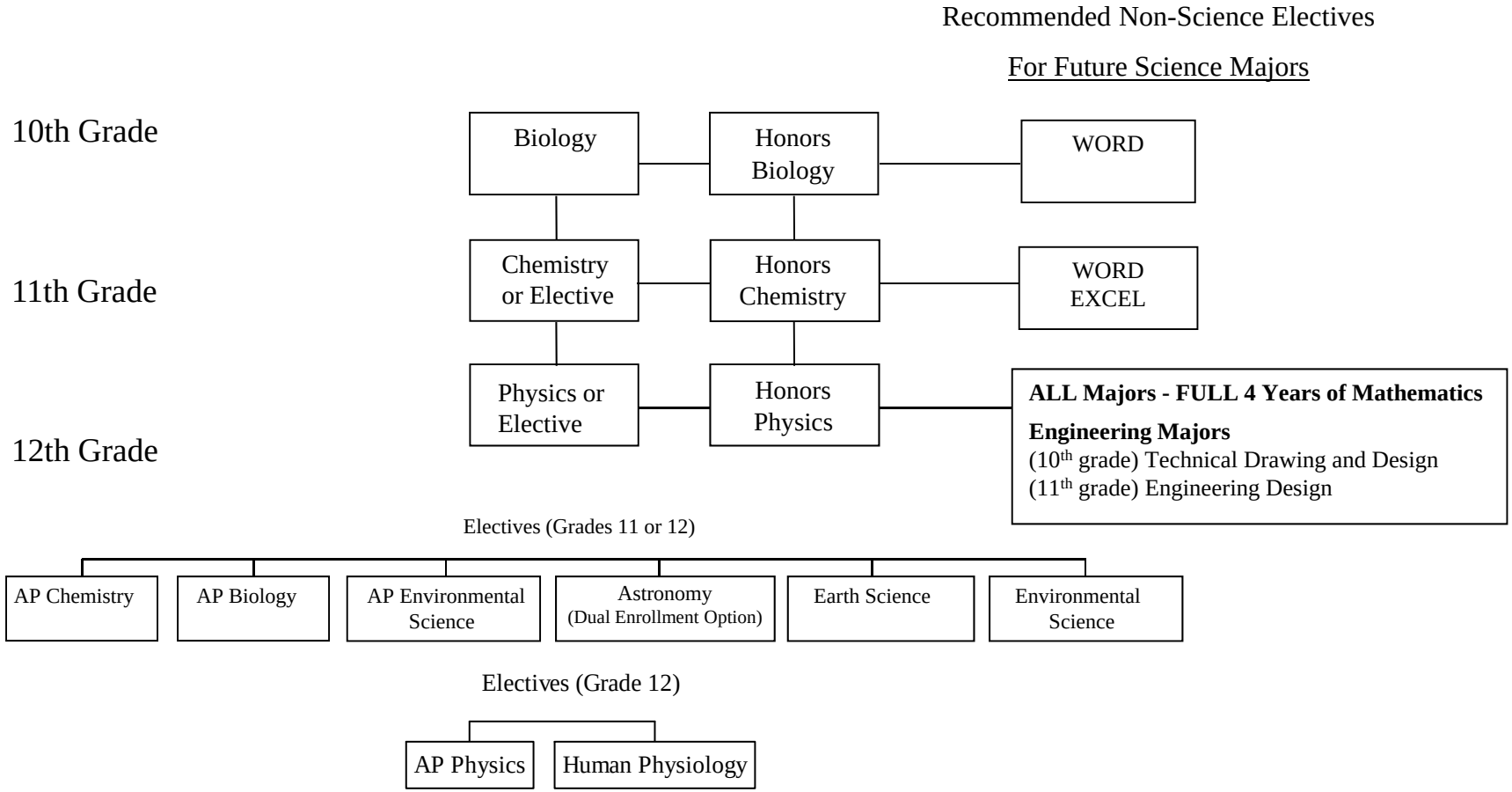
BOYERTOWN AREA SCHOOL DISTRICT

Math Course Sequence



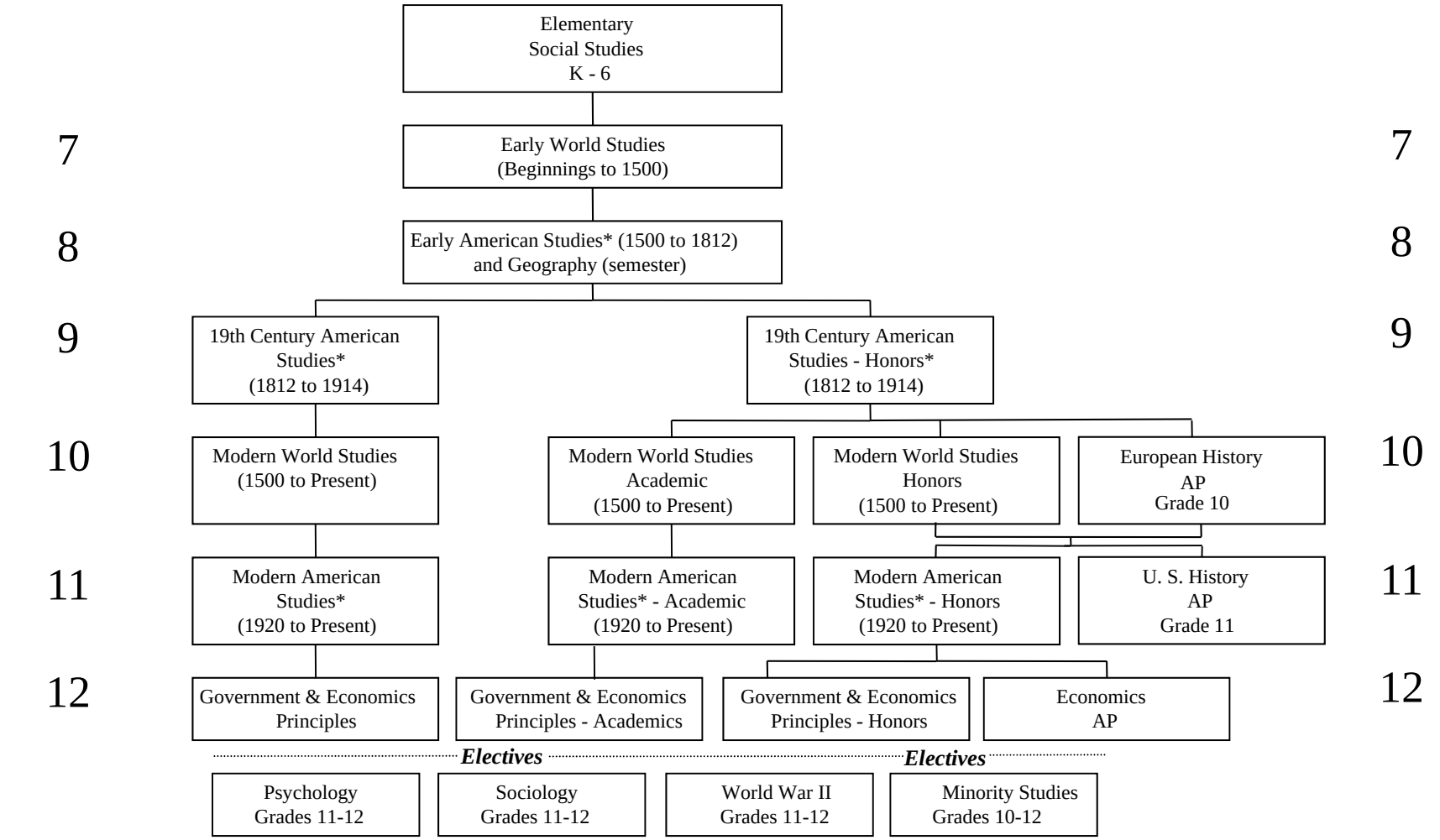
BOYERTOWN AREA SCHOOL DISTRICT
Science Course Sequence

In order to meet the state academic standards for graduation it is strongly recommended that students take one of the following sequences of sciences courses. Students may also take electives to augment their science program. Some courses may be taken simultaneously, provided all prerequisites are satisfied.



BOYERTOWN AREA SCHOOL DISTRICT

Social Studies Course Sequence



* with emphasis on Pennsylvania

Technology Education Course and Career Guide

The course offerings for the Technology Education Department are listed below. Class selections are organized by introductory, advanced, and capstone courses; along with a listing of careers and job opportunities that those classes may focus on.

INTRODUCTORY CLASSES GRADES 10-12

ADVANCED CLASSES GRADES 11-12

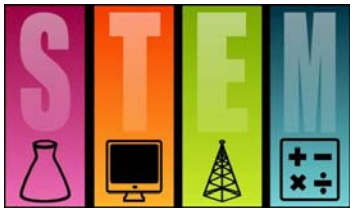
CAPSTONE CLASSES GRADES 11-12

Digital Communications

Advertising, Marketing, Printers, Event Planning, Web Design, Graphic Designer, Publishing

Advanced Communications

Higher Level Printing, Graphic Design, Advertising, Web Development, Marketing, Publishing.



Photographic Imaging

Photographer, Publishing, Film Processing, Journalism, Photo Editor, Art Director.

Advanced Photo Imaging

Higher Level Photographer, Publisher, Film Processing, Journalism, Photo Editor, Art Director, Studio Photographer.

Also Available in Gr. 10

Technology and Engineering

Mechanical Engineer, Product Design, Packaging, Electrical Engineering, CNC Tech, Civil Engineer.

Advanced Tech. & Engineering

Higher Level Engineering, CNC Tech, Prototyping, Materials Testing, Production Manager.

Tech. Research & Development

A personal study into the careers, techniques, skills, and trades that make up the Technology and Engineering Fields.

Materials Engineering

Material Scientist, Product Testing, Quality Control, Mechanical Engineer, Skilled Craft Worker

Residential Construction

Carpenter, Plumbing, Electrician, Builder, Masonry, Construction Engineer, Building Inspector.

Technical Drawing

Draftsman, General Engineering, Architect, Designer, Prototyping.

Engineering Design

College Prep. Class for all levels of Engineering, Design and Modeling, Aerodynamics, Prototyping.

Architectural Design

Architect, Interior Designer, Landscape Design, Construction, Real Estate Development

Residential Design & Modeling

Interior Designer, Landscape Design, Draftsman, Architecture.

Telecommunications 1

Journalism, Camera Operator, Director, Editor, Sound Engineer, Script Writing. Videographer

Telecommunications 2

Journalism, Camera Operator, Director, Editor, Sound Engineer, Script Writing. Videographer

Telecommunications 3

Journalism, Camera Operator, Director, Editor, Sound Engineer, Script Writing. Videographer

Available in Gr. 12 Only