BUTLER AREA SCHOOL DISTRICT

COURSE SELECTION GUIDE

2025-2026 School Year



Senior High School (Grades 9, 10, 11 & 12)

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PROGRAM OF STUDIES 2025-2026 SCHOOL YEAR BUTLER AREA SCHOOL DISTRICT WEBSITE: www.basdk12.org

Senior High School 120 Campus Lane, Butler, PA 16001 (724) 214-3200

PHILOSOPHY AND PURPOSE OF BUTLER SECONDARY SCHOOLS

The purpose of the secondary program is to help young people develop abilities enabling them to accept the responsibilities that our democratic society expects: to acquire knowledge, be selfdisciplined, tolerate and empathize with others, make sound political and moral decisions, earn a living, practice American citizenship, accept the social responsibility to plan for future generations, adjust to change, and to respect and appreciate life. Along with the fundamental skills of literacy and the ability to understand desirable attitudes and behavior related to civic responsibility, it is important that students gain an appreciation for the fine and practical arts. Butler Area School District provides a unified comprehensive curriculum to prepare students for continuing education or for entering the work force. The District strives to instill a desire for further learning and to aid in the maturation process of the student academically, socially, and emotionally.

Ideally, school is not a place, but an activity in which students need to participate, directly and enthusiastically. Education is not something one gives another but is rather a self-directed, continuing process that serves the needs and interests of the individual within the community. Each individual, regardless of background, interests, or inherent abilities, deserves the chance to learn and succeed through school experiences. These educational experiences should provide opportunities for self-expression and individual creativity developed in an atmosphere based on cooperation and mutual

respect, among students, parents, teachers, administrators, and all members of the community it serves.

ADMINISTRATION

Superintendent	Dr. Brian White, Jr.
Asst. Superintendent	Dr. Brian Slamecka
Asst. to the Superintendent	Dr. John Wyllie
Director of Curriculum,	Dr. Laura Miller
Instruction & Prof Dev	
Director of Special Ed.	Mr. Aaron Royhab
Asst. Director of Special Ed.	Mrs. Cari Boozel
Asst. Director of Behavioral	Mr. Curt Springer
Services	
Sr. High Principal	Mr. Jason Huffman
Sr. High Asst. Principal	Ms. Alicia Beighley
Sr. High Asst. Principal	Mr. Doug Ford
Center Ave. Principal	Mr. Keenan McGaughey

ACADEMICS

(Program of Studies & Curricula)

We strongly urge students to plan their academic programs with goals in mind. Any requirements for post-secondary careers should be considered in course selections.

Career decisions should be made carefully and with the help of all resources available within the school: the Career Readiness Software, Xello, where lessons and activities are posted, and the counselors themselves. When possible, students are encouraged to utilize community resources as well before making a career choice.

COLLEGE IN HIGH SCHOOL

High school students have the opportunity to take college-level courses through College in High School (CHS) programs. These programs allow students to experience college coursework while still in high school, helping them prepare for future academic challenges.

- College in High School (CHS) courses are taught on the Senior High School campus by high school teachers in partnership with a college or university. Students have the option to take these courses for high school credit only or pay for the college credits if they choose.
- Dual Enrollment courses are provided directly by the college or university, typically on the college campus or online. These courses are taught by college professors. Currently, our only Dual Enrollment offerings are through the Early Pioneer Program, run through our partnership with Butler County Community College (BC3).

Benefits:

- Earn college credits at a reduced cost while still in high school.
- Gain experience with college-level expectations, improving academic readiness.
- Explore potential career paths and college majors before committing.
- Develop essential skills such as time management, critical thinking, and selfdiscipline.

Considerations:

 Transferability of Credits: Not all colleges and universities accept CHS or Dual Enrollment credits. Students and their parents/guardians should contact prospective colleges and universities to learn about their specific credit transfer policies before committing to pay for the credits associated with these courses. Even when course credits are accepted they are sometimes not accepted for specific majors.

- Academic Expectations: College courses require independent study, strong organizational skills, and a commitment to rigorous coursework.
- Cost: While these courses are often more affordable than traditional college tuition, families should evaluate the cost versus the likelihood of credit transfer.

Taking College-Level Courses Without Credit:

Even if students choose not to pay for the college credits, taking advanced courses can provide valuable preparation for future college experiences. Engaging in challenging coursework can strengthen study skills, boost confidence, and ease the transition to a college or university setting.

Students and families are encouraged to consult with school counselors and contact prospective colleges and universities to determine the best options based on their academic goals and future plans.

We continue to expand our articulation agreements with multiple colleges and universities to offer additional courses as College in High School opportunities. The courses listed in this catalog reflect our anticipated approvals from partner institutions. As new articulation agreements are finalized and additional courses receive approval, we will promptly communicate updates to students and families.

We recognize that many post-secondary institutions offer opportunities for high school students to earn college credit through other pathways and we encourage students to both

explore those and participate in them if they align with post-secondary goals. However, college credits earned outside of the official partnerships established by Butler Area School District will not be awarded credit toward a diploma, calculated into students' QPA, nor be reflected on students' high school transcripts.

BASD & BC3 EARLY COLLEGE PIONEERS

PLAN FOR 2025-2026

The purpose of the Early College initiative is to provide Butler Area High School seniors with an on-campus college experience that reflects the schedule, pace and expectations of a post-secondary setting, while offering them a broader selection of courses most appropriate for post-secondary plans and allowing them to begin satisfying requirements for future programs of study.

Seniors will spend the first three periods of the high school day on campus at Butler County Community College, or in transition between the institutions. Transportation will be provided by Butler Area School District. As noted below, students will be enrolled in 7 credits of college coursework each semester. While most four-year institutions accept the three-credit courses from BC3, if you have an institution of matriculation in mind, you may want to check on transferability. The two one-credit courses will certainly be counted by BC3, but may or may not transfer to another institution.

Cost for the Early College Pioneer Program will be \$0 for the first 40 seniors who submit their BC3 applications and are accepted for the program. Those beyond that number will be responsible for a cost determined by the amount of additional funding available through BC3 and/or BASD grants.

Schedules Fall 2025

	Monday	Tuesday	Wednesday	Thursday	Friday
Group 1	College Writing	Speech	College Writing	Speech	College Study Skills OR Reading Westing 8
Group 2	Speech	College Writing	Speech	College Writing	Reading, Writing & Reasoning

Course Descriptions

ENGL-101 College Writing (3 Credits) ENGL-101 College Writing (3 Credits) This course stresses the writing process of planning, organizing, drafting, revising, and editing multi-paragraph essays. Methods of invention, types of development, and the mechanics of effective academic composition are included as well as discussion of plagiarism and source documentation. This course meets the General Education competencies of Information Literacy (IL) and Written Communication (WC).

ENGL-031 Reading, Writing, & Reasoning (0 Credits / 1 Institutional Credit) The course is designed for students requiring skill review/support for success in English 101. It is an integrated study of reading strategies and college-level composition skills. Requisites: Take ENGL-101 with the same instructor based on placement test scores. - Must be taken at the same time as this course.

GENL-101 College Study Skills (CAPS) (1 Credits) This course provides an opportunity for students to explore a variety of issues related to college success. The course will focus on study skills and personal development and will include the following topics: goal setting, campus resources, note-taking, textbook reading, time management, stress management, test preparation, test taking skills and communication skills.

COMM-201 Speech (3 Credits) This course examines the functions and methods in contemporary public speaking through preparation of effectively organized ideas and dynamic verbal interpretation. The student is given opportunities to develop proper speaking habits, effective listening techniques, standards of criticism, and awareness of the ethical responsibilities of a speaker. This course meets the General Education Competency of Oral Communications (OC).

Schedules Spring 2026

Session	Monday	Tuesday	Wednesday	Thursday	Friday
Group 1	College Research	Economics - Micro	College Research	Economics - Micro	Financial Literacy
Group 2	Economics - Micro	College Research	Economics - Micro	College Research	Literacy

Course Descriptions

ENGL-102 Research (3 Credits) The emphasis of this course is upon persuasion, evaluation, research and writing the research paper. There will be a continuation of careful editing of grammar and sentences. Students will continue the study and writing of thoughtful and organized expositions. This course meets the General Education competency of Critical Thinking (CT).

ECON-102 Economics-Micro (3 Credits) Principles of Economics - Micro Approach is a basic study of market models: the price system, wage determination, labor sector, foreign economies and current economic problems.

BASD Course Numbers for Scheduling Purposes

<u>Fall</u> <u>Spring</u>

EW35EC - College Writing EW40EC - College Research

ES35 - Speech HE35 - Economics - Micro

CS35 - Study Skills BC3FL - Financial Literacy

COMMUNITY COLLEGE OF BEAVER COUNTY

Students in grade 11 and 12 will have the opportunity to pay a tuition fee and earn a minimum of 12 postsecondary credit hours through the Community College of Beaver County

(CCBC) while participating in the Professional Piloting or Air Traffic Control programs. These courses are taught in conjunction with Butler County Community College and are available there and at the Butler County Airport. Students are required to complete an application, receive a recommendation from his or her school counselor, provide a transcript and possibly take placement exams. Students are required to maintain a minimum 2.0 GPA throughout enrollment in CCBC courses.

SPECIAL EDUCATION SERVICES

The Butler Area School District is responsible for providing students with disabilities an individualized education program (IEP), tailored to their unique needs in grades K-12. For students who receive Special Education services, your student's current Special Education case manager will collaborate with you, general education teachers, school counselors, and building administrators to make scheduling recommendations for the upcoming school year.

For those students who receive special education services who will be transitioning to a new building for the upcoming year, their current case manager will work to review strengths, needs, services, and scheduling recommendations with the Special Education team at the receiving building. Please be in contact with your student's current Special Education case manager with questions or concerns specific to your student's program.

GUIDANCE PROGRAM

Every student in grades 6 through 12 has a counselor who is available to assist students and

parents in planning programs of study for high school and post-high school needs. The counselors are also responsible for such special services as testing, college fair, career programs, assistance with plans for college, including information and help for those with financial problems, and personal adjustment. The services of the school psychologists are also available for any special testing which might be required for specific students.

A plan for every student is our goal and we urge each one, together with his/her parents, to review carefully his/her individual plans with the counselor. Administrative personnel will assist with planning as opportunities arise. Any student who has an educational, vocational, or personal problem is encouraged to visit the Guidance Office and discuss it with a counselor. Students may stop before school or between classes and secure a guidance permit for an appointment with a counselor.

GUIDANCE STAFF

Senior High School

<u>Last Name</u>	<u>Counselor</u>
CTP	Ms. Shannon McGraw
A - D	Ms. Sarah Beneigh
E – K	Ms. Mary Caton
L – R	Ms. Alecia Mowrey
S-Z	Ms. Rachel Scherer

WITHDRAWALS

Any student withdrawing from school should report first to the school counselor for a brief exit interview. Arrangements can then be made for the student to fulfill any remaining obligations to the Butler Area School District. After the Guidance Office receives a request from the student's new school, a transcript of grades and other records can be sent.

SECONDARY GRADING POLICY PROCEDURE

The grading procedure in grades 6 through 12 should reflect a fair and consistent evaluation of

a student's academic achievement.

During the first week of the course, the teacher will provide students with the following information pertaining to grades:

- Whether or not a final examination will be used and what value it will have on the final grade. Comprehensive semester exams will be administered in English language arts, world language, mathematics, science, and social studies classes in grades 9-12.
- Assessment procedures such as achievement on tests and quizzes, class participation, evaluation of homework, research papers, and make-up policy resulting from absence will be used.

At both the Intermediate and Senior High Schools, a student must complete the entire course in order to receive credit. Partial credit will not be awarded for any course, regardless of the quarterly grades achieved. This applies to both full year and semester courses.

Course final grades will be calculated by averaging percentages. Full-year courses in grades 9-12, English Language Arts, math, science, social studies, and world language course final grades will be calculated using each of the four nine- week percentages weighted at 20% and each of the semester exams weighted at 10%. Final grades for all other full-year courses will be an average of the four nine-week percentages. Final course grades for semester social studies classes at the Senior High School will be calculated using each of the two nine-week grades as 40% and the semester exam grade as 20%. For all other semester courses, the percentages from the two nine-week grades will be averaged.

MARKING SYSTEM

Butler Area School District uses a five-letter grading system: A, B, C, D, E. Students should know the basis on which marks are determined and continually strive to meet the requirements. The following is the grading scale for the Butler Area School District.

Α	Superior	100%-90%
В	Above Average	89%-80%
С	Average/Fair	79%-70%
D	Lowest Passing Mark	69%-60%
Ε	Not Accepted For Credit	59% & Below

Final averages will be determined using the following weights.

GRADES 9-12

1 st	Nine Weeks	20%
2 nd	Nine Weeks	20%
1 st	Semester Exam	10%
3 rd	Nine Weeks	20%
4 th	Nine Weeks	20%
2 nd	10%	
Fir	100%	

REPORT CARDS/REPORT PERIODS

- Grades will be issued to students at the end of each quarterly (nine week) grading period. Report cards will be uploaded online for parents to view. A computer-generated report card will be mailed home only to those students without Internet access after all grades have been entered into the student grading system.
- Mid-quarter progress reports will be posted online when a student is failing, is in danger of failing, or has dropped two or more letter grades since the previous report card. Progress reports will be mailed home to those students who do not have Internet access.

UNIT OF CREDIT

Unit of Credit is a standardized measure of achievement devised and adopted by the Pennsylvania Department of Education to designate the quantity of work completed in individual subject fields.

CREDITS NECESSARY FOR PROMOTION

In grades nine (9) through twelve (12), one's class standing is determined by the number of satisfactorily completed courses, including courses required of all students, and the number of credits attained. At the end of grade nine (9), a student must have earned at least four (4) credits, with two (2) of the four (4) credits in core area courses, to be assigned to grade ten (10). By the conclusion of grade ten (10), each student must have earned at least ten (10) credits, with at least one (1) English credit and five (5) additional core credits, to be assigned to grade eleven (11). To be promoted to grade twelve (12), a student must have earned fifteen (15) credits, or fourteen (14) for students enrolled in Butler County Area Vocational Technical School, with nine (9) of the fifteen (15) credits earned in core area courses. A credit is based on the satisfactory completion of a course which has been offered for the equivalent of five (5) classes of at least forty (40) minutes for thirtysix (36) weeks.

SUMMER SCHOOL

A program is available in the summer for those students who need to make up failures in the core subjects or who wish to free up room in their schedules by taking Physical Education early. Summer school schedules and applications will be available on-line and in the guidance office.

Physical Education may also be taken in the summer as an accelerated course (applies only to students entering 10-12 grades). Upon the recommendation of the school administration and physical education department, the Board Education committee has approved the following

guidelines for summer school physical education:

- 1.The District will offer as many classes as can be accommodated at the two secondary schools. Summer school will not be offered at elementary sites.
- 2. If there are more requests than can be accommodated, registration will be by lottery.
- 3. Students who schedule summer school physical education must have seven (7) periods of classes for the fall and spring semesters of the upcoming school year. Once a student has taken summer school physical education, he or she will not be permitted to drop a class during the school year unless it is a drop/add approved by the principal.
- 4. Students who elect summer school physical education will be expected to participate fully in all activities, including swimming. Students with medical conditions preventing them from swimming <u>must</u> submit documentation from a physician <u>prior to the</u> first day of class.

If you have any questions regarding the summer school physical education program, please contact your building principal.

POLICY ON REPEATED SUBJECTS

When a student passes a subject and chooses to repeat the course to increase his/her knowledge of that area, the following provisions apply when determining the quality point average: the grade given at the completion of the course the first time and the second time will be used. When a student fails a subject and repeats the course to obtain credit for it, the quality point for the "E," as well as the quality point for the passing grade are included in the student's final average.

CREDIT CHECK FOR GRADUATION

Beginning in grade nine and continuing through grade twelve, guidance counselors will monitor each student's credit count and notify students and parents of any credit deficiency.

Students should make up failed courses as soon as possible to maintain the proper credit count.

Summer School options are available for students to make up failed courses.

GRADUATION REQUIREMENTS

<u>A minimum of 23 credits</u> in the ninth, tenth, eleventh, and twelfth grade is required for graduation. Required subjects that are failed must be rescheduled and completed with passing grades.

CourseCreditsEnglish Language Arts4.0

English 9 (Required, 1 credit)
English 10 (Required, 1 credit)

English 11 (Required, 1 credit)

English 12 (Required, 1 credit – can be earned by taking both BC3 College Within the High School courses)

Mathematics* 3.0

See Math Flowchart (pg. 55)

*NOTE: Three full math credits must be earned between grades 9 through 12, regardless of the level of mathematics courses.

Science 3.0 See Science Flowchart (pg. 83)

Social Studies 4.0

World History to 1450 (Required, 1 credit)
World History from 1450 (Required, 1 credit)
AP World History (can replace World History
from 1450)

Modern Amer. History (Required, 0.5 credit)

American Government 11 (Required, 0.5 credit)

Economics 12 (Required, 0.5 credit)

A.P. U.S. (can replace Modern American History and American Government)

A.P. European History or A.P. Comparative Government (can replace Economics)

A.P. Macroeconomics (can replace Economics)

Electives: Law I, Law II, Current Events, Sociology, Psychology, and/or Geography (Required, 0.5 credit) **Arts/Humanities**

2.0

Two units Humanities, or two units Arts
- OR –

One unit Arts and One unit Humanities
Arts: Visual Arts, Practical Arts (includes
Industrial Arts and Family & Consumer
Sciences), Music, Band, Chorus, Leadership (4th
year only)

<u>Humanities</u>: Social Studies, English, Language, Philosophy

Comprehensive Personal Health 0.5

Freshman Seminar 0.5
Beginning with the Class of 2029

Physical Education 1.0

Physical Education 9 (Required, .25 credit) Physical Education 10 (Required, .25 credit) Physical Education 11 (Required, .25 credit)

Physical Education 12 (Required, .25 credit)

STEM 1.0

"Science, Math, Tech Ed., Computer, Radio/TV Production, Audio Recording, BAVTS Programs"

Electives 4.5

Elective credit is earned for any course a student passes that is not used to meet specific graduation requirements

TOTAL 23 Credits

Approved: Board of School Directors
April 18, 2016
March 10, 2025

Act 158 REQUIREMENT CHECKLIST

In order to earn a high school diploma in Pennsylvania, in addition to each school district's credit requirements, a student must meet an additional requirement, intended to be Option I listed below, but other paths are available. There are details to each of these not written here, as this is only an overview intended for awareness purposes. Counselors are tracking this for each student.

<u>Optio</u>	n 1 & 2:							
Proficient/Advanced on ALL of the following Keystone Tests (Option1):								
Composite score of 4452 on all 3 Keystone Tests (Option 2): Or Composite score of 2939 on 2 Keystone Exams and one 2020 Proficiency								
	Alg	ebra I Score:						
	Lite	rature Score:						
	Bio	logy Score:						
	Tot	al Score:						
	rt of Option	ons 3, 4, & 5: for:						
a)	English 10		Algebra I			Biology]
b)	English 10		Math 11			Science 11		AND
Optio	<u>n 3:</u> One	of the followi	ng					
	SAT:	1010+						
	PSAT:	970+						
	ACT	21+						
	ASVAB	<u>+</u> 31						
	Acceptance letter to a 4-year							
Option 4: Three TOTAL Pieces of Evidence								
• 3 • A	3+ AP Exam Acceptance to 4-year Attainment of	f an industry-reco	onprofit institution other onprofit institution other ognized credential current enrollment or p	er than	●S ●P ●A	Proficient or advar A letter guarantee Certificate of comp	nced on a Keys ing full-time e oletion for an	employment
Option 5: Vo-tech grade 10 grade 11 grade 12								
Optio	n 6: NOT	ES:						

CLASS RANK

Class rank calculations shall begin when a student enters ninth grade. Algebra I, Basic and Advanced Computer Programming, and world languages taken in grades 7 or 8 will show on transcripts, but not affect class rank.

Class rank will be based on a weighted cumulative GPA for which quality points are assigned to final course grades as follows:

A=4.0 B=3.0 C=2.0 D=1.0 E=0

Additional points for courses with Honors (0.0125) or Advanced Placement (0.0500) designations will be added to the cumulative GPA to arrive at the weighted value used for class rank.

REQUIREMENTS FOR PARTICIPATION IN GRADUATION CEREMONIES

SENIORS MUST COMPLETE ALL GRADUATION REQUIREMENTS IN ORDER TO PARTICIPATE IN COMMENCEMENT!

Seniors will be notified of their status relating to graduation throughout the school year.

Seniors who are not able to schedule enough courses for the spring semester to fulfill graduation requirements will not be permitted to participate in the Commencement program. Notifications of non-participation in the Commencement program will occur through a letter being sent to the student's residence.

Seniors who have earned the correct number of credits at the conclusion of the fall semester and fail a course which is necessary to meet graduation requirements in the spring semester will not be permitted to participate in the Commencement program. When progress reports are issued for the fourth quarter in the spring semester, efforts will be made to notify seniors who are in danger of failing a course that they may not

be eligible to participate in the Commencement program. The student may participate in the graduation exercise should the course be completed satisfactorily by the conclusion of the spring semester. Students may participate in the following year's graduation ceremony upon completion of graduation requirements.

ISSUANCE OF DIPLOMA

Butler Area School District will only issue diplomas to students who have fulfilled graduation requirements adopted by the Board of School Directors of the Butler Area School District.

Diplomas will be ordered for students completing graduation requirements following their senior year only after verification that all course requirements have been satisfied.

Students must complete graduation requirements by the end of the summer following Commencement to receive a diploma for that calendar year. Students who return the following school year to complete graduation requirements will receive a diploma at the end of that school year with that graduating class.

SENIOR ACTIVITIES

- A. Seniors will be permitted to participate in all senior activities with the exception of Commencement whether or not they meet graduation requirements.
- B. Final determination of a student's participation in a senior activity rests with the building principal.
- C. Any exceptions to this policy must be addressed to the Board of School Directors by the Butler Senior High School Principal, in writing, for action prior to Commencement.

PERMANENT TRANSCRIPT

Permanent transcripts are maintained for 99 years for all students. These provide a record of all student grades as well as class rank.

Additional educational records are available upon request, but for shorter time periods.

REQUESTING TRANSCRIPTS

Students applying to college must submit an official transcript from the guidance office. It is the student's responsibility to pay for postage. The student of record must sign the release form in the guidance office to request transcripts.

COLLEGES & UNIVERSITIES

All colleges have requirements for admission. These relate to the courses taken in high school and include rank in class, school recommendation, test scores, interviews, and extra-curricular activities.

A.Specific Requirements

- Generally, a student must submit 15 or 16 credits taken in grades 9 through 12 in the academic fields of English, social studies, math, science, and world languages.
- 2. Beginning with ninth grade, all subjects and grades are listed on high school transcripts and counted as part of the credits for admission. Algebra I, Geometry, French I, German I, Latin I, or Spanish I taken in grades 7 or 8 will also be listed on the high school transcript and counted as elective credits; however, these courses will not be used in calculating a student's grade point average and class rank.
- 3. To best prepare for college, a student

- must carry a minimum of four academic subjects a year; five are recommended.
- 4. It is not wise to prepare to meet only the minimum requirements for college. Many students change their minds, and the minimum requirements for one school may not be adequate for admission to another.

B.Supplementary Requirements

- 1. <u>Class Rank</u>: The emphasis is on the quality of work in academic subjects rather than quantity of credits. (See page 8 Class Rank)
- 2. Recommendations: Students needing a letter of recommendation from their school counselor or teacher should give at least two weeks' notice before the application is due. Students must provide any necessary forms needed to be completed.
- 3. College Entrance Tests: Most colleges require standardized testing as part of their admission process. This is done either through the SAT or the ACT.

 PSAT: This test is a practice for the SAT. It is given in the fall of the year to juniors and is also available to interested sophomores. Registration for this test is through the Senior High School Guidance Office in the fall of the year. THE NATIONAL MERIT SCHOLARSHIP SEMI-FINALISTS ARE SELECTED USING A STUDENT'S JUNIOR YEAR PSAT SCORES.

<u>SAT</u>: This test measures evidence-based reading, math and writing.

<u>Subject Tests</u>: These are specific subject tests as required by the college. This testing is required by the more selective colleges.

<u>ACT</u>: This test measures writing skills and four academic areas: English,

mathematics, reading, and science reasoning.

**Students are responsible for knowing what tests are required and when they are to be taken. Registration materials are available in the Guidance Office. It is recommended that students take either the SAT or ACT the spring of their junior year. Butler Senior High School is a testing center for all of the above tests. Requests for testing accommodations must be processed through the guidance office.

- 4. <u>Interview</u>: Some schools require a personal interview with an admissions officer or an alumnus.
- Extra-Curricular Activities/Community
 Service: Colleges will ask for a record of extra-curricular activities both in the community and in school.
- 6. <u>Attendance</u>: Schools are interested in attendance records.

C. Application Procedure

Online: Students filing college applications online must submit official transcripts through the guidance office.

Paper: Students sending paper applications must bring the completed paper applications along with required fees to the guidance office and request to have official transcripts mailed.

Official transcripts must be mailed from the guidance office.

It is the student's responsibility to provide necessary postage to mail the college application.

FINANCIAL AID

The Senior High Guidance Office sponsors a College and Career Fair in September that includes approximately 90 different colleges, technical schools and the Armed Forces. On

that night we will also host an informational session regarding the financial aid process. Financial aid starts with the FAFSA (Free Application for Federal Student Aid). The information you provide on this federal and state form will determine how much aid and what types of aid you will be offered. It is important to be mindful of individual school deadlines. Most schools require the FAFSA; however, some schools require the CSS Profile. This form is similar to FAFSA but is not a state or federal form and does require a fee.

In the fall we offer a FAFSA completion session at the Senior High School. During this session you will be able to submit your FAFSA that evening during the sessions.

Representatives from PHEAA will be there to answer your questions.

GED TESTING

General Educational Development Tests are available to anyone who does not have a high school diploma. To be eligible, the applicant must be 18 years of age. Those interested in GED testing should register at GED.com. Students may also register and schedule by phone at 1-877-EXAMGED.

EXPLANATION OF ABILITY LEVELS

All Levels: Students from all ability levels may schedule this course.

Basic Level: Course content is designed for the student as identified in the criteria in the next column: Admission to Basic Level Courses.

Academic Level: Course content is designed for the middle ability achieving student. (includes courses with "Academic" course titles)

Average and Above: Course content is more challenging than academic level. (Includes certain math and foreign language courses grades 9-12)

Honors Level: Course content is designed for

the high achieving student.

Advanced Placement: College level courses offered to students in grades 10, 11 and 12

Gifted Level: Course content is designed for the identified gifted student. Individual and group modifications will be provided.

CRITERIA: ADMISSION TO BASIC LEVEL COURSES

For placement in the following basic level classes: English, science, and social studies students must meet the following criteria:

- Scoring Below Basic on the most recent PSSA Reading Assessment
- Teacher recommendation

For mathematics basic level placement, the student must meet the following criteria:

- Scoring Below Basic on the most recent PSSA Math Assessment.
- Teacher Recommendation



COLLEGE TECH PREP PROGRAMS

The Butler Area School District offers College Tech Prep Programs in Allied Health Technologies, Child Development, Communications & Media Studies, Business Management and Finance, Engineering-Related Technologies, and Information Technologies. College Tech Prep is a college preparatory program leading to a two-year and four-year college degree with an emphasis on technical skills and practical applications of knowledge. An explanation of the programs and suggested course sequences can be found on pp. 19-25

Look for the College Tech Prep **Star** logo in the following course descriptions to identify applied academic courses and technical courses in the College Tech Prep Program. Contact Mrs. Shannon McGraw, College Tech Prep Coordinator, at 724-214-3208 with any questions regarding the Program and/or courses.

ADVANCED PLACEMENT PROGRAMS

Advanced placement courses are college-level courses for secondary school students. Students may elect to pay to take the "Advanced Placement Test" in any subject area in May. As a result of this test, students may qualify for college credits at participating colleges and universities.

For more information on these programs, contact your guidance counselor or Senior High Principal, Mr. Jason Huffman.

GIFTED EDUCATION PROGRAM

Programs for the gifted child in the Butler Area School District may have three components, beginning with the Gifted Individualized Education Program (GIEP) and including options and modifications. The GIEP is a written form that spells out the specific programs and services the child will receive. The GIEP also contains goals and objectives for the child, the date services are to start, and other information about the program. Options are all of those cocurricular activities and offerings of an enrichment nature from which any gifted student may select. Preparation for and participation in the selected options usually require a combination of some scheduled inschool time and/or out-of-class time and some out-of-school time on the part of the student. Modifications are those alterations of an acceleration and/or enrichment nature made in scheduling classes or within the classroom that are designed because there is strong evidence that the student has demonstrated advanced knowledge and/or skills in certain areas. Usually, this means acceleration in skill areas such as math and acceleration, enrichment, or both in the content areas such as social studies. Modifications within the classroom are made by the teacher as indicated in the GIEP.

For additional information on Gifted Education, parents and students should refer to Butler Area School District's Gifted Education Program Handbook.

CAREERS AND OCCUPATIONS

Students have an opportunity to apply their academic, technical, and interpersonal skills to a work-based learning experience, including job shadowing, site visits, pre-apprenticeships and mock interviews all leading to possible employment.

ENGLISH LEARNER (EL) PROGRAM

English Learner Students (EL's) will receive instruction in the same curriculum areas as the district's English speaking students. Equity in providing for these students' successful achievement of the standards and graduation requirements will be addressed by the regular classroom teachers and/or the EL teacher. The amount and type of EL instruction provided will depend upon the student's level of language development and proficiency as determined by an appropriate English Language Proficiency assessment. Instruction will take place as a "pull out" activity or in the mainstream classroom with supportive services.

STUDY LOAD

Students must schedule at least six class periods per semester in grades 9-11. Seniors must schedule at least five class periods per semester. The maximum number of unrepeated credits a student will be awarded in a calendar year 8.25.

The quality of work to be maintained, as well as the number of credits to be earned, should be the guiding principle in scheduling. Study periods in the school day should be used efficiently, and adequate time during out-of-school hours should be reserved for homework and preparation for the next day's lessons.

SCHEDULE CHANGES

Students are urged to take a serious approach to the entire course selection process. Course requests submitted in the spring are open to changes only through July 17, 2025. Courses will be considered final after that date, with exceptions made for the following reasons only:

- 1.To correct entry or mechanical errors.
- 2.To ensure that graduation requirements are being met.
- 3.To replace a study hall with an elective within the first five days of a semester, provided remaining classes are not disturbed.
- 4.To adjust the level of a course if placement appears inappropriate. Such changes will only be considered following the first quarter of the course. A.P. courses are exempt from level change consideration.
- 5.To allow for a change in Learning Pathway, which results in a course not being available in the new Pathway.
- 6.Pathway changes may occur at the change of each 9-week period.

Withdrawing from a course will generally not be considered other than for extreme circumstances. Should a course withdrawal be granted, the final grade will be recorded as a failing grade and will be calculated into the student's QPA as such.

AUDITING CLASSES GUIDELINES

Students may be permitted to audit a semester of a course according to the following conditions:

- The course is a full year course required to meet academic graduation requirements.
 Only English, math, science, social studies, and world language classes will be considered.
- The student is failing or in danger of failing at the conclusion of the first semester, but has demonstrated a concerted effort to pass the course.

- Auditing requests must be made at the conclusion of the first semester and not later than the first ten school days of the second semester. Auditing approvals are not reversible.
- 4. While auditing, the student is expected to continue to make a concerted effort to complete assignments and take exams.
- 5. The student must schedule the entire course the following year.
- 6. The parent, counselor, teacher, and principal must approve the auditing request.

RATIONALE: Students who make a concerted effort but who are doing poorly in a required course will have the opportunity to remain in the class for the second semester and attempt to learn without a grade or credit being issued. The student will be better prepared to repeat the course and will not have two failing grades on his/her transcript.

GUIDELINES FOR SELECTING COURSES

- Review the course offerings and descriptions in the academic areas and the recommended course sequences included in this Course Selection Guide.
- 2. Follow the instructions given by guidance counselors and/or administrators during their presentations in classes.
- Consult your parents and teachers for course recommendations.
- 4. Complete and Submit the Course Selection Sheet.

BASD Secondary Instructional Options

In selecting courses, there is a distinction between a student's chosen **Attendance Model** and the **Instructional Model** in which any given course is offered. For the 2025-26 school year, Butler Area School District students are able to choose one of three **Attendance Models**, while courses will be offered through one or more **Instructional Models**.

Attendance Models - Based on the student's entire day

In-person (Attend school building for classes)

Cyber (Complete courses online)

<u>Instructional Models - Based on each individual course</u>

Live Instruction at School

In-person at school

Virtual Blended - Self Paced with Weekly Deadlines

Edgenuity

Google Classroom

The Virtual Blended (VB) model combines asynchronous setting with the addition of live support when needed. The Blended Classroom will primarily use Edgenuity. However, for some courses other platforms such as Google Classroom may be used.

Students will be required to maintain a steady pace in their coursework. In addition, they will be required to attend scheduled live support sessions. The Virtual Blended model offers the flexibility of a self-paced course combined with scheduled teacher office hours to support students.

Virtual Blended classes are available to students in grades 6-12. Scheduling is flexible, however once enrolled, student attendance is required.

<u>Virtual Live - Combination of Scheduled Synchronous and Asynchronous</u>

Edgenuity with scheduled regular live sessions

Google Classroom with scheduled regular live sessions

Butler Area School District will be offering students a unique virtual instructional setting for the 2025-2026 school year. Students may elect to participate in our Virtual Live (VL), which will be a combination of daily lessons through Edgenuity or Google classroom and scheduled live sessions with the teacher for additional instruction and support. Virtual Classroom students will have the opportunity to interact with their teachers and classmates during their live sessions, which will be scheduled on set days and times.

The Virtual Live (VL) will follow our traditional school day and school calendar. Daily lessons will be on Edgenuity or Google classroom, and will be supported through scheduled live lessons and support.

Virtual classes are available to students in grades 6-12. Scheduling is flexible, however once enrolled, student attendance is required.

Students are expected to meet the following expectations:

- 1.Attend assigned live classes and live support sessions as scheduled.
- 2. Virtual Blended students are expected to meet the weekly course deadlines.
- 3. Make consistent academic progress.
- 4. Participate in standardized testing unless exempted.
- 5. Specific course participation requirements as specified in the course registration book.

Failure to meet these requirements could result in one of the following actions:

- 1.Being assigned to attend school at their respective normal school for periodic in person check in sessions.
- 2.Being assigned to attend school at their respective normal school and completing cyber work in person.
- 3.Being assigned to attend Centre Avenue Community School and completing cyber work in person.
- 4.Being removed from the Cyber Education program and returning to school in person.

RECOMMENDED COURSE SEQUENCES

GRADES 9-12

INTRODUCTION:

Butler Area School District's graduation requirements and recommended course sequences are provided to assist you in planning your schedule for next year and each subsequent year of your high school career. Listed are samples of programs designed not only to assist you in keeping track of your credit count but also to ensure that you have earned the necessary credits if you plan to continue your education beyond high school. Some of the choices may be changed to meet an individual's special interests and to provide for varied ability levels.

COLLEGE PREPARATORY A

(Concentration in Mathematics and Science)

GRADE 9	GRADE 10
English 9 (Honors)	English 10 (Honors)
World History to 1450 (Honors)	World History 1450 – Present (Honors)
Honors Geometry OR Honors Algebra II	Honors Algebra II OR Honors Pre-calculus
Honors Biology	Honors Chemistry
1 st OR 2 nd year of World Language	1 st , 2 nd , OR 3 rd year of World Language
Physical Education (1 semester)	Physical Education (1 semester)
Freshman Seminar	Health
Electives	Electives

GRADE 11	GRADE 12
English 11 (Honors OR AP)	English 12 (Honors OR AP)
Honors Modern American History (1 semester) & Honors Am. Government (1 semester) OR AP American History (full year)	Honors Economics (1 semester req.) OR AP European History (full year) OR AP Comparative Government
AP Calculus AB OR Honors Pre-Calculus	AP Calculus AB OR AP Calculus BC
AP Physics I, AP Physics C	AP Biology, AP Chemistry, AP Physics II or C
Computer Course	Additional Advanced Sciences
World Language (if desired)	World Language (if desired)
Physical Education (1 semester)	Physical Education (1 semester)
Health	
Electives	Electives

A course sequence in Mathematics starting in seventh grade may be continued by those students with well above-average abilities in this area so that AP Calculus or AP Statistics maybe taken in twelfth grade. Please refer to the Mathematics Sequence Chart on page 55. AP Calculus BC may only be taken after successful completion of AP Calculus AB.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

COLLEGE PREPARATORY B

(Concentration in Arts and Humanities)

(Concentration in Arts	s and numanices)
GRADE 9	GRADE 10
English 9 (Honors)	English 10 (Honors)
World History to 1450 (Honors)	World History 1450 - Present (Honors)
Mathematics (according to ability)	Mathematics (according to ability)
Academic or Honors Biology	Biology or Honors Chemistry
1 st OR 2 nd year of World Language	1 st , 2 nd , OR 3 rd year of World Language
Physical Education (1 semester)	Physical Education (1 semester)
Freshman Seminar	Health
Electives	Electives
GRADE 11	GRADE 12
English 11 (Honors OR AP)	English 12 (Honors OR AP)
Honors Modern American History (1 semester) & Honors American Government (1 semester) OR AP American History (full year)	Honors Economics (1 semester) OR AP European History (full year) OR AP Comparative Government
Mathematics (according to ability)	Mathematics (recommended)
Honors Chemistry or AP Physics 1	Additional Science (recommended)
World Language (if desired)	World Language (if desired)
Physical Education (1 semester)	Physical Education (1 semester)
Health	Computer Course (1 semester)
Electives	Electives

Please refer to the Mathematics Course Sequence Chart to determine the appropriate course for each year.

Arts and Humanities include such majors as English, Political Science, Creative or Performing Arts, World Language, etc.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

COLLEGE TECH PREP PROGRAMS

Allied Health Technologies
Business Management and Finance
Communication and Media Studies

Engineering-Related Technologies Information Technologies Child Development Program

College Tech Prep programs have been implemented nationwide to give students a solid background of academics and technology and prepare them for the career challenges of the future. College Tech Prep, short for College Technical Preparatory, does not mean preparation for technical school, but preparation for careers in today's age of technology. It is a special program of study that provides the technical preparation to allow a student to continue his or her education in an associate degree or baccalaureate degree program. In addition to their technical courses, the students follow a rigorous program of applied academics that is designed to teach course content in context with issues and topics surrounding work, home, society, and the environment. The applied academic courses engage students in cooperative teams, allowing them to participate in laboratory-centered, hands-on activities that make learning practical and relevant. Academics will be closely monitored, and students are encouraged to maintain effective communication with their teachers and attend tutoring sessions when offered.

The College Tech Prep Program has been developed in cooperation with local colleges and universities such as Butler County Community College, Indiana University of Pennsylvania, Indiana University of Pennsylvania Northpointe Campus, Penn State University, and Point Park University. Through articulation agreements with these institutions, completion of the Butler Area School District's College Tech Prep Program guarantees a student's acceptance into their programs and/or credit for course work completed in high school. Please refer to the College Tech Prep Handbook for specific information about articulation agreements with colleges and universities. In addition to the programs outlined on the following pages, some colleges/universities do require or highly recommend two years of a foreign language. College Tech Prep students may, however, attend any college/university of their choice in the same manner as any other Butler Area School District graduate who meets the criteria of that institution. For more information about these programs, contact Mrs. Shannon McGraw, College Tech Prep Coordinator, at 724-214-3208, or Dr. Brian Slamecka, Assistant Superintendent, at 724-214-3106.

Students must have parent permission, along with teacher and counselor recommendation, to enroll in the College Tech Prep Program. They must successfully complete Pre- Algebra and must maintain at least a "C" average in his/her academic classes. Academic strengths should be considered when selecting interest areas. Students with an interest in the Allied Health or Engineering-Related Technologies professions should be aware that strengths in science and mathematics are especially beneficial for these programs. Students may enroll in the College Tech Prep programs when they schedule their classes for grades 9, 10, or 11. Once enrolled in the program, students are expected to maintain a "C" average in the Academic and Technical courses. Those students who do not maintain a "C" average will be placed on academic probation until their grades improve, or they may be removed from the program. College Tech Prep students are also expected to conduct themselves in a manner conducive to a good educational environment. Students who repeatedly violate school rules may jeopardize their participation in the program.

The Program Scope and Sequences for College Tech Prep Programs can be found on the following pages.

ALLIED HEALTH TECHNOLOGIES PROGRAM SCOPE AND SEQUENCE

Students with an interest in the Allied Health or Engineering-related professions should be aware that strengths in science and mathematics are especially beneficial for these programs.

Subject	Grade 9	Grade 10	Grade 11	Grade 12
МАТН	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Honors Precalculus
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.) Psychology (18 wks.)
OTHER	Physical Education (18 wks.) Freshman Seminar (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
TECHNICAL PROGRAM (Required)	Computer Applications I (18 wks.) Computer Applications II (18 wks.)	Forensic Science (18 wks.)	Health Care Careers (18 wks.)	Anatomy and Physiology (36 wks.) Molecular Biology (18 wks.)
Recommended Electives	CPR/Fir Forensic S		Epidemio	blogy I, II
(Not Required)				

^{* =} Students take Personal Health in grades 9-12.

BUSINESS MANAGEMENT & FINANCE PROGRAM SCOPE AND SEQUENCE

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Any higher math
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics, or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.) Law & Order (18 wks.)
OTHER	Physical Education (18 wks.) Freshman Seminar (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
	Technical	Program – Business Manage	ement and Finance	
Required Technical Program	Intro. to Business (36 wks.)	Computer Applications I (18 wks.) Computer Applications II (18 wks.)	Accounting I	Choose One Option: Accounting II or Business Management & Marketing
Recommended Electives	Introduction	to Programming Publishing	Accour Busine Business Managen Personal	ss Law nent/Marketing
* = Students	take Personal Health in	grades 9-12		

COMMUNICATION AND MEDIA STUDIES PROGRAM SCOPE AND SEQUENCE

Subject	Grade 9	Grade 10	Grade 11	Grade 12
МАТН	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Any higher math
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.) Law & Order (18 wks.)
OTHER	Physical Education 18wks Freshman Seminar (18 wks)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health	Physical Education (18 wks.)
	Strand 1 Te	echnical Program – Journalis	sm & Public Relations	
TECHNICAL PROGRAM (Required)	Introduction to Media Communications, Journalism I		Journalism II Public Speaking	
Recommended Electives (Not Required)	Digital Photography & Graphic Arts Computer Applications I/II TV/Video Production, Part I TV/Video Production, Part II Advanced TV Radio Production			
	Strand 2	Fechnical Program – Broadc	ast Communications	
TECHNICAL PROGRAM (Required)	Intro to Media Communications (18 wks.)	Television Production I (18 wks.) Television Production II (18 wks.) Sports Broadcasting/Communication Radio Production (18 wks.) Advanced Television Production (18 wks.)		s.) tion
Recommended Electives (Not Required)	Digital Photography and Graphic Arts, Computer Applications I/II BTTV Production			
* = Students take	Personal Health in grades	s 9-12		

ENGINEERING-RELATED TECHNOLOGIES PROGRAM SCOPE AND SEQUENCE

Students with an interest in the Allied Health or Engineering-related professions should be aware that strengths in science and mathematics are especially beneficial for these programs.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Any higher math
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.) Sociology (18 wks.)
OTHER	Physical Education (18 wks.) Freshman Seminar (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Technical Program (Required)	Exploring CAD	Intro to Engineering	Architectural Design or Engineering Design & Product Development	Advance Architecture or Advanced Engineering
Recommended Electives Select minimum of two courses	Materials E Advanced N	g Design and Product Devingineering Materials Engineering gineering and Manufactur		

^{* =} Students take Personal Health in grades 9-12

INFORMATION TECHNOLOGIES PROGRAM SCOPE AND SEQUENCE

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Any higher math
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.)
OTHER	Physical Education (18 wks.) Freshman Seminar (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
	Strand 1 Technical Pro	gram – Information Tec	hnology Programming Str	and
Required Technical Program	Computer Applications Introduction to Programming I		Programming with C++ roduction to JAVA Program ermediate JAVA Programm	_
Recommended Electives			Programming Computer Ap	· · · · · · · · · · · · · · · · · · ·
	Strand 2 Technical	Program – Information 1	Fechnology Systems Strand	d
Required Technical Program			Applications I Applications II	
Recommended Electives	Introduction to Programming Introduction to JAVA Programming Intermediate JAVA Programming C++ Programming			
* = Students ta	ike Personal Health in gr	ades 9-12		

CHILD DEVELOPMENT PROGRAM SCOPE AND SEQUENCE

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
МАТН	Algebra I or Any higher math	Geometry or Any higher math	Algebra II or Any higher math	Algebra III or Any higher math
ENGLISH	Academic or Honors English 9	Academic or Honors English 10	Academic or Honors English 11	Academic or Honors English 12
SCIENCE	Academic Biology or higher	Academic Chemistry or higher	Academic Physics or higher	Any Science
SOCIAL STUDIES	Academic or Honors World History to 1450	Academic or Honors World History 1450-Present	Modern American History, Academic (18 wks.) American Government, Academic (18 wks.)	Economics, Academic (18 wks.) Psychology (18 wks.)
OTHER	Physical Education (18 wks.) Freshman Seminar (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Child Development Program (Required)	Family & Prenatal Development (18 wks.)	Infant & Toddler Development (18 wks.)	Early Child De (18 w and/ Adolescent De (18 w) and Child Develop Experie (18 w	ks.) or evelopment ks.) i oment Field ence
Recommended Electives	Lifeguarding (Computer A	First Aid usic Art Grade 10 only) pplications I/II	Psycho Sociol	
* = Student	s take Personal Healt			

CATS General Education

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic Or Honors English 9	Academic Or Honors English 9	Academic Or Honors English 9	Academic Or Honors English 9
Science	Academic Biology or Higher	Academic Chemistry or higher-Must be a lab Science	Honors Environmental Science or Anatomy and Physiology	Science Optional
Math	Algebra 1 Or higher	Geometry or higher	Algebra II or higher	Math Optional
Social Studies	Academic or Honors world History to 1450	Academic or Honors world History to 1450- present	Modern American History (18 weeks) and American Government (18wks)	Economics (18wks)
Health	Health (18wks)	Health (18wks)	N/A	N/A
Gym/Seminar	Physical Education (18wks) Freshman Seminar (18 wks.)	Physical Education (18wks)	Physical Education (18wks)	Physical Education (18wks)
CTE Program	N/A	N/A	Foundations and Fundamentals of Education I(120)	Foundations and Fundamentals of Education II(120)
			Intro to Diverse Learners I(120)	Intro to Diverse Learners II(120)
			Early Childhood Development(60)	
			Adolescent Development(60)	Teacher(120)
				CPR/First Aid 918 wks. (60)
REQUIRED ELECTIVES	N/A	Family & Prenatal Development (18wks)(60) and/or Infant and Toddler Development (60) (18wks)		
Recommended Electives	Socio	outer applications 1 Music Art blogy (10th grade) nology (10th grade)	Public Speaking Intro to Communications	

VOCATIONAL-TECHNICAL PROGRAMS

(In Cooperation with Butler Co. Area Vocational-Technical School)

This program is intended for those students who are planning to attend the Butler County Area Vocational-Technical School during the tenth, eleventh and twelfth grades. In order to take advantage of the Statewide Articulation Agreements through Butler County Area Vocational-Technical School's Programs of Study, students are advised to take college preparatory courses.

GRADE 9	GRADE 10
English 9, Academic	English 10, Academic
World History to 1450, Academic	World History 1450-Present, Academic
Mathematics (according to ability)	Mathematics (according to ability)
Biology	Academic Chemistry, Global Science, or Physical Science
Full year Physical Ed. and Freshman Seminar	Physical Education (1 semester)
	Comprehensive Personal Health
Electives	

Please refer to the Mathematics Course Sequence Chart to determine the appropriate course for each year.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

Grades 10, Grade 11, and Grade 12

Collision Repair

During these years, students will spend two or three periods per day at BCAVTS and the remainder of the day at Butler Senior High School completing other graduation requirements in the General Studies Program. Diplomas are issued by the home school. Potential courses of study at BCAVTS include:

Diversified Occupations

Air Conditioning/Heating/Electrical Graphic Designs

Automotive Technology Health Assistant

Building Construction Heavy Equipment

Carpentry Machine Technology

Computer Network/Security Protective Services

Cosmetology Sports Medicine

Culinary Arts Welding

A complete listing of courses available at the BCAVTS and descriptions can be found at the end of this document.

GENERAL STUDIES

This program is intended for those students who are planning to attend post-secondary education.

GRADE 9	GRADE 10
English 9, Academic	English 10, Academic
World History 1450, Academic	World History 1450-Present, Academic
Mathematics (according to ability)	Mathematics (according to ability)
Biology	Global Science or Environmental
Full year Physical Ed. and Freshman Seminar	Physical Education (1 semester)
	Comprehensive Personal Health
Electives	Electives
GRADE 11	GRADE 12
GRADE 11 English 11, Academic	GRADE 12 English 12, Academic
English 11, Academic Modern American History, Academic (1 semester required) American Government, Academic (1	English 12, Academic
English 11, Academic Modern American History, Academic (1 semester required) American Government, Academic (1 semester required)	English 12, Academic Economics, Academic (1 semester required) Mathematics (if desired or needed for
English 11, Academic Modern American History, Academic (1 semester required) American Government, Academic (1 semester required) Mathematics (according to ability)	English 12, Academic Economics, Academic (1 semester required) Mathematics (if desired or needed for graduation)
English 11, Academic Modern American History, Academic (1 semester required) American Government, Academic (1 semester required) Mathematics (according to ability) Science (according to ability)	English 12, Academic Economics, Academic (1 semester required) Mathematics (if desired or needed for graduation) Science (if desired or needed for graduation)

Please refer to the Mathematics Course Sequence Chart to determine the appropriate course for each year. Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

QUESTIONS/NOTE

ART

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

INTRODUCTION TO DRAWING IP, VL AD10

Grades 9-12 18 wks. 0.5 credit All Levels

In this course, the student will begin by learning the fundamentals of value and shape. Lessons will encompass the exercises used in creating value accurately. The student will also learn how to break down objects into basic shapes for creating a more proportional and accurate drawing. Throughout this course different mediums and materials will be used to reinforce the learning process.

ADVANCED DRAWING IP, VL CN: AD20

Grades 9-12 18 wks. 0.5 credit All Levels Prerequisite: Intro to Drawing

In this course, the student will work on a more independent basis. He/she will be encouraged to experiment freely with media techniques in both areas and develop a style through media that he/she is most comfortable working with. A more extensive amount of time will be allowed so that the student may refine the skills they have learned in the previous drawing classes.

GENERAL ART IP CN: AG10

Grades 9-12 18 wks. 0.5 credit All Levels

This course will introduce the student to the basic principles of art. It will touch on many different experiences in drawing, painting, art appreciation, practical art, and basics of color and design. The student will complete a number of projects and will be encouraged to experiment with media and techniques. The emphasis will be on teaching the student to develop his/her visual and creative powers and develop an enjoyment and appreciation of art.

INTRODUCTION TO SCULPTURE IP CN: AS10

Grades 9-12 18 wks. 0.5 credit All Levels

In this course, students will be introduced to various three-dimensional works of art, and the art of making it. Students will experiment with a variety of different materials, for example: plaster, clay, paper, metal, glass, and recyclables. There will be an extensive study into the process of various sculptural methods used throughout history and in present day. Overall, Introduction to Sculpture will explore the many ways to produce, discuss, and critique three-dimensional works of art.

for the student who would like to develop his/her skills and creativity more extensively.

ADVANCED SCULPTURE IP CN: AS20

Grades 9-12 18 wks. 0.5 credit
All Levels
Prerequisite: Intro to Sculpture

This course will allow students to work more independently than Introduction to Sculpture. It will focus on intensive studies into sculptural mediums, such as clay, plaster, glass, metal, etc. Students will expand upon previous knowledge and will problem-solve to expand that knowledge base.

INTRODUCTION TO PAINTING IP CN: AP10

Grades 9-12 18 wks. 0.5 credit All Levels

The student will explore the traditional and experimental techniques in the area of water-color, tempera painting, acrylics, and mixed media. The realistic and non-objective approaches to painting will be explored. The emphasis will be on teaching the student to develop his/her visual and creative powers and appreciation of different painters and their style of painting.

ADVANCED PAINTING IP CN: AP20

Grades 9-12 18 wks. 0.5 credit All Levels Prerequisite: Intro to Painting

This course will focus on the advanced techniques and different processes of painting. Students will continue to refine the skills they learned in Intro to painting as well as collaborate with classmates. Advanced Painting is designed

APPLIED IMAGING TECHNOLOGY IP CN: AI30

Grades 9-12 18 wks. 0.5 credit

Prerequisite: Intro Photography and Graphic Arts or

Digital Photography and Graphic Arts

Building on the basic knowledge and experiences from the prerequisite class, students are exposed to higher-level techniques and processes in Applied Imaging Technology. Students will further explore digital design as a medium for creative expression and practical application. With the use of several advanced graphic design programs, students will learn post-production editing based on industry standard. Additionally, students will be challenged to use sophisticated techniques to find inspiration and their own vision as an artist, marketing designer, or photographer. By expanding on design principles and hands on application, students create a body of work that reflects a range of problem-solving and technical ability. Further, students will develop projects through which the use of science and technology prove imperative. Using the scientific method, students will create unique works by mixing technical media settings with critical thinking. Cameras will be provided by the district for this course.

DIGITAL PHOTOGRAPHY AND GRAPHIC ARTS IP CN: AF20

Grades 9-12 18 wks. 0.5 credit All Levels

The digital photography course emphasizes camera operation, effective composition, and creative expression. Topics include techniques in digital photography, camera and lens operation, memory cards, file formats, exposure, white balance, composition, lighting,

creativity, image editing software and output. Using graphic design based computer programs and equipment, students will demonstrate an understanding of digital editing, printers, and scanners to capture, manipulate, and output images. This course introduces students to graphic design as a form of visual communication through the use of typography, image, form, and color. Projects explore design processes in visual communication, creative problem solving, and basic design practice. Personal or school-provided cameras can be used.

ART APPRECIATION IP, VB CN: AA30

Grades 9-12 18 wks. 0.5 credit
All Levels

This course consists of a broad overview of art history in general. It is made up of a lecture/slide-viewing experience with discussion of artist and styles. An emphasis will be placed on a time period from 1850 to the present. This course is specifically recommended for college-bound students who may be required to take art by a college; many colleges and universities and even liberal arts schools require it.

CERAMICS IP CN: AC10

Grades 9-12 18 wks. 0.5 credit
All Levels
Students may take a maximum of four semesters of
Ceramics for credit.

These courses involve the use of clay to make functional projects. Emphasis will be placed on original works. Students will work in all the hand built areas and wheel throwing. Students will also be involved with loading and unloading a kiln, mixing glazes, and reprocessing used clay. In subsequent semesters, the emphasis will be on expanding the student's knowledge and working in areas of combining hand build processes.

NOTES

BUSINESS, COMPUTER, & INFORMATION TECHNOLOGY

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

ADVANCED STANDING CREDIT BUTLER COUNTY COMMUNITY COLLEGE

Students taking Accounting I/II may receive credit for the introductory Butler County Community College course in the same field. To be eligible, the following criteria must be met:

- 1. An "A" or "B" must be earned on the high school level.
- Application must be made with the College within two years of the course work.
 Applications may be obtained from the Business Department Chairperson at the Senior High School.



INTRODUCTION TO BUSINESS IP, VB CN: BG10

Grades 9-12 36 wks. 1.0 credit All Levels

This course provides the student a broad background about the modern business world. It is an essential course for students who are considering choosing a business major. This course is designed to acquaint students with the role of business in our economy, the forms of organizations, various business functions such as management, personnel, advertising, marketing, accounting, and financing.



ACCOUNTING I IP CN: BA30

Grades 9-12 36 wks. 1.0 credit All Levels

In Accounting I, emphasis is placed on the process for organizing financial information through the use of the double-entry accounting system. Study covers the basic accounting equation through the complete accounting cycle for both a service and a merchandising business. This is an essential course for anyone who is considering any area of business – whether in college or in the work place.



ACCOUNTING II, HONORS IP CN: BA40 CHS: Aligned w/BC3 &

Carlow

Grade 10, 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Accounting I

Accounting II expands on the fundamental concepts and principles of Accounting I. Study begins with a complete review of the accounting cycle for a merchandising business organized as a corporation. Accounting procedures for asset, liability, and equity accounts are covered as well as analyzing financial statements.

BUSINESS MANAGEMENT/MARKETING IP, VB

CN: BM40

Grades 9-12 36 wks. 1.0 credit All Levels

This full-year course will enable students to: 1) acquire a working vocabulary of common business terms; 2) obtain an awareness of the many activities, problems, and decisions involved in successfully operating a business; 3) gain an appreciation of the importance of business, management, and marketing in our economic system.

BUSINESS LAW IP CN: BB30

Grade 10, 11, or 12 18 wks. 0.5 credit All Levels

This one-semester course is a survey of American law and our rights and responsibilities as individuals in our society. Topics covered include: criminal and civil law, contracts, family law, and the juvenile justice system. Consumer topics such as buying and insuring a car, marriage, renting an apartment, and real and personal property are also covered.

YEARBOOK/MARKETING I DESIGN, PROMOTION, AND DISTRIBUTION IP

FALL - CN: BY31

Grades 9-12 18 wks. 0.5 credit All Levels

This class produces the high school yearbook. The yearbook serves as the real-world learning laboratory for this Marking I course. Students are exposed to the functional areas of marketing and marketing technology including product design, price, place, promotion, and distribution. The emphasis of this course will continue to develop students' problem-solving skills, logic, processes, and communication skills.

YEARBOOK/MARKETING II LAYOUT, SALES AND BUDGET IP

SPRING - CN: BY32

Grades 9-12 18 wks. 0.5 credit All Levels

This class produces the high school yearbook. The yearbook serves as the real-world laboratory for this Marketing II course. Students are exposed to the basic areas of marketing and marketing technology including sales, accounting, budgeting, and marketing technology. This course follows the NBEA and Pennsylvania Department of Education standards.

PERSONAL FINANCE IP, VB CN: BP30

Grade 10, 11, or 12 36 wks. 1.0 credit All Levels

The Personal Finance course explores people's money habits and how those habits affect their lives. The course will cover the following topics: Managing Your Money, Budgeting & Record Keeping, Checking, Savings, Investing, The Stock Market, and Credit. Throughout the course, students will participate in realistic simulations in which they must decide on what to do with their money.

NOTES

CAREERS AND OCCUPATIONS

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

FRESHMAN SEMINAR IP CN: CS10

Grade 9

18 wks. All Levels 0.5 credit

Freshman Seminar is a semester course that will meet year long that runs opposite a 9th- grade physical education course. Freshman seminar is a .5 credited course for all 9th grade students. The course is designed to help 9th-grade students transition successfully into high school. This course focuses on developing essential academic, social, and life skills, including time management, goal setting, effective study habits, and communication. Students will be exposed to critical-thinking fluency skills, fluency-thinking skills, digital literacy, and personal wellness while engaging in interactive projects and discussions. The seminar also fosters a sense of community and belonging, equipping students with the confidence and tools they need for a successful high school experience.

FOUNDATIONS AND FUNDAMENTALS OF EDUCATION I CN: TE20

This course is designed to introduce students to the world of teaching with an emphasis on the roles of a teacher including planning, preparation, learning environment, classroom management, and professionalism. A variety of technology resources will be explored and used to promote learning. Students will have the opportunity to observe a classroom setting for a minimum of 5 hours.

FOUNDATIONS AND FUNDAMENTALS OF EDUCATION II CN: TE30

Students will explore the American and global education world. A more in-depth look at the role of the public school system, classroom management, behavioral situations, planning, and preparations will be discussed. Students will be creating lesson plans, writing assessments, and delivering lessons. This class is paired with the Pre-service assistant teacher.

PRE-SERVICE ASSISTANT TEACHER

Prerequisites are required before taking this class.

Students will participate in an educational setting maintaining a log of time and activities. Students will have a mentor teacher and plan for actively participating in the classroom by designing and delivering lessons to meet the needs of all learners. Students will reflect on their practices with the creation of a portfolio.

COMPUTER APPLICATIONS & PROGRAMMING

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

COMPUTER APPLICATIONS I

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IP CN: BC10

Grades 9-12 18 wks. 0.5 credit
All Levels

This course is designed to familiarize students with computer applications using the Microsoft Office 2013 suite. It covers a brief history of computers, windows applications, word processing, data base, spreadsheet and presentation software. Instruction and projects are focused on the operation of a personal computer using a "hands-on" approach. Students will also learn how to apply their computer skills for other classes and in their daily lives.



COMPUTER APPLICATIONS II IP CN: BC20 CHS: Aligned w/BC3

Grades 9-12 18 wks. 0.5 credit All Levels *Prerequisite: Computer Applications I*

This advanced course will provide students with additional computer knowledge and skills students need to effectively utilize Microsoft Office. Students will utilize Publisher and PowerPoint as well as explore advanced database techniques in Access and advanced spreadsheet techniques in Excel. Instruction and projects focused on the operation and utilization of the applications as well as the application of the skills to their daily lives.



WEB PUBLISHING IP CN: BP10

Grades 9-12 18 wks. 0.5 credit All Levels

Web Publishing is a basic introductory course that will expose students to creating websites in MS Expression Web and HTML. Students will learn web page design techniques as well as the fundamentals of developing a website using an application (Expression Web) versus code (HTML). This course is intended for beginning web site creator and not for students with advanced application or html coding experience.



INTRODUCTION TO JAVA PROGRAMMING IP, VB CN: CM40

Grades 9-12 18 wks. 0.5 credit Average/Above Levels Prerequisite: Algebra I

This course provides an introduction to JAVA programming and object-oriented application development. It is intended for beginning programming students in computer science or computer information systems. Fundamentals of JAVA and decision making with methods and classes will be covered.

INTERMEDIATE JAVA PROGRAMMING IP CN: CM50

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

Prerequisite: Introduction to JAVA Programming

This course will continue to teach students the principles of computer programming with JAVA. Advanced topics will be covered, including graphical user interfaces, object-oriented programming.

PROGRAMMING with C++ IP CN: CM20

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

This course provides an in-depth look at programming in the C++ language. C++ is the foundation for video games, engineering projects, and is a requirement for many college Computer Science majors. This course will provide the solid fundamentals in object-oriented programming, and continue to demonstrate those principles through discussing topics including variables, selection, repetition, arrays, inheritance, and event-driven programming.

PROGRAMMING WITH PYTHON IP, VB CN: CM10

Grade 10-12 36 weeks 1.0 credit

This is the first of two sequenced computer science courses developed by CMU for high school students. It is a deep dive into the fundamentals of programming concepts and

teaches **text-based coding using Python**. The content is predicated on the notion that learning about programming and computer science should be fun and engaging. Students are exposed to graphics-based problem solving because it is visually engaging, allows for multiple correct solutions, and provides visual cues when a solution goes awry.

COLLEGE PROGRAMMING AND COMPUTER SCIENCE

IP CN: CM80 CHS: Aligned w/CMU

Grade 11 or 12 36 wks. 1.0 credit

Honors Level

Prerequisite: Programming with Python or Intermediate

JAVA Programming

A full-year honors-level course in programming and computer science, College Programming and Computer Science prepares students for college studies in computer science and related disciplines. This course re-examines earlier topics (functions, conditionals, loops, strings, lists, and more) in greater detail and increased rigor.

The course also covers intermediate data structures (sets, dictionaries), recursion, object-oriented programming, efficiency, style, and top-down design, among other topics.

The course culminates in an optional \$200 final exam. The exam is administered at your school by a classroom teacher. Upon passing the exam, students receive Carnegie Mellon University transcripted credits.

A.P. COMPUTER SCIENCE A IP CN: CM70

Grade 11 or 12 36 wks. (5pd./wk.) 1.0 credit
Advanced Placement

Prerequisite: Introduction to Programming with Java AND Intermediate Java Programming The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. Students who take the AP computer Science course and exam are well prepared to continue their study of computer science and its integration into a wide array of computing and

A.P. COMPUTER SCIENCE PRINCIPLES IP CN: CM60 CHS: Aligned w/BC3

STEM-related fields.

Grade 11 or 12 36 wks. (5pd./wk.) 1.0 credit
Advanced Placement
Prerequisite: Passed Algebra I

AP Computer Science Principles is designed to introduce students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This rigorous course promotes deep learning of computational thinking skills, and engages students in the creative aspects of the field. It is unique in its focus in fostering students to be creative. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of the problems and the impacts to their community, society, and the world.

NOTES

ENGLISH

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

ENGLISH 4.0 credits Required for Graduation

English 9 (Required, 1 credit) English 10 (Required, 1 credit) English 11 (Required, 1 credit) English 12 (Required, 1 credit)

As outlined in the current English curriculum guide for grades 9-12, students will follow a prescribed course of study that encompasses literature, grammar, writing, listening and speaking activities appropriate to grade and course difficulty level.

The current curriculum has been developed in order to instruct and assess the following Pennsylvania Academic Standards:

Learning to Read Independently
Reading Critically in All Content Areas
Reading, Analyzing and Interpreting
Literature
Types of Writing Quality
of Writing Speaking and
Listening
Characteristics and Functions of the English
Language
Research

In addition, English classes in grades 9-11 will administer the CDT Testing to assess student performance in reading to better tailor the needs of students in each class to achieve improved performance in not only language arts but also on the Keystone Literature Exam.

Teachers in all grades will also administer and assess at least one multi-paragraph writing assignment per semester using the domain scoring rubric.

As students enter the senior high school, course options expand to include Advanced Placement level courses, which are designed to meet national curriculum standards as established by The College Board, and which are to reflect college-level difficulty. English courses continue to be offered at Academic and Honors levels. Beginning with the graduating class of 2014, each student must demonstrate proficiency in English Language Arts and mathematics on the Keystone Exams, which will replace the Pennsylvania System of School Assessment (PSSA), or provide evidence of proficiency in English Language and mathematics through state-mandated alternative forms of assessment. Students will take the Keystone Exams upon completion of the corresponding courses.

> ELA 9 IP, VB CN: EA10

Grade 9 36 wks. 1.0 credit
Academic Level

This course presents a variety of literary genres, including novel, nonfiction, drama, and short stories. Emphasis is on comprehension, literary analysis, communication skills, and library research skills. Regular data will be used to inform instruction, with a focus on multisyllabic word instruction and advanced reading comprehension strategies. Throughout the course, the student will write text dependent analysis essays and paragraphs to help prepare for the Keystone Literature exam.

ELA 9, HONORS IP, VB CN: EH10 Gifted: EH15

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

> Grade 9 36 wks. 1.0 credit Honors Level

It is recommended that students have a "B" average or higher in Honors ELA 8 and a teacher recommendation

Students will concentrate on comprehending and analyzing various genres of fiction including: short stories, drama, novels, poetry, and mythology. In addition to the intensive literary study, students will focus on writing MLA formatted thematic and character analysis papers with supported textual evidence. Students will also focus on comprehending, analyzing, and applying nonfiction primarily through writing the MLA research paper. Library research skills are integrated into this course. Please note, a summer reading project is required.



INTRODUCTION TO MEDIA COMMUNICATIONS IP

CN: EC10 (Fall Semester)

Grade 9 18 wks. 0.5 credit Average/Above Levels

NOTE: TECH PREP STUDENTS ONLY OR BY APPROVAL OF COLLEGE TECH PREP COOR.

This course will cover the history of the various electronic forms of mass communications media and their impact on today's society. It will also include the application of basic skills and terms used in the productions of electron media. This class will be required for CTP Broadcast Communications students.



ENGLISH 10 IP, VB CN: EB20

Grade 10 36 wks. 1.0 credit Basic Level

Prerequisite: Admission to Basic Level Courses

This course stresses the introductory approach to literature and paragraph writing begun in ninth grade. The course work revolves around reading comprehension and the writing of paragraphs. Students in this course are required to take the end-of-course Keystone Literature Exam.

ENGLISH 10, ACADEMIC IP, VB CN: EA20

Grade 10 36 wks.1.0 credit Academic Level

This course combines writing and literary analysis, investigating the genres of poetry, fiction, drama, and nonfiction. The student works toward correctness in the conventions of writing, and improvement in organization.

Students in this course are required to take the end-of-course Keystone Literature Exam.

ENGLISH 10, HONORS IP, VB CN: EH20

Gifted: EH25

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

> Grade 10 36 wks. 1.0 credit Honors Level

Suggested: "B" average in Honors English 9

Students study the major works of world literature, in relation to their historical contexts and discover the elements that connect the works. The writing focus is on paragraph development and research, culminating in a

documented term paper in MLA format.

<u>Students in this course are required to take the end-of-course Keystone Literature Exam.</u>

ENGLISH 11 IP, VB CN: EB30

Grade 11 36 wks. 1.0 credit Basic Level

Prerequisite: Admission to Basic Level Courses

This course focuses on the development of reading skills. The study of writing skills will also be a focus, and include an emphasis on the writing process and application of these skills in students' own work. Reading skills are improved in correlation with writing skills through the use of various texts of the American Literature genre. Reading skills are further developed through the use of targeted CDT testing to enhance students' skills of comprehension, vocabulary, analysis, etc.

ENGLISH 11, ACADEMIC IP, VB CN: EA30

Grade 11 36 wks. 1.0 credit
Academic Level

This course emphasizes the skills associated with critical reading, single and multi- paragraph writing, and research. Students read fiction and non- fiction from selected American writers. Students also review the elements of grammar and the writing process while constructing paragraphs and essays.

ENGLISH 11, HONORS IP, VB CN: EH30

Grade 11 36 wks. 1.0 credit Honors Level

Recommended: "A" in English 10, Academic "A" or "B" in English 10, Honors and proficiency on the

Keystone Literature Exam

In this course, students look at the development of American Literature, studying the major writers and literary movements. Students utilize different strategies for critically reading a text, working to extend the student's ability to read both for surface level content information to deeper textual analysis. Finally, students also work to improve and refine writing and research skills in preparation for college-level experiences.

ENGLISH 11, HONORS PLEX IP CN: EH30PX

Grade 11 36 wks. 1.0 credit Honors Level

Recommended: "A" in English 10, Academic

"A" or "B" in English 10, Honors and proficiency on the Keystone Literature Exam

In this course, students will look at the development of American Literature, studying the major writers and literary movements. Students utilize different strategies for critically reading a text, working to extend the student's ability to read both for surface level content information to deeper textual analysis. Students also work to improve and refine writing and research skills in preparation for college-level experiences. This is an independent course that utilizes a personalized learning framework where students are expected to work independently or in small groups to complete posted weekly assignments. This course is designed around college-level experiences.

A.P. ENGLISH LANGUAGE & COMPOSITION IP, VB CN: EH50

Grade 11 36 wks. 1.0 credit Advanced Placement

Prerequisite: Proficiency on the Keystone Literature

Exam and teacher recommendation Recommended: "A" or "B" in English 10, Honors

In this highly challenging course, students trace the development and characteristics of American Literature. Students sharpen formal rhetoric skills through essay assignments, library research, and documented writing. Knowledge of the *MLA Handbook* is expected. Summer reading and writing assignment completion are a course requirement.

ENGLISH 12 IP, VB CN: EB40

Grade 12 36 wks. 1.0 credit Basic Level

Prerequisite: Admission to Basic Level Courses

Emphasis is placed upon reading and writing skills and on the application of these skills in students' own work. Reading skills are improved in correlation with writing skills through the use of fiction and non-fiction works. Reading skills are developed through explicit practice to enhance students' skills of comprehension, vocabulary, summarization, and analysis.

ENGLISH 12, ACADEMIC IP, VB CN: EA40

Grade 12 36 wks. 1.0 credit
Academic Level

This course reviews and builds upon the skills developed in English 11 Academic. Students read works from British authors, and further develop writing and research skills. Learning occurs through a connected process of instruction and application in order to prepare students for college or entrance into the workforce.

ENGLISH 12, HONORS IP, VB CN: EH40

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: "A" in English 11, Academic or "A" or "B" in English 11, Honors

Students in this course explore the development of British literature, studying major writers and literary forms in each historical period. Students also work, through varied assignments, to improve writing and research skills as preparation for college level experiences.

ENGLISH 12, HONORS PLEX IP CN: EH40PX

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: "A" in English 11, Academic or "A" or "B" in English 11, Honors

Students in this course explore the development of British literature, studying major writers and literary forms in each historical period. Students also work, through varied assignments, to improve writing and research skills as preparation for college level experiences. This is an independent course that utilizes a personalized learning framework where students are expected to work independently or in small groups to complete posted weekly assignments. This course is designed around college-level experiences.

A.P. ENGLISH LITERATURE & COMPOSITION IP, VB CN: EH60

Grade 12 36 wks. 1.0 credit
Advanced Placement

Prerequisite: Teacher recommendation Recommended: "A" or "B" in English 11 AP, or Honors

This course is for students with strong interests in reading, discussion, and analysis of literature.

Summer reading and writing is required.

Emphasis is placed upon written responses to analytic questioning based upon close reading of major British authors. Proficiency and mastery of the *MLA Handbook* protocols is expected. Students refine their writing and analytical skills by completing research projects while applying critical thinking skills.



JOURNALISM IP CN: EJ40

Grade 9-12

36 wks. All Levels 1.0 credit

The main objective of this course is the production of the *Skyliner*, which is the Senior High School newspaper. Students will write news stories and features, create photographs, and sell advertising.

SPORTS BROADCASTING/COMMUNICATION IP CN: ER60

Grades 9-12 18 wks. 0.5 Credit

This class is designed to give communications students a sense of what it takes to work with a sports team. The course would combine some of the video production elements my other TV Production electives cover with more public relations and "sports communications" work. The class would adopt a Butler varsity team (one that does not get much media attention), and the students would serve as the communications force for that team. Students would develop video content about the team for our morning announcements show and BASD TV channel (including interview segments), create press releases for Butler Radio and the Butler Eagle, produce live broadcasts of the team's games/matches, and design elements for the

team's social media accounts. This would help students prepare for a career in various fields, including broadcasting, P.R., and sport management.

TV/VIDEO PRODUCTION, PART I IP CN: ER31

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

Students will learn the behind-the-scenes operations of TV/Video Production. Basic aspects of pre-production and production will be explored including concept development, scripting, and storyboarding. Emphasis will be placed on elements of the camera, shot composition, and editing.

BROADCAST JOURNALISM/TV NEWS PRODUCTION IP

CN: ER32

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

Prerequisite: TV/Video Production, Part I Students in this course are required to participate in work outside of the regular school day.

This course builds on the skills learned in TV/Video Production, Part I. Students will primarily focus on the production of the BTTV News Magazine Show. Students will write, film, and edit news packages for on-air use. Documentary filmmaking will be a focus during the second half of the term.

BTTV PRODUCTION

CN: ER61 (Fall) CN: ER62 (Spring) CHS: Agreement w/Pitt pending

Grades 9-12 18 wks.
Average/Above Levels

0.5 credit

Prerequisite:

- 1. TV Production class experience preferred
- 2. "B" average grade in prior TV Production classes
- 3. Endorsement by IHS or SHS TV/Communications teacher
- 5. Principal has final determination on class roster.

Students are responsible for the production of the Senior High School's morning announcement show. Students will learn the skills necessary to operate broadcasting equipment behind the scenes and act as on-air anchors for the daily show. Students will also create weekly features to run on the morning show.



FILM ANALYSIS & FILMMAKING IP CN: ER42

CHS: Agreement w/Pitt pending

Grade 10-12 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: TV/Video Production, Parts I
Students in this course are required to participate in work
outside of the regular school day

This course builds on the skills learned in TY/Video Production, Part I. Students will learn about all elements of film production and history. Well-known films will be analyzed as a method of studying effective filming and writing techniques. Students will be responsible for writing, producing, filming, directing, and editing a short narrative film.



RADIO PRODUCTION IP CN: ER50

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

This course looks at the basic principles of audio recording and production. In addition, the course will focus on radio history and various aspects of the music industry. Topics will include radio station formats, ratings, and personalities. Students in the class will participate in recording sessions for our "Tornado Talk at Butler Senior High School" podcast.

BC3 COLLEGE WRITING IP CN: EW35

Grade 11 or 12 18 wks. 0.5 credit Prerequisite: 3.0 overall GPA

This is a dual enrollment course offered in conjunction with Butler County Community College. This course stresses the writing process of planning, organizing, drafting, revising, and editing multiple paragraph essays. Methods of invention, types of development, and the mechanics of effective academic composition are included as well as discussion of plagiarism and source documentation.

BC3 COLLEGE RESEARCH IP CN: EW40

Grade 11 or 12 18 wks. 0.5 credit

Prerequisite: 3.0 overall GPA and BC3 College Writing

This is a dual enrollment course offered in conjunction with Butler County Community College. The emphasis of this course is upon persuasion, evaluation, research, and writing the research paper. Students will continue the study and writing of thoughtful and organized expositions as well as careful editing of grammar

and sentences.

Students will be required to purchase their own textbook from the BC3 bookstore.

Students must register and pay for this course prior to being scheduled. (Approximate Cost \$400 per 3 credit hours) See the guidance office for details.

INTRO TO COMMUNICATIONS & SPEECH VB CN: ES30

Grades 9-12 18 wks. 0.5 credit Average/Above Levels

Beginning with an introduction that builds student understanding of the elements principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. This course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

CONTEMPORARY/YOUNG ADULT LITERATURE CN: EY30

Grades 9-12 18 wks. 0.5 credit

The course will move beyond the classics into the modern era of literature to foster a newfound passion and respect for reading or bolster existing habits. In addition to embarking on a myriad of fictional adventures, throughout the course, students will engage in vibrant discussion and debate, tackle a variety of unique and innovative writing styles, and learn new critical thinking and analysis techniques. These

objectives will be measured through a myriad of larger projects, such as creative writing assignments and character/scene enactment, as well as smaller in-class checkpoints like reader responses, journaling, discussions, and reviews. This course will promote life-long reading habits in its students. The teacher will select and assign several whole-class or small-group novels throughout the semester, and students will also participate in independent reading with novels of choice. At the beginning of the semester, students will be required to have their parent or guardian sign a reading permission waiver dictating what novels will be covered with descriptions of each. Students will not be able to take the course without submitting the waiver.

PUBLIC SPEAKING IP CN: EP30

Grades 9-12 18 wks.

0.5 credit

This semester elective will provide students the opportunity to learn about verbal and nonverbal communication skills and how to alleviate stage fright. The course will have an emphasis on the preparation and delivery of a public speech. The focus of the course is speaking to inform, persuade and entertain. The class will also explore rhetorical strategies for creating arguments and debate.

FAMILY AND CONSUMER SCIENCE

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

development, discipline, and nutrition will be covered.



FAMILY & PRENATAL DEVELOPMENT IP, VB CN: FC10

Grades 9-12 18 wks. 0.5 credit All Levels

Requirement for Child Development CTP Students
Open to Non-CTP Students

This course is designed to give students insight into responsible decision making concerning family situations, pregnancy, and child development. Topics deal with families, parenthood, pregnancy, labor and delivery, and the physical, social, emotional, and intellectual development of newborns. This course will allow IN PERSON, not VB, students to experience taking a Real Care baby home for a weekend.



INFANT & TODDLER DEVELOPMENT IP, VB CN: FC20

Grades 9-12 18 wks. 0.5 credit All Levels

Requirement for Child Development CTP Students

This course will focus on what to do with infants and toddlers: how they grow, how they learn, and how they interact. Topics such as theories of development, normal growth and



EARLY CHILDHOOD DEVELOPMENT IP, VB CN: FC30

Grades 9-12 18 wks. All Levels 0.5 credit

No prerequisite; however, Family & Prenatal and Infant & Toddler are highly recommended.

This course focuses on the study of children from three years to eight years of age and children with special needs. Issues such as educational theorists and developmentally appropriate activities are discussed. Observation skills are introduced with two days of job shadowing/observation of preschoolers and children with special needs being required. Child Development Associate- Ready Certificate and Pennsylvania Keystone Star requirements for child care providers are introduced. Several community service projects are part of this class experience. Anyone interested in teaching with preschoolers or elementary aged level children would be interested in this class. You do not have to be part of CTP to take this class.



ADOLESCENT DEVELOPMENT IP, VB CN: FC40

Grades 9-12 18 wks. 0.5 credit
All Levels

No prerequisite; however, Early Childhood Development is recommended

This course focuses on the study of adolescents and is designed for those interested in working with them. Issues such as adolescent development, education theorists, teaching and learning styles, children with special needs are discussed. Observation skills, subject area academic standards are introduced. Those students interested in social work, psychology, or teaching upper elementary or secondary education would benefit from this class. You do not have to be part of CTP to take this class.



CHILD DEVELOPMENT/FIELD EXPERIENCE IP, VB CN: FC52 (Spring Only)

Grades 11 or 12

18 wks. All Levels 1.0 credit

Prerequisite: Early Childhood Development or Adolescent Development are required before taking this class.

This is a blended learning experience. A portion of this class is online. Students will be scheduled for a Study Hall. Students will work independently and with the teacher to complete all requirements. The Study Hall will serve as class time where students can work on their online assignments, activities, and tests.

This course is designed to study teaching methods in a variety of subject areas. Various strategies used to teach children from preschool to early adolescence are discussed. The highlight of this course is an active participation experience in an early childcare setting, primary elementary, or junior high setting where our students get "hands-on" experience with working with students in real classrooms under the direction of

real teachers. The students are required to provide their own transportation during their field experience. Child Development Associate-Ready competencies, a daily experience log, lesson plan booklet, and a planned unit become an integral part of the student portfolio. This is a hands-on experience that allows the students the opportunity to gain experience in the field of Child Development.

Please refer any questions about this blended course to Mrs. Kelly Erdos ext. 5278 or Shannon McGraw in the Guidance Office.

INTERIOR DESIGN IP, VB CN: FI10

Grades 9-12 18 wks. 0.5 credit
All Levels

In this course, students learn the principles and elements of design and how to apply them into a workable room. Practical application projects include working with color, pattern, texture and backgrounds. Students also learn how to draw a floor plan and use it to arrange furniture.

FALL SEASONAL CRAFTS IP CN: FN31

Grades 9-12 18 wks. 0.5 credit
All Levels

This is a course for all students interested in basic crafting skills. Craft projects are geared towards the seasons of fall and winter. Crafts range from basic sewing, knitting, needle point, and DIY projects. Create for yourself or others. Students are responsible for paying for some of their own supplies.

SPRING SEASONAL CRAFTS IP CN: FN32

Grades 9-12 18 wks. 0.5 credit

This is a course for all students interested in basic crafting skills. Craft projects are geared towards the seasons of spring and summer. Crafts range from basic sewing, crocheting, needle point, and DIY projects. Create for yourself or others. Students are responsible for paying for some of their own supplies.

COOKING 1: COOKING AND BAKING BASICS IP CN: FD30

Grades 9-12 18 wks. 0.5 credit
All Levels

This course is designed for any student with no prior cooking experience. In this class, you will learn how to work efficiently in the kitchen while preparing simple recipes. The emphasis is on basic cooking skills, and cooking methods used within the kitchen to achieve success when reading a recipe. Measuring, cutting, recipe reading, and nutritional techniques are all addressed.

COOKING 2: NOW THAT YOU CAN COOK IP CN: FD40

Grades 9-12 18 wks. 0.5 credit
All Levels

Prerequisite: Cooking 1: Cooking and Baking Basics

This course is designed for students who have taken a cooking course prior to this class. This class focuses on higher level cooking skills, recipe reading, and meal preparation. The emphasis in this class is on meal preparation with a focus on breakfast, lunch, and dinner meal planning along with preparation techniques to be more productive when preparing meals. Other topics

covered are nutrition and baking.

COOKING 3: COOKING FOR EVERY OCCASION IP

CN: FD50

Grades 10-12 18 wks. 0.5 credit All Levels

Prerequisite: Cooking 1: Cooking and Baking Basics and/or Cooking 2: Now That You Can Cook

This course is designed to be an in-depth study of meal planning, preparation, and presentation. The emphasis of this class is to build upon previously learned cooking and preparation skills to enhance the students' understanding and awareness of meal preparation. Other topics addressed are party planning, group meal planning, and holiday baking.

LEVELED UP COOKING IP CN: FD60

Grades 11 or 12 18 wks. 0.5 credit

All Levels

Prerequisite: Cooking 2 and/or Cooking 3

The main focus of this course is for students to understand and be able to perform the four main cooking methods. Students will learn and implement moist-heat cooking, cooking in fat, dry-heat cooking, and convenient cooking methods. Students will be proficient in their use of kitchen and outdoor equipment included but not limited to the oven, stove top, microwave, air fryer, toaster oven, and grill. This course will focus on Food safety and sanitation, using a recipe, preparation techniques, and the cooking methods. Students will learn to research, budget for, and prepare recipes with meal preparation in mind. This is our highest level of cooking course and requires that you have previous cooking experience in one of our other courses.

ON YOUR OWN IP, VB CN: FO30

Grades 11, 12 18 wks. 0.5 credit All Levels

This course is highly recommended to all students especially graduating seniors. The course will focus on exploring all aspects of adult life such as: personality development, healthy communication skills, relationships with family and friends, mate selection and marriage. This course also prepares students for life after high school focusing on how to make informed decisions such as purchasing a car, selecting an apartment, banking and establishing credit, finding a job, and filling out income tax turns. Students will practice dealing with future responsibilities in a positive, effective way.

NOTES

HEALTH/PHYSICAL EDUCATION

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

Health Ed 0.5 credit required for graduation Physical Ed .25 credit required in Grades 9, 10, 11, and 12 for graduation *Some classes will require appropriate dress *All P.E. classes require students to wear sneakers

CPR/FIRST AID IP CN: PC20

Grades 9- 12 18 wks. 0.5 credit
All Levels

NOTE: Does <u>not</u> fulfill graduation requirements for Health

Due to the rising costs from the American Red Cross, students that want to be certified with cards will be charged a fee to cover the American Red Cross Service Fee.

This course is based on American Red Cross
First Aid and CPR programs. The content of the
course includes adult, child, and infant rescue
breathing, choking rescue, CPR, basics.
Certification is possible for each class. There will
also be information about how to live heart
healthy lives, how to protect yourself from
infectious disease, and up-to-date information
concerning drugs, society, and behavior.

9th GRADE PHYSICAL EDUCATION IP CN: PE10

Grade 9 All year 0.5 credit

This course is required by all 9th graders. Class will be taught every other day opposite

freshman seminar for the entire school year.

This course will expose 9th grade students to a variety of physical education electives. Students will be taught elements of strength and conditioning, life and leisure activities, and team and individual activities.

COMPREHENSIVE PERSONAL HEALTH IP, VB CN: PH20

Grades 9-12

18 wks. All Levels 0.5 credit

This course is to be taken one time between 9th and 12th grade.

This course will provide a program of health instruction designed for students to evaluate their current health behaviors and attitudes. It will build health skills such as goal setting, decision making, stress and mental health management, fitness, and nutrition. This program also features upto-date information on HIV/AIDS; drugs and substance abuse; the cost of addiction, both personally and to society; and the impact of drugs on the family.

LIFEGUARDING IP CN: PLG0

Grades 9-12 18 wks. 0.25 credit All Levels

*Note: Fulfills P.E. graduation requirement

Due to the rising costs from the American Red Cross, students that want to be certified with cards will be charged a fee to cover the

American Red Cross Service Fee.

This course is based on the American Red Cross Lifeguarding Course. Certification is not a requirement for passing this Physical Education elective. Students who elect this course will be evaluated on: swimming rescue skills, back boarding, CPR for the professional rescuer and First Aid skills. This class will meet in the pool and classroom areas. Students will be expected to fulfill all American Red Cross skill requirements for both physical skills and written tests to be certified as a Lifeguard.

AQUATICS IP CN: PAQ0

Grades 9-12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

This coeducational course is taught in compliance with The American Red Cross, Pennsylvania Fishing and Boating Commissions, and the PIAA Swimming and Diving Rules and Regulations. The course will also emphasize personal and aquatic safety. The student must have a strong swimming background. Students will be given instruction experience in the pool area. Special programs offered will be in open water, canoeing, kayaking, American Red Cross water safety and competitive swimming, diving and water polo. This course will be for Physical Education credit.

LIFETIME AND LEISURE SPORTS IP CN: PLL0

Grades 10-12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

This class is designed to provide an opportunity for students with a desire to engage in less strenuous activities and have a lower level of skill background. The class will emphasize more of a cognitive assessment of activities as opposed to

demonstration of skills. Students will also be exposed to personal fitness. Learn basic strength building exercises, flexibility progressions in the fitness center. Students will be required to dress on days in the fitness center and designated walking days. Sneakers must also be worn daily.

STRENGTH & CONDITIONING IP CN: PSC0

Grades 10-12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

This course is for physical education credit. This class is designed for students who enjoy training and those who are involved in the sports teams for the school. Students should have knowledge of weight training and should also understand concepts of fitness workouts. Students would be training for their sports seasons by lifting, working on core, footwork, flexibility. Students would be monitored through workout charts and participation. This class would meet at the stadium annex every day.

TEAM AND INDIVIDUAL SPORTS IP CN: PTS0

Grades 10-12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

This class is designed to provide an opportunity for students who may or may not have a strong background in a variety of sports activities, but the student has an interest in improving skills and fitness levels. This student does not desire high-intense competition, but he or she still enjoys the participation in team and individual sports. Students will also be exposed to personal fitness. Learn basic strength building exercises, flexibility progressions in the fitness center. Students will be required to dress for class every day.

ADVANCED TEAM AND INDIVIDUAL SPORTS IP CN: PTS5

Grades 10-12 18 wks. 0.25 credit Note: Fulfills P.E. graduation requirement

This class is designed to provide an opportunity for students who have a background in a variety of sports activities. Students should be able to demonstrate basic sports skills at a proficient level. The student should have a background knowledge of game strategies. This class is designed for the competitive person, who enjoys playing games with a higher intensity.

NOTES

JUNIOR ROTC LEADERSHIP DEVELOPMENT

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

LEADERSHIP I IP CN: JR11 (Fall) CN: JR12 (Spring)

Grade 9, 10, 11 36 wks. 1.0 credit

This course covers introduction to JROTC, leadership theory, drill and ceremonies, hygiene and first aid, map reading, techniques of oral communications, cadet challenge (physical training and testing), and an introduction to Leadership II. These instructions are on an introductory level and are supplemented by the Instructor's optional subjects, which are selected to motivate and expand the academic and vocational aspects of the cadets.

LEADERSHIP II IP CN: JR20

Grade 10, 11, 12 36 wks. 1.0 credit All Levels

Prerequisite: Leadership I

This course covers intermediate leadership, drill and ceremonies, first aid, map reading, techniques of oral communications, drug, alcohol, and tobacco abuse, service and Senior ROTC opportunities, cadet challenge (physical training and testing), and an introduction to Leadership III. Instruction of material is at an intermediate level and builds upon previous instruction. Selected Instructor's subjects are also included to cover timely topics and build leadership motivation

LEADERSHIP III IP CN: JR30

Grade 11 or 12 36wks. 1.0 credit All Levels

This course covers applied leadership, drill and ceremonies, map reading, land navigation, techniques of oral communication, service and ROTC opportunities, and cadet challenge (physical training and testing). The Instructor's optional subjects are taught to expand upon the previous skills and knowledge learned during Leadership I and II and to emphasize hands- on or performance-type instruction.

LEADERSHIP IV IP CN: JR40 CHS: Agreement w/Pitt pending

Grade 12 36wks. 1.0 credit All Levels

This course covers advanced leadership techniques, drill and ceremonies, staff functions and procedures, advanced communications, and the cadet challenge (physical training and testing). The Instructor's optional subjects are taught to expand on other subject areas, cover timely topics of interest, allow for guest speakers, and cover opportunities available after graduation.

MATHEMATICS

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

Mathematics

3.0 credits required for graduation

Beginning with the graduating class of 2014, each
student must demonstrate proficiency in Algebra I
on the Keystone Exams, or provide evidence of
proficiency in Literature and Algebra I through
state-mandated alternative forms of assessment.
Students will take the Keystone Exams upon
completion of the corresponding courses.

*Students in these courses are required to take the end-of-course Keystone Exam.

ALGEBRA I PART II * IP, VB CN: MA08

Grade 10 36 wks. 1.0 credit

Prerequisite: Algebra I Part I

Students will continue through the Algebra I curriculum using problem solving techniques to focus on linear and quadratic functions, coordinate geometry, data analysis, laws of exponents, and polynomial and radical expressions.

KEYSTONE ALGEBRA * IP, VB CN: MA18

Grade 10 or 11 36 wks. 1.0 credit

Prerequisite: Algebra I or Algebra I Part II and a score of "Basic" or "Below Basic" on the Keystone Exam

This course is designed to prepare students who have passed Algebra I or Algebra I Part II, but have not reached proficiency on the Keystone Exam. Students will focus on improving Algebra I skills and concepts directly related to the Exam.

Students will have two opportunities to take the Exam. Eligible students will be notified.

ALGEBRA I * IP, VB CN: MA10

Grade 9, 10, 11, or 12 36 wks. 1.0 credit Average/Above Levels

Prerequisite: Teacher Recommendation

This is the first course of an academic sequence. Algebra is recommended for those students planning any post-secondary education. This course consists of solving equations and inequalities in one and two variables, polynomials, factoring, laws of exponents, systems of linear equations, and graphing linear equations. Also included is a presentation on rational and irrational expressions and concepts of quadratic equations. Real world applications and verbal problems are stressed. Students in the course are required to take the end-of-course Keystone Exam.

ALGEBRA II IP, VB CN: MA20

Grade 10, 11, or 12 36 wks. 1.0 credit

Average/Above Levels

Prerequisite: Algebra I and Geometry or Honors Geometry

A continuation of the concepts of algebra including linear, quadratic, polynomial, exponential, logarithmic, radical, and basic rational functions. Graphing procedures will be stressed. Graphing calculators will be used.

HONORS ALGEBRA II IP, VB CN: MA30 Gifted: MA35

CHS: Agreement w/La Roche pending

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

> Grade 9 or 10 36 wks. 1.0 credit Honors Level

Prerequisite: Algebra I and Geometry or Honors Geometry and Proficient or Advanced on the Keystone Algebra I Exam and Teacher Recommendation

This course will include the same content as Algebra II at a faster pace and with more rigorous problems. Additional topics include rational functions, matrices, conic sections, and sequences and series. This course is designed to challenge honors math students. Graphing calculators will be used.

GEOMETRY IP, VB CN: MG30

Grades 9-12 36 wks. 1.0 credit Average Level

Prerequisite: Algebra I

Students will learn the relationships of geometry using deductive and inductive reasoning.

Geometric figures, including lines, parallel and perpendicular lines, angles, angle relationships, triangles, and other polygons, circles, similarity, area, volume and three-dimensional drawings are studied, as well as an introduction to geometric proofs.

IP, VB CN: MG40

Grade 9

36 wks. 1.0 credit Honors Level

Prerequisite: Algebra I and Teacher Recommendation and Proficient or Advanced on the Keystone Algebra I Exam

This course will include the same content as Geometry at a faster pace and with more rigorous problems. Additional topics will include right triangle trigonometry, transformations, and detailed proofs.

INTRO TO TECHNICAL MATHEMATICS IP, VB CN: MT30

Grade 11 or 12 36 wks.1.0 credit
Average Level

Prerequisite: Geometry

This course is designed to provide exposure to a variety of mathematical ideas. These ideas will focus on mathematics used in trades and other technical fields. Topics may include trigonometry, basic statistics and finance.

CONSUMER MATH IP CN: MM20

Grades 11 or 12 36 wks.1.0 credit

Prerequisite: Keystone Algebra Exam and Teacher

Recommendation

A general education class with a blend of financial literacy and math applications.

Potential topics to include: continued practice of basic math computation skills, budgeting,

BC3 TECHNICAL MATHEMATICS I IP CN: MT35

Grade 11 or 12 36 wks. 1.0 credit Average/Above Average Levels Prerequisite: 80% or better in Algebra II

This course is designed to meet the needs of technology students with an emphasis on applications. Topics include numerical computation with significant digits, fundamental rules of algebra, right triangle trigonometry, vectors, plane and three-dimensional geometry, oblique triangles, polynomials, graphs and functions, linear equations, systems of linear equations, and variation.

Students will be required to purchase their own textbook from the BC3 bookstore.

Students must register and pay for this course prior to being scheduled. (Approximate Cost \$400 per 3 credit hours) See the guidance office for details.

ALGEBRA III IP, VB CN: MA40

Grade 10, 11 or 12 36 wks. 1.0 credit
Average/Above Average Levels
Prerequisite: Algebra II and Geometry
Consultation with a math teacher is recommended

This course is designed for the student who completed Algebra II successfully and, want to further their math education. Topics include a more in depth study of a variety of functions with an emphasis on graphing and application, inequalities and the study of trigonometric functions. Graphing applications will be used.

PRECALCULUS IP, VB CN: MC30 CHS: Aligned w/Carlow Agreement w/Pitt pending

Grade 11 or 12 36 wks. 1.0 credit
Average/Above Average Levels

Prerequisite: Algebra III

A continuation of higher algebraic functions, this course includes the study of inverse, rational, polynomial, exponential, and logarithmic functions as well as conic sections, trigonometry, an introduction to calculus including basic limits and derivatives.

Graphing calculators may be used.

HONORS PRECALCULUS IP, VB CN: MC40 GIFTED: MC45 CHS: Aligned w/BC3 & Carlow Agreement w/Pitt pending

Grade 10, 11, or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Algebra II and Geometry A or B Student, and teacher recommendation.

This course includes the study of many functions such as inverse, polynomial, rational, exponential, and logarithmic. The second semester is a comprehensive course of trigonometry including right triangle trig, unit circle trig, and solving trig equations. Conic sections and a brief introduction to calculus are included. Graphing calculators will be used. *A student who is not successful in the first semester of Honors Precalculus may be placed in Algebra III for the second semester.

HONORS STATISTICS IP, VB CN: MS40 CHS: Aligned w/BC3 Agreement w/Pitt pending

Grade 11 or 12

36 weeks

1.0 credit

Prerequisite: A or B in Algebra II (this is NOT a prerequisite for AP Statistics)

This course is designed to provide exposure to the collection, organization and analysis of data in order to draw meaningful conclusions from the data. This will give students an introductory exposure to statistics in case they need to take in college or simply to encourage them to analyze the vast amounts of data that are given to them on a daily basis, thus creating more educated citizens.

THE FOLLOWING AP COURSES are designed to prepare students for the Advanced Placement examination given in the spring. Course time is devoted to practice tests and preparation for this exam. Students who score well on the AP Exam may earn college credit. Graphing calculators are an integral part of each course. It is HIGHLY SUGGESTED THAT STUDENTS PROVIDE THEIR OWN GRAPHING CALCULATORS.

A.P. CALCULUS AB IP, VB CN: MC50 CHS: Aligned w/Carlow

Grade 11 or 12 36 wks. 1.0 credit Advanced Placement

Prerequisite: Honors Precalculus and Teacher Recommendation

Important theorems from algebra, analytic geometry and the theory of functions are reviewed in this course. Included is the study of derivatives and integrals of algebraic and transcendental functions and applications of derivatives and integrals.

A.P. CALCULUS BC IP CN: MC60

Grade 12 36 wks.

Advanced Placement

1.0 credit

Prerequisite: A.P. Calculus AB and Teacher Recommendation

This challenging course is a continuation of Calculus AB. There will be a review of Calculus AB topics; however, the main focus of the course will be on the new topics of Calculus BC. These topics include differential and integral calculus, series, parametric and polar equations.

A.P. STATISTICS IP, VB CN: MS50 CHS: Aligned w/BC3 & Carlow Agreement w/Pitt pending

Grade 10, 11, or 12 36 wks. 1.0 credit
Advanced Placement Level

Prerequisite: Algebra II, A or B Student, Teacher Recommendation

This course consists of descriptive and inferential statistics. Topics include data collection and description, hypothesis testing, confidence intervals, correlation and regressions, following the College Board Curriculum

NOTES

Mathematics Courses GRADE 8-12

		Classes you can take next year: ('X' Marks possible classes)																		
		Algebra 1	Algebra 1 Part 1	Algebra 1 Part 2	Geometry	CTP Geometry	Honors Geometry	Consumer Math	Intro to Tech Math	Algebra 2	CTP Algebra 2	Honors Algebra 2	BC3 Tech Math	Algebra 3	Precalculus	Honors Precalculus	Honors Statistics	AP Statistics	AP Calculus AB	AP Calculus BC
Current Class	Algebra 1				Х	Х	Х													
	CTP Algebra 1					X	X													
	Algebra 1 Part 1 (8 th Grade)	X																		
	Algebra 1 part 2				X			Χ												
	Geometry							X	Χ	Х										
	CTP Geometry										X	X								1
	Honors Geometry								Χ	X	X	X								
	Consumer Math				X															
	Intro to Tech Math							Χ		X										
	Algebra 2							X	Χ				X	X		X	X	X		
	CTP Algebra 2								Χ				X	X		X	X	X		
	Honors Algebra 2												X	X		X	X	X		
	BC3 Tech Math																X	X		
	Algebra 3												Χ		Х		X	Χ		
	Precalculus																X	X	X	
	Honors Precalculus																Х	Х	Х	
	Honors Stats												X	X						
	AP Statistics												Х	X						
	AP Calculus AB																X	X		X

At the end of 8th grade Algebra I, if a student does not demonstrate proficiency on the Keystone Algebra I Exam, that student must retake Algebra I. At the end of Algebra I or Algebra I Part II taken later than 8th grade, if a student does not demonstrate proficiency on the Keystone Algebra I Exam, that student must enroll in the Keystone Algebra course. In either case, a student may enroll in Geometry concurrently if the Keystone Exam score is in the top quarter of the Basic range and the Algebra I course grade is at least a "B"

MUSIC

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

MARCHING/SYMPHONIC BAND IP CN: NB31 (Fall) NB32 (Spring)

Grades 9-12 36 wks. 1.0 credit

Prerequisite: Audition

This course will offer a more advanced level of musical experiences and cover a wider range of advanced music literature through participation in a variety of ensemble settings. Students will participate in Marching Band during the first semester and Symphonic Band second semester. This class includes after school, evening, travel, and Band Camp obligations.

SEQUINETTES IP (Fall Only) CN: NS11

Grades 9-12 18wks. 0.5 credit

Prerequisite: Audition

This performance group participates as part of the Marching Band. The class includes afterschool, evening, travel, and Band Camp obligations. Students must be selected for the group through audition.

INTRODUCTION TO GUITAR IP, VL CN: NG30

Grades 9-12 18 wks. 0.5 credit

Virtual students must have guitar at home

This course is a beginning level class designed for students with little or no previous music experience. Basic techniques of acoustic guitar playing will be presented, including chordal accompaniment and melodic reading. Students will learn how to read guitar tablature and music notation.

ADVANCED GUITAR IP

CN: NG40

Grades 9-12 18 weeks 0.5 credit

Prerequisites - They must have taken the Fundamentals of Guitar class we offer or audition before scheduling.

Students can take this class for one semester or up to_eight semesters at the Senior High School.

This class is for students who have some experience and some basic understanding of guitar and want to progress further towards mastery. The prerequisite is to either take the fundamentals of guitar class or pass an audition. Students can take this class for one semester or for all eight semesters at the Senior High School. Here, they will gain advanced skills regarding guitar technique, improvisation, accompanying, solo playing as well as ensemble playing, and students will set their own goals for learning and skill development.

TORNADO VARSITY VOICES IP CN: NC51 (Fall) NC52 (Spring)

Grades 10-12 36 wks. 1.0 credit
OR
Grades 10-12 18 wks. 0.5 credit

Prerequisite: Audition

This is an advanced choral ensemble with the student roster determined by either audition or teacher recommendation. It will be a balanced SATB group of students in grades 10-12 that can perform a capella pop and jazz arrangements alongside contemporary and traditional choral repertoire. Rehearsals will be intense yet fun and interactive. Students will learn about vocal technique and will be encouraged to increase their musicianship skills on an ongoing basis. These advanced students will be encouraged to audition for PMEA festivals and for solos within our concert repertoire. This will be a visible group of singers that can perform at school concerts, community events, regional events and adjudication festivals. Teacher signature on the registration form is required. An audition may be required if a music teacher cannot provide a recommendation.

INTRODUCTION TO PIANO IP, VL CN: NP30

Grades 9-12 18 wks. 0.5 credit

Virtual students must have piano at home

This course is intended for beginners at the piano, and those who wish to study further can follow it up by taking the advanced piano course. Guided by the instructor, students will work at their own pace, gaining skills at the piano, while learning the theory, technique, music reading skills, and ear training necessary to know how to further hone those skills during and outside of the scope of this course. There are no prerequisites, and students do not need to own a piano or keyboard, as there will be plenty of practice opportunity during school.

ADVANCED PIANO IP, VL CN: NP40

Grades 9-12 18 wks. 0.5 credit

Prerequisite: Audition or Intro to Piano

Virtual students must have piano at home

Students can take this class for one semester or up to eight semesters at the Senior High School.

This class is for students who have some experience and some basic understanding of piano and want to progress further towards mastery. The prerequisite is to either take the introduction to piano class or pass a simple audition. Students can take this class for one semester or for all six semesters at the Senior High School. Here, they will gain advanced skills regarding piano technique, improvisation, accompanying, solo playing as well as ensemble playing, and students will set their own goals for learning and skill development.

STRING ORCHESTRA IP CN: NO11 (Fall) NO12 (Spring)

Grades 9-12 36 wks. 1.0 credit

Prerequisite: Audition

This course is intended to offer the student an opportunity to develop a repertoire ranging from traditional orchestral literature to popular music. Individual musical skill development will be encouraged in the areas of tone, intonation, rhythm, technique, and expression.

INSTRUMENTAL MUSIC LAB IP CN: NL30

Grades 9-12 18 wks. 0.5 credit

This course is designed for students that currently play a band and/or orchestral instrument. Guided by the instructor, students will work at their own pace, gaining advanced level skills at their instrument. Activities will include small ensembles, solo work, and audition preparation.

BUTLER HIGH SCHOOL CHORUS IP CN: NC41 (Fall) NC42 (Spring)

Grades 9-12 36 wks. 1.0 credit OR
Grades 9-12 18 wks. 0.5 credit

Chorus is a full-time sequential course designed to give students the opportunity to sing and perform as a large ensemble in a concert setting. Students will learn proper vocal technique while being exposed to all types of musical styles, including a focus on popular and contemporary music. Students will gain confidence in their individual singing voice as they experience the thrill of performing with a large ensemble. This fun and upbeat course provides an outlet for students to enhance their musical skills and creative qualities while developing a love and passion for singing.

HISTORY OF ROCK AND ROLL IP, VL CN: NRR0

Grades 9-12

18 wks. 0.5 credit

Virtual students will be expected to Live Stream class each day

This course is designed as an interactive journey of the eighty-year story of Rock and Roll. The class incorporates a wide range of activities that enable students to construct their own meaning of the topics and issues covered. Students gather information and address issues presented through videos, recordings, pictures and readings. Activities include everything from teacher instruction, classroom discussion and Google Slide presentations.

VOICE TECHNIQUE IP, VL CN: NV30

Grades 9-12

18 wks.

0.5 credit

This course is designed for students who come with an ability to learn a new vocal song, but with a desire to better understand the vocal mechanism and goals to improve technique, tone quality, diction, breath control, and other aspects of singing. Units will be presented in Broadway music, vocal jazz, art songs, modern pop, IPA (international phonetic alphabet), and other relevant eras in vocal music. Each student must be prepared to sing in front of their peers and to work with the instructor in short segments.

MUSIC & TECHNOLOGY

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

MUSIC THEORY IP, VL CN: NT30

Grades 10-12 18 wks. 0.5 credit

Virtual students will be expected to Live Stream class each day

This advanced course will introduce students to the foundations of music theory. Topics will include notation, intervals, scale forms, triads, chord progressions, voice leading, and rhythm. Information will be presented by way of computer software, lecture and demonstrations. Previous music experience is strongly suggested as this is an advanced course.

SONG WRITING IP CN: NE30 CHS: Aligned w/Pitt

Grades 9-12 18 wks. 0.5 credit

Prerequisite: It is recommended that students take theory first, but no prerequisite will be enforced.

Students in this course will learn methods to write songs through an understanding of musical form, tonal harmony and melodic structures. Whether the student is a budding pop song writer or a classical composer, the course will explore all genres and help students to refine their skills in writing songs and music pieces in forms that are marketable and distributable.

AUDIO RECORDING I IP CN: NR30

Grades 9-12 18 wks.0.5 credit

This course will give students an introduction to the field of professional sound recording. Students will learn a brief history of recording, the set-up process for various recording projects, and how to use some high quality audio recording equipment, as well as home studio consumer equipment. Students will get hands-on experience using recording gear in most aspects of audio production starting with studio set-up and ending with CD creation, jacket cover design, and distribution.

AUDIO RECORDING II IP CN: NR40

Grades 9-12 18 wks. 0.5 credit

Prerequisite: The Art of Audio Recording I

This class will pick up where Audio Recording I left off, giving students more experience using mixers, microphones, and recording software and hardware. This class will be project-based and hands-on, incorporating knowledge of the science behind audio recording along with musical aspects as well.

NOTES

SCIENCE

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
L: Virtual Live

SCIENCE - 3.0 credits required for graduation

FISHERIES/AQUATICS SCIENCE IP CN: SFA30

Grade 10, 11, 12

18 wks.

0.5 credit

Prerequisite: Biology with a B or high (Academic), C or higher (Honors)

This course is a 1 semester project-based science elective. Students study a variety of topics that include: components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of organisms; changes within aquatic environments; origin and use of water in a watershed, and the use of aquaponics/sustainable systems. Students will spend lab time in the SHS Fisheries Science Lab working as part of our PA Fish & Game Commission Nursery Catfish and Trout in the Classroom programs.

GLOBAL SCIENCE IP, VB CN: SG30

Grades 10, 11, 12 36 wks. 1.0 credit Basic Level

This course is designed to provide general, physical and environmental concepts and skills to the basic level student. Concepts explored include earth and space, weather, and environmental science topics

FORENSIC SCIENCE I IP CN: SF10

Grade 10, 11, or 12 18 wks. 0.5 credit

Average/Above Levels

Forensic science is an investigative course that analyzes criminal evidence. Some of the topics that will be discussed are: crime scene investigations, fingerprinting, handwriting, blood and blood splatter, and DNA fingerprinting.

FORENSIC SCIENCE II IP CN: SF20

Grade 10, 11, or 12 18 wks. 0.5 credit

Prerequisite: At least a "C" in Forensics Science I

This course will be designed to continue to challenge students with topics such as arson, impressions, ballistic trajectories, hair and fiber, death, dying and decay; along with chemical analysis of drugs, poisons, and trace evidence. Students will learn about careers involved with forensics science and will have the opportunity to investigate, and create, crime scenes. The students will be given the tools to interpret data and techniques for both chemical and biological analysis of evidence.

EPIDEMIOLOGY I

ΙP

CN: SE10

Grade 10, 11, 12 18 wks. 0.5 credit Honors Level

Prerequisite: "A" or "B" in Honors Biology and successful completion of, or enrolled in, Honors Chemistry:

This course will introduce students to Epidemiology and public health. Students will differentiate between various types of diseases, learn about methods of transmission and prevention of disease, analyze patterns, identify environmental factors associated with the distribution of disease, and learn how to apply methodology used by epidemiologists.

EPIDEMIOLOGY II IP CN: SE20

Grade 10, 11, 12 18 wks. 0.5 credit Honors Level

This course is designed to reinforce students' knowledge from Epidemiology I and apply that to real world problems and investigations through case studies. Students will be introduced to more challenging epidemiology concepts, which will require active participation in class. This course strengthens the understanding of epidemiology and public health.

IP, VB CN: SB20

Grade 9 36 wks. 1.0 credit Basic Level

Prerequisite: Admission to Basic Level Courses

Basic biological principles will be examined through the topics of biochemistry, protein synthesis, genetics, ecology, and evolution. Students in this course are required to take the end-of-course Keystone Exam.

ACADEMIC BIOLOGY IP, VB CN: SB30

Grade 9 36 wks. 1.0 credit

Average/Above Levels Prerequisite: 8th grade science teacher recommendations

Academic biology is a comprehensive course that is designed to provide students with an indepth understanding of major biological concepts. The course includes the following topics: cells, protein synthesis, biochemistry, genetics and ecology. Students in this course are required to take the end-of-course Keystone Exam.

EXAM PREP IP, VB CN: SB25

Grade 10 or 11 36 wks. 1.0 credit
Students who have not scored proficient on the Keystone
Biology Exam can schedule this class.

This course is intended to provide supplemental instruction for those students who need to retake the Keystone Biology Exam. Topics from Biology will be revisited through various lab experiences, practice exams, animations, and web-based tutorials.

HONORS BIOLOGY IP, VB CN: SB40

Gifted: SB45

Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP

> Grade 9 36 wks. 1.0 credit Honors Level

Prerequisite: an "A" in science or with teacher

recommendation and "A" or "B" in Algebra I

This is a high level, fast-paced course for the committed science student. Topics include ecology, natural selection, biochemistry, cellular activities, genetics, and classification. Emphasis will be given to the scientific method, laboratory experiences, and the practical application of these skills and knowledge. Modifications are available for gifted students.

Students in this course are required to take the end-of-course Keystone Exam.



IP CN: SB35

Grade 11 or 12 18 wks. 0.5 credit Average/Above Levels

Prerequisite: At least a "B" in Biology and Chemistry

Designed for students with a high level of interest in science and who are planning on a career in a biological field, this project-based, one semester course is the study of molecular, micro, and cell biology. Topics include bioorganic compounds, cellular processes of Eukaryotic and Prokaryotic cells, DNA structure and replication, protein synthesis, as well as introductory laboratory methods in biotechnology and genetic engineering.

A.P. BIOLOGY IP CN: SB50

CHS: Agreement w/La Roche pending

Grade 11 or 12 36 wks. (10 pds/wk) 1.0 credit
Advanced Placement

Prerequisite: "A" or "B" in both Biology and Chemistry.

Intended for students pursuing medical, veterinarian, or healthcare careers, this rigorous lab oriented college-level course prepares for the AP Exam administered in the spring. Course

topics include cells, biochemistry, heredity, cellular energy, ecology, molecular biology, and evolution.



HEALTH CAREERS IP, VB CN: SH30

Grade 10, 11, or 12 18 wks. 0.5 credit

Academic Level

Prerequisite: At least a "C" in Biology and successful completion of or enrolled in Chemistry or Physics

This course introduces students interested in health-related careers to core concepts that are reflected throughout the health professions. Topics include therapeutic communications, medical law and ethics, foundation skills, and investigations of health careers.

ANATOMY & PHYSIOLOGY IP, VB CN: SA30

Grade 11 or 12 36 wks. 1.0 credit

Academic Level

Prerequisite: "C" or above in Biology and successful completion of or enrollment in Chemistry or Physics

This course is designed to prepare students for healthcare or medical careers. The ten systems of the body are explored with many lab experiences offered. Actual and virtual dissections of various mammalian structures are performed along with case studies and diagnostic activities to enhance students' problem-solving skills.

HONORS ANATOMY & PHYSIOLOGY IP, VB CN: SA40

Grade 11 or 12 36 wks. (5 pds./wk.) 1.0 credit Honors Level

Prerequisite: 90% or better in both Honors Biology and Honors Chemistry

This rigorous course is intended for motivated students intent on medical field careers. Body organization, homeostasis, pathology, the ten body systems, and clinical applications will be presented. Lab work will include dissections, case studies, mock medical scenarios, vital signs instruction, research design and analysis.

IP, VB CN: SC30

Grade 10 or 11 36 wks. (daily class and rotating lab)
1.0 credit Average Level

Prerequisite: Successful completion or enrollment in Algebra I and successful completion of Biology

This course introduces the student to basic chemistry principles and concepts. The topics will include matter, atomic structure, elements, the periodic table, compounds, and chemical reactions. Lab experiences coordinate material and stress technique.

HONORS CHEMISTRY IP, VB CN: SC40 Gifted: SC45

Grade 10 or 11 36 wks. (daily class and rotating lab)
1.0 credit Honors Level

Prerequisite: Completion of or enrolled in Algebra II.
Successful completion of Honors Biology or an "A" in
Academic Biology or Biology with teacher
recommendation.

This course will emphasize the fundamental principles of the structure of atoms and molecules, chemical bonding, chemical reactions, periodicity, stoichiometry, nomenclature, gas laws, and acids and bases. Proper lab and data analysis techniques will be developed.

A.P. CHEMISTRY IP CN: SC50 CHS: Agreement w/La Roche pending

Grade 11* or 12 36 wks. (10 pds./wk.) Advanced Placement 1.0 credit

Prerequisite: Honors Chemistry and Algebra II

This second year chemistry course centers around the curriculum published by the College Board. Advanced topics include atomic structure, bonding, gas laws, thermodynamics, solutions, electrochemistry, and equilibrium. Laboratory exercises stress laboratory techniques and applications of theory.

ORGANIC CHEMISTRY IP CN: SC35

Grade 11 or 12 18 wks. 0.5 credit Honors Level

Prerequisites: At least a "B" in Honors Chemistry or an "A" in Academic Chemistry plus teacher recommendation

This course introduces concepts and topics in organic chemistry to serve as a foundation for students considering a career in chemistry or other related STEM fields. It will include an overview of the major topics covered in college level first semester organic chemistry. These topics include: IUPAC nomenclature, functional groups, characterization, structure and conformations among others.

INTRODUCTION TO AGRICULTURAL SCIENCES IP

CN: SA20

Grade 11 or 12 36 wks. 1.0 Academic Level

1.0 Credit

This class will be focused on exploring various aspects of agriculture, such as, plant systems, animal systems, and mechanization. provide students with the knowledge, skills, and experiences necessary to thrive in the agricultural sector and related fields. The aim of this class is to provide a comprehensive class that emphasizes sustainability, career readiness, and community engagement, that will empower students to become informed, responsible, and innovative leaders in agriculture and beyond.

ECOLOGY and ENVIRONMENTAL SCIENCE IP, VB CN: SE30

Grade 11 or 12 36 wks.

Basic Level

1.0 credit

This course examines the relationship of biological, environmental, and physical science to the student's daily life. Ecological systems with special emphasis on environmental damage will be studied. Topics such as soil and water ecology, pollution, population growth, and natural resource conservation are included.

HONORS ENVIRONMENTAL SCIENCE IP, VB CN: SE40

Grade 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Successful completion of Academic Biology and Chemistry

Interrelationships of our natural world are

studied as students identify and analyze environmental problems. Outdoor experiences and environmental topics unique to Pennsylvania are emphasized. Classes will frequently be held outside, in all weather conditions. Presented at a higher level, the course is designed to meet the needs of students interested in an environmental-related field.

ACADEMIC PHYSICS IP, VB CN: SP30

Grade 11 or 12 36 wks. (daily class and rotating lab)
1.0 credit
Academic (Average) Level

Prerequisite: Enrollment in Algebra II or higher

This is a moderately paced laboratory course requiring the use of Algebra and Geometry. Physics laws are linked to scientific theory through the use of math and problem-solving. Topics may include: mechanics (motion, forces, energy and momentum) and energy (heat, light, sound and electricity/magnetism).

A.P. PHYSICS I IP CN: SP60

Grade 10, 11 or 12 36 wks. (10 pds/wk.) 1.0 credit Honors Level/Advanced Placement

Prerequisite: Enrollment in Algebra II or higher

AP Physics I is an algebra-based, introductory college-level course that includes laboratory experiences. Topics include: kinematics; force and translational dynamics; work, energy, and power; linear momentum; torque and rotational dynamics; energy and momentum of rotating systems; oscillations; and fluids.

A.P. PHYSICS II IP CN: SP70

Grade 11 or 12 36 wks. (10 pds/wk.) 1.0 credit Honors Level/Advanced Placement

Prerequisite: Completion of any prior Physics course and enrollment in Pre-Calculus or higher

AP Physics II is an algebra-based college level physics course that includes laboratory experiences. Topics include: thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetism; geometric optics; waves, sound, and physical optics; and modern physics.

A.P. PHYSICS C: MECHANICS
IP
CN: SP50
CHS: Aligned w/Pitt, Agreement
with La Roche pending

Grade 11 or 12 36 wks. (10 pds./wk.) 1.0 credit Advanced Placement

Prerequisite: Completion of or currently enrolled in Calculus AB

Physics C: Mechanics is equivalent to a calculusbased, college-level physics course. Topics include: kinematics; force and translational dynamics; work, energy and power; linear momentum; torque and rotational dynamics; energy and momentum of rotating systems; and oscillations.

NOTES

RECOMMENDED SCIENCE COURSE SEQUENCE

Grade	Basic Level Sequence	Academic Level Sequence	Honors Level Sequence	ADD-on Science Electives
9	Biology	Academic Biology	Honors Biology	
10	Global Science, and / or Keystone Biology Exam Prep	Academic Chemistry, Academic Physics and / or Keystone Biology Exam Prep, Global Science	Honors Chemistry, AP Physics I *and/or Keystone Biology Prep	Fisheries/ Aquatic Science, Forensic Science I & II, Health Care/ Careers Epidemiology I & II
11	Global Science, Environmental	Academic Chemistry, Academic Physics, or Anatomy & Physiology, Global Science	AP Biology, AP Chemistry, Academic Physics, AP Physics 1, AP Physics II AP Physics C, Honors Environmental Science Anatomy & Physiology (either Academic or Honors), Agricultural Science	Biotechnology, Fisheries/ Aquatic Science, Forensic Science I & II, Health Care/ Careers, Organic Chemistry, Agricultural Science, Epidemiology I & II
12	Global Science, Environmental	Academic Chemistry, Academic Physics, or Anatomy & Physiology	AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Physics C, Honors Environmental Science Anatomy & Physiology (either Academic or Honors)	Biotechnology, Fisheries/ Aquatic Science, Forensic Science 1 & 11, Health Care/ Careers, Organic Chemistry, Epidemiology I & II, Agricultural Science

^{*}When Scheduling, students should pay close attention to course prerequisites (outlines in this course guide) and teacher recommendations.

SOCIAL STUDIES

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

Social Studies 4.0 credits Required for Graduation

World History to 1450 9 (Required, 1 credit) World History 1450-Present 10 (Required, 1 credit) OR AP World History (1 credit) Modern American History 11 (Required, 0.5 credit) OR

AP US History (1 credit)
Amer. Government 11 (Required, 0.5 credit) OR

AP US History (1 credit)
Economics 12 (Required, 0.5 credit) OR AP
Comparative Government (0.5 credit) OR AP European
History (1 credit) OR AP Macroeconomics (0.5 credit)
Required Elective 10-12: Law and Order I OR
Psychology OR Sociology OR Current Events OR
Geography Edgenuity (Required, 0.5 credit)

WORLD HISTORY TO 1450 IP, VB CN: HW20

Grade 9 36 wks. 1.0 credit
Basic Level

Prerequisite: Admission to Basic Level Courses

Each student is required to take World History to 1450 in ninth grade. This course will introduce the student to the development of civilization in the ancient, and medieval periods of history from a global perspective (*ca.* prehistory – A.D. 1450). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is geared towards students who have difficulty reading and/or comprehending historical text and other written materials.

WORLD HISTORY TO 1450, IP, VB ACADEMIC CN: HW30

Grade 9

36 wks. Academic Level 1.0 credit

Each student is required to take World History to 1450 in ninth grade. This course will introduce the student to the development of civilization in the ancient, and medieval periods of history from a global perspective (ca. prehistory – A.D. 1450). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is intended for students who experience little or no difficulty in reading and/or comprehending historical text or other written materials.

WORLD HISTORY TO 1450, IP, VB HONORS/GIFTED CN: HW40 Gifted: HW45

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

> Grade 9 36 wks. 1.0 credit Honors Level

Each student is required to take World History to 1450 in ninth grade. This course will introduce the student to the development of civilization in the ancient and medieval periods of history from a global perspective (*ca.* prehistory – A.D. 1450). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is appropriate for students who experience no

difficulty in reading and/or comprehending historical text or other written materials and are able to research and write independently. Modifications are available for gifted students.

WORLD HISTORY 1450 - PRESENT IP, VB CN: HH20

Grade 10 36 wks. 1.0 credit Basic Levels

Each student is required to take World History 1450-Present in tenth grade. This course will introduce the student to the development of civilization in the ancient, and medieval periods of history from a global perspective (ca. A.D. 1450 - present). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is geared towards students who have difficulty reading and/or comprehending historical text and other written materials.

WORLD HISTORY 1450 – PRESENT, IP, VB ACADEMIC CN: HH30

Grade 10 36 wks. 1.0 credit Average Level

Each student is required to take World History 1450-Present in tenth grade. This course will introduce the student to the development of civilization in the modern period of history from a global perspective (ca. A.D. 1450 - present). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is appropriate for students who do not experience any difficulty in reading and/or comprehending historical or cultural materials.

WORLD HISTORY 1450 – PRESENT, IP, VB HONORS (OR GIFTED) HONORS CN: HH40 Gifted: HH45

Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP

> Grade 10 36 wks. 1.0 credit Honors Level

Prerequisite: "C or higher in most recent Honors or AP Social Studies course or an A in you most recent Academic Social Studies course"

Each student is required to take World History 1450-Present in tenth grade. This course will introduce the student to the development of civilization in the modern period of history from a global perspective (ca. A.D. 1450 - present). Students will use a variety of resources to study narrative history, geography, and cultures of the world's people. This level of the course is appropriate for students who experience no difficulty in reading and/or comprehending historical or cultural materials and are able to research and write independently. Modifications are available for gifted students.

A.P. WORLD HISTORY: MODERN IP CN: HH50

Grade 10 36 wks. 1.0 credit
Advanced Placement

Prerequisite: This course may be taken with teacher recommendation and B or higher in Honors World History to 1450 in place of Honors World History Since 1450.

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The

course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. The course is designed to be roughly the equivalent to an introductory college or university survey of modern world history and prepare students for the Advanced Placement Examination given in the Spring.

MODERN AMERICAN HISTORY IP, VB CN: HA20

Grade 11 18 wks. 0.5 credit Basic Level

Prerequisite: Admission to Basic Level Courses

The course is intended to provide the student with a broad overview of American history from World War II to the present. This course uses a chronological and thematic approach in covering the major events and personalities that have shaped modern American society. The student will be responsible for reading assignments, exams, and class projects as required by the instructor. The course is designed to help those students who have difficulty reading and comprehending historical information.

MODERN AMERICAN HISTORY, ACADEMIC IP, VB CN: HA30

Grade 11 18 wks. 0.5 credit Average Level (Required Course)

Using a chronological and topical approach, this course will cover the major events and personalities in American history from World War II to the present. Homework and some computer/ library work will be required. The emphasis will be on the major trends leading to the events of the present day.

MODERN AMERICAN HISTORY, HONORS IP, VB CN: HA40

Grade 11 18 wks. 0.5 credit Honors Level

"Prerequisite: C or higher in most recent Honors or AP Social Studies course or an A in your most recent Academic Social Studies course"

This course provides an in-depth study of American culture from World War II to the present. Using a chronological approach, the major events and personalities of the past 80 years will be studied. This course is designed for students interested in American history as well as those going into post-high school education. A moderate amount of computer-based research will be required.

MODERN AMERICAN HISTORY, HONORS PLEX IP, VB CN: HA40PX

Grade 11 18 wks. 0.5 credit Honors Level

Prerequisite: C or higher in most recent Honors or AP Social Studies course or an A in your most recent Academic Social Studies course"

This course provides an in-depth study of American culture from World War II to the present. Using a chronological approach, the major events and personalities of the past 80 years will be studied. This course is designed for students interested in American history as well as those going into post-high school education. A moderate amount of computer-based research will be required. This is an independent course that utilizes a personalized learning framework where students are expected to work independently or in small groups to complete posted weekly assignments. This course is designed around college-level experiences.

A.P. U.S. HISTORY IP, VB CN: HA50

Grade 10, 11, or 12 36 wks. 1.0 credit
Advanced Placement

Prerequisite: This course may be taken with teacher recommendation and B or higher in most recent Honors or AP Social Studies course" in place of the required Modern American History and American Government courses.

AP U.S. History covers key events and developments from 1491 to the present, focusing on historical analysis, argumentation, and reasoning skills. Students practice AP-style questions and thesis writing in preparation for the spring exam.

A.P. EUROPEAN HISTORY IP CN: HE60

Grade 11 or 12 36 wks. 1.0 credit
Advanced *Placement*

Prerequisite:

This course may be taken with teacher recommendation and "B or higher in most recent Honors or AP Social Studies course" in place of the required Economics course.

This course is designed to provide the student with an in-depth study of European history. Chronologically, it covers the years from the end of the Middle Ages to the present. One goal is the further understanding of the diplomatic, political, and economic structure of the modern world. A second is to develop an appreciation of the scientific and cultural contributions made by the creators of the western heritage; and a third, to promote the ability to see relationships between political, economic, and intellectual history. Students will participate in debates and group discussions, as well as reviewing two books during the year. Students who successfully complete this course are not required to take Economics. This course is designed to prepare students for the Advanced Placement Examination given in the Spring.

U.S. GOVERNMENT IP, VB CN: HG20

Grade 11 18 wks. 0.5 credit
Basic Level

Prerequisite: Admission to Basic Level Courses
Students will become more informed citizens
through this course. Students will learn about
the history of our government, what it means
to be a citizen, the three branches of
government, voting, and political parties.
Students will also use the computer lab and
library to research careers.

U.S. GOVERNMENT, ACADEMIC IP, VB CN: HG30

Grade 11 18 wks. 0.5 credit Average Level

To improve citizenship perspectives, this course teaches the transition from colonial to constitutional government, principles of American government, the American political system, presidency/congress/judiciary, political parties, and the voter in modern society. There will be an introduction to Pennsylvania government as well.

U.S. GOVERNMENT - HONORS IP, VB CN: HG40

CHS: Agreement w/La Roche pending

Grade 11 18 wks. Required 0.5 credit

Honors Level

Prerequisite: "C or higher in most recent Honors or AP Social Studies course or an A in you most recent Academic Social Studies course"

This course emphasizes major high level political concepts. The organization and conduct of this course is designed to help the average or above-average student who desires post-high school education. This course analyzes constitutional

rights and privileges, the federal system, measuring the American presidency, legislative and judicial functions, and voting and political parties. The state and local government will also be featured. Considerable computer-based research will be required.

A.P. COMPARATIVE GOVERNMENT IP CN: HG50

Grade 11 or 12 18 wks. 0.5 credit Advanced Placement

Prerequisite: This course may be taken with teacher recommendation and "B or higher in most recent Honors or AP Social Studies course" in place of the required Economics Course.

This college-level course examines the political systems and governments of Great Britain, Iran, China, Russia, Nigeria, and Mexico. Students will explore different types of regimes worldwide and analyze current foreign and domestic policy issues. Successful completion of the course exempts students from Economics. Designed to prepare students for the AP Examination in the Spring, this course offers a comprehensive understanding of global political systems.

A.P. MACROECONOMICS IP CN: HE50

Grade 12 18 wks. 0.5 credit
Advanced Placement

Prerequisite: This course may be taken with teacher recommendation and "B or higher in most recent Honors or AP Social Studies course" in place of the required Economics Course.

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students'

familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

The course is designed as an initial college- level course in macroeconomics and as a foundation for possible future study in economics or business. Students' second goal of the course is to prepare for the AP Exam. The exam will take place in May. Passing the exam will result in college credit at almost all colleges and universities. Throughout the course, students will have ample opportunity to improve their writing, speaking, critical- thinking, and consensus-building skills.

ECONOMICS IP, VB CN: HE20

Grade 12 18 wks. 0.5 credit
Basic Level

Prerequisite: Admission to Basic Level Courses

This course is designed to promote and develop consumer education and skills which all citizens need in order to function more efficiently in a market society. Emphasis will be placed on everyday economic choices/decisions most citizens face, such as personal budgets, sources of income (i.e., vocational choices, investment/savings), and credit vehicles and the use and maintenance of credit/debit accounts. Additionally, the student will explore consumer rights issues and their role as consumers within the circular flow of economic activity.

ECONOMICS, ACADEMIC IP, VB CN: HE30

Grade 12 18 wks. 0.5 credit

Average Level

This course is designed to teach economic concepts, skills, and ideas which the average

citizen needs in order to function efficiently in the marketplace. Emphasis is on the functions of production, consumptions, economic institutions, the workers and productivity, and major economic agencies. Also emphasized is the basic background for everyday economic decisions most citizens must choose, such as household budgets, personal investments, insurance options, etc. Some library work will be required.

ECONOMICS, HONORS IP, VB CN: HE40

Grade 12 18 wks. 0.5 credit Honors Level

"Prerequisite: C or higher in most recent Honors or AP Social Studies course or an A in you most recent Academic Social Studies course"

This course emphasizes major high-level economic concepts. The organization and conduct of this course is designed to help the student of average or above-average ability who desires post-high school education. This course analyzes concepts and ideas such as economic scarcity, resource allocation, free market power and price determination, causes, consequences, and cures for inflation, as well as economic controls and productivity.

CURRENT EVENTS IP CN: HM20

Grades 9-12 18 wks. 0.5 credit Basic/Average Levels

This course will emphasize current events at a local, national, and international level. Students will incorporate the use of a multitude of resources such as the internet, newspapers, magazines, and cable networks.

IP CN: HJ30

Grade 10, 11, or 12 18 wks. 0.5 credit

Law and Order I introduces students to the U.S. criminal justice system's current practices and future trends. Topics include crime, crime prevention, investigatory techniques, legal strategies, correctional practices, and the distinction between criminal and civil law. Instead of traditional exams, students will participate in mock trials, gaining hands-on experience with courtroom procedures. Guest speakers with realworld legal expertise will share insights into their professions. This course combines practical experiences and foundational knowledge, offering a comprehensive look at the justice system in action.

LAW AND ORDER II IP CN: HJ 40

Grade 11 or 12 18 wks. 0.5 credit

Prerequisite: "C" or Higher in Law I

Law and Order II builds on Law and Order I, focusing on civil and family law. Students will explore court procedures, learn persuasive techniques, and develop effective communication skills. These abilities are essential for careers in law and valuable in many other areas. Instead of traditional exams, students will participate in mock trials, gaining hands-on experience with courtroom procedures. Guest speakers with real-world legal expertise will share insights into their professions.

PSYCHOLOGY IP, VB CN: HP30

Grade 10, 11, or 12 18 wks. 0.5 credit

The purpose of this course is to introduce the senior high school student to the study of human behavior and personality from an academic perspective. Audio-visual material, group activities, role-playing, and class discussion are used to expose the student to the history, development, and schools of psychology.

BC3 PSYCHOLOGY IP CN: HP35

Grade 11 or 12 18 wks. 0.5 credit

Prerequisite: minimum 3.0 overall GPA (3 college credit hours)

This is a dual enrollment course offered in conjunction with Butler County Community College. Students enrolled in this college course will receive a basic introduction to the basic concepts and methods of the scientific study of behavior. Topics include: the history of Psychology; research methods; the biology of behavior; classical and operant conditioning; memory; cognition, language, and intelligence. Students will be required to purchase their own textbooks from the BC3 bookstore and pay for the college credits. Students must register and pay for this course prior to being scheduled. Check with BC3 for tuition rates and textbook cost. See the guidance office for details.

SOCIOLOGY IP, VB CN: HS30

Grade 10, 11, or 12 18 wks. 0.5 credit

This course is a glimpse of the major concepts of sociology – the study of human society and interaction. The course uses multiple perspectives to focus on the issues of: culture, social interaction, socialization, groups, institutions, crime, collective behavior, and social inequality.

SOCIOLOGY PLEX IP, VB CN: HS30PX

Grade 11 or 12 18 wks. 0.5 credit

This course is a glimpse of the major concepts of sociology – the study of human society and interaction. The course uses multiple perspectives to focus on the issues of: culture, social interaction, socialization, groups, institutions, crime, collective behavior, and social inequality. This is an independent course that utilizes a personalized learning framework where students are expected to work independently or in small groups to complete posted weekly assignments. This course is designed around college-level experiences.

BC3 SOCIOLOGY IP CN: HS35

Grade 11 or 12 18 wks. 0.5 credit

Prerequisite: minimum 3.0 overall GPA (3 college credit hours)

This is a dual enrollment course offered in conjunction with Butler County Community College. Students enrolled in this college course will receive an orientation to the field of sociology dealing generally with our social

institutions and their functions. There is an examination of the concepts of culture, personality, social process, social institution, and social change. Students will be required to purchase their own textbooks from the BC3 bookstore and pay for the college credits. Students must register and pay for this course prior to being scheduled. Check with BC3 for tuition rates and textbook cost. See the guidance office for details.

GEOGRAPHY (Edgenuity Only)

VB CN:

HG10

Grades 9-12 18 wks.

0.5 credit

This course is offered on the Edgenuity platform and is only available as an online course. The content is designed for students enrolled in academic or beginner courses. The course covers a basic introduction to geography.

NOTES

TECHNOLOGY EDUCATION

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

The Technology Education classes are grouped into four focused pathways. The Engineering Pathway consists of three essential and three supplemental courses. This pathway primarily utilizes current computer technology and software, although the advanced classes will be using some tools, equipment, and lab space to perform prototype construction and other hands-on activities. The Exploring Computer Aided Drafting class provides an introduction to technical sketching, design, and basic 2D drawings with layout. construction and computer-aided software. The Architectural Pathway consists of five essential and two supplemental courses. The Architectural Pathway teaches computer aided design with various aspects of civil, commercial and residential designs. Site plans, elevations, construction details, floor plans and 3D models will be produced. The Manufacturing Pathway consists of six essential and three supplemental courses. Design and Manufacturing and Material Engineering are the foundations of this pathway. You will have the opportunity to use CAD software to design a project(s) in a Manufacturing Lab. The Agricultural Pathway will consist of three essential courses and work on emphasizing real-world, occupationally relevant experiences of significant scope and depth in Agricultural Business, Agricultural Mechanics, Agriscience, Animal Science, Forestry and Natural Resources, Ornamental Horticulture, and Plant and Soil Science.

PATHWAYS	Architecture / Construction Pathway	Manufacturing Pathway	Engineering Pathway
ESSENTIAL	Exploring Computer	Exploring Computer	Exploring Computer
COURSES	Aided Drafting	Aided Drafting	Aided Drafting
ESSENTIAL	Materials	Materials	PLTW Intro to
COURSES	Manufacturing	Manufacturing	Engineering
ESSENTIAL	Architectural Design	2023-24 Design and	Advanced
COURSES		Manufacturing	Engineering
ESSENTIAL	Advanced	Advanced	
COURSES	Architecture	Manufacturing	
ESSENTIAL COURSES	Advanced Manufacturing	2023-24 Applied Engineering and Manufacturing	
ESSENTIAL COURSES		PLTW Intro to Engineering Design	

SUPPLEMENTAL COURSES	2024-2025 Maker Lab	Game Development	Engineering Design and Product Development
SUPPLEMENTAL COURSES	PLTW Intro to Engineering	Pre Apprenticeship	Power/Transportation Technology
SUPPLEMENTAL COURSES			Principles of Engineering

ENGINEERING PATHWAY

EXPLORING COMPUTER-AIDED DRAFTING IP, VL CN: ID20 CHS: Aligned w/BC3

Grades 9-12 36 wks. 1.0 credit All Levels

Recommended for students who have an interest in computer aided drafting and design, engineering, architecture, and interior design. Course will begin by exploring the fundamentals of drafting and design such as 2D and 3D drawings, and dimensioning. Students will then progress to the use of the latest versions of Autocad, Inventor, and Revit software. Architectural design will also be covered in this course. Students will also use software to use 3D printers and laser engraving software to produce prototypes.

(Project Lead the Way) IP, VL CN: ID30

Grades 9-12 36 wks. 1.0 credit
All Levels

The curriculum of this course is designed to introduce students to multiple fields of engineering. This course is a good way to explore whether you possess the interests and aptitudes to pursue a career in one of the many fields of engineering. It will also give you the base

information to take more advanced computer aided drafting classes. In this class the Project Lead the Way Curriculum will be used.

ENGINEERING DESIGN and PRODUCT DEVELOPMENT CN: IE30

Prerequisite: Exploring Computer aided Drafting or Introduction to Engineering Grades 10, 11 or 12 36 wks. 1.0 credit

This advanced engineering and design course will allow students to work independently to research, design and create engineering projects of their own. The emphasis of this course will be placed on the use of the engineering design process. Careers in engineering, drafting, and industrial design will be explored. The engineering design and product development course will allow students the opportunity to manufacture working prototypes of their product or invention.

ADVANCED ENGINEERING IP CN: IE40

Grade 11 or 12 36 wks. 1.0 credit

Prerequisite: Exploring Computer Aided Drafting, Introduction to Engineering, Engineering Design and Product Development

This course is a continuation of the CAD Engineering class which will provide students an

opportunity to complete their own problem solving activities. Students will research, design, and test prototypes using the engineering design loop. Students will develop skills in math science, technology, engineering, and communication while taking this course.

ARCHITECTURAL PATHWAY



IP CN: IA30

Grade 11 or 12 36 Wks. 1.0 Credit All Levels

Prerequisite: Exploring Computer Aided Drafting

This course is a computer aided design course that is recommended for students who have an interest in civil engineering, or architecture. This course teaches various aspects of civil, commercial and residential architectural design. Site plans, elevations, construction details, floor plans and 3d models will be produced.

ADVANCED ARCHITECTURE IP CN: IA40

Grade 12 36 Wks. 1.0 Credit All Levels

Prerequisite: Exploring Computer Aided Drafting, Architectural Design

This course is a continuation of the Architectural Design class which will provide students an opportunity to complete their own problem solving activities. Students will research, design, and complete architectural models using the engineering design loop. Students will develop skills in math, science, technology, engineering, and communication while taking this course.

MANUFACTURING PATHWAY



MATERIALS MANUFACTURING

ΙP

CN: IME3

Grades 9-12

36 Wks.

1.0 Credit

This course is designed to introduce students to different types of materials, manipulation, forming and testing and manufacturing concepts. Using the wood and metals facility students will be exposed to machining, cutting, welding, CNC machining and finishing of wood and metal projects. This course is intended for students who are looking at a future in manufacturing or engineering where the understanding of the use and application of materials is important.

DESIGN AND MANUFACTURING IP CN: IDW1

Grades 9-12 36 Wks. 1.0 Credit

This course is designed to give students the opportunity to use AutoCAD software to design a project(s) to be produced in the Manufacturing Lab. The students will spend the first semester designing and researching their projects to create a set of working drawings using Inventor and AutoCAD software. The students will research materials, hardware, etc. in which to construct their projects, along with the cost to produce it. The second semester is in the manufacturing lab where they will use their drawings to produce the project(s). Students will learn the safe and efficient use of the tools and machines, including the CNC router, in the manufacturing lab. Students are required to provide a pair of safety glasses, with clear lenses, for this course and pay for the materials used to produce projects.

ADVANCED MATERIALS MANUFACTURING CN: IME4

Grade 10, 11 or 12 36 wks. 1.0 credit

Prerequisites: Materials Engineering

This course is designed to test the ability levels of each student in the modern manufacturing environment. Using the wood and metals facility students will apply various manufacturing techniques and concepts to manufacture projects in wood and/or metal. This course is intended for students who are looking at a future in manufacturing or engineering where the understanding of the use and application of materials is important. Students in this class will design and manufacture more advanced projects in wood or metal.

APPLIED ENGINEERING AND MANUFACTURING CN: IE45

Grade 11 or 12 36 wks. 1.0 credit

Prerequisites: Materials Engineering

Students will participate in an action-oriented classroom which will feature Illustrated lecture, discussion, demonstration, hands-on activities and presentations, hands-on activities and presentations, and project presentations. The emphasis will be on doing rather than talking about technology, mathematics,

Science, and art. This will be treated as an honors level course. Examples of projects completed in this class are: Mold production projects, 3D printing, robot programming, and transportation projects.

STAND ALONE CLASSES OR CAN BE TIED INTO A PATHWAY

HOME MAINTENANCE AND REPAIR CN: IK10

Grades 9-12 18 wks.

0.5 credit

All Levels

A study of repairs that are commonly undertaken by the average

homeowner. Hands-on learning experiences may include drywall, ceramic tile, house wiring, plumbing repairs, basic automotive maintenance, small engine repairs, woodworking, and cabinetry.

GAME DEVELOPMENT IP CN: IG10

Grades 9-12 18 wks. 0.5 credit

Game Development is a game design Course and much more. Technical skills such as programming, graphic design, animation, testing and debugging will be taught in this course. Skills taught will be transferable to other STEM (Science, Technology, Engineering, & Math) career paths. Game Development will begin with drag-n-drop programming and advance to more complex projects that involve writing code. The engineering problem solving cycle plays a large role with integrating physics and math principles into game functionality. After you have learned how to develop and program a game, you will investigate how to market an original game idea.

PRE-APPRENTICESHIP IP, VB CN: IP30

Grade 10, 11 or 12 36 wks.

1.0 credit

This course gives students an overview of hightech modern manufacturing, consisting of an online nationally recognized curriculum and required visits (likely nine through the year) to Penn United for hands-on practical experience. Industry-recognized certifications are available to students successfully completing the course. Either students interested in manufacturing employment following high school or students planning college majors in engineering, drafting or CNC programming should consider this course.

NOTES

WORLD LANGUAGE

INSTRUCTIONAL MODE KEY

IP: In-person VB: Virtual Blended

The mission of the World Language Department at Butler Area School District is to promote linguistic and cultural literacy while cultivating a life-long desire and appreciation for languages and cultures.

We believe that all students can learn a new language and that a global mindset is an asset and critical in today's society. The study of new languages can be incredibly beneficial and rewarding, and it can improve general intelligence, decision-making skills, and increase empathy, among others.

FRENCH I IP, VB CN: LF10

Grades 9-12 36 wks. 1.0 credit Average/Above Levels

This course develops communication skills in French by using basic phrases and familiarization with pronunciation. Students will participate in simple conversations. Reading and writing of the French language are introduced. Culture of the French-speaking world is illustrated through songs, films, and other audio-visual materials.

FRENCH II IP, VB CN: LF20

Grades 9-12 36 wks. 1.0 credit Average/Above Levels

Prerequisite: French I

This course continues the development of speaking as a tool of communication with the vast French-speaking world. Students will continue to learn to read and write. Cultural aspects will be included as an important part of the course. Songs, films, and other audio-visual materials will be used to promote learning.

HONORS FRENCH III IP, VB CN: LF30

Grade 10, 11, or 12 36 wks. 1.0 credit

Honors Levels

Prerequisite: French II

This course will further develop proficiency in understanding, speaking, reading, and writing through an emphasis on reading short stories, writing essays and making oral presentations in French. This course will prepare students for the demands of upper level study in French.

HONORS FRENCH IV IP CN: LF40 CHS: Aligned w/BC3 Agreement w/Pitt pending

Grade 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: French III

This course focuses on the literature and perspectives of Francophone cultures. Students are also introduced to advanced grammar concepts with an emphasis on listening

comprehension, speaking, writing, and reading skills. In-class discussion will be stressed.

A.P. FRENCH V IP CN: LF50 CHS: Aligned w/BC3 Agreement w/Pitt pending

Grade 12 36 wks. 1.0 credit
Advanced Placement

Prerequisite: French IV & Teacher Recommendation

This course continues to focus on the literature and perspectives of Francophone cultures. Students continue to master advanced grammar concepts with an emphasis on listening comprehension, speaking, writing, and reading skills. In-class discussion continues to be stressed. This course is designed to prepare students for the Advanced Placement examination given in the spring.

GERMAN I IP, VB CN: LG10

Grades 9-12 36 wks. 1.0 credit
Average/Above Levels

This course focuses on the German language through conversation, grammar, and vocabulary, with a recognition of the significant contributions of the German people to Western civilization. Reading, writing, listening, and speaking of the German language are also introduced.

GERMAN II IP, VB CN: LG20

Grades 9-12 36 wks. 1.0 credit Average/Above Levels

Prerequisite: German I

This class continues the grammar

introduced in German I with more intensive reading and writing emphasized. The culture is further examined through music, stories, and films. Speaking becomes a major goal of this course.

HONORS GERMAN III IP CN: LG30

Grade 10, 11, or 12 36 wks. 1.0 credit Honors Levels

Prerequisite: German II

This course is designed to continue the skills of listening, speaking, reading, and writing in the German language. The main goal of German III is communication in the target language.

HONORS GERMAN IV IP CN: LG40

Grade 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: German III

This course is designed to continue the skills of listening, speaking, reading, and writing in the German language. The main goal of German IV is to prepare students for advanced German studies.

A.P. GERMAN V IP CN: LG50 CHS: Aligned w/BC3 Agreement w/Pitt pending

Grade 12 36 wks. 1.0 credit Advanced Placement

Prerequisite: German IV & Teacher Recommendation

Students will continue to develop their language skills as communication in German is emphasized. The course will also review previously learned grammar and structures, and time will be given to the reading of texts and literature in the target language.

IATIN I IP, VB CN: LL10

Grades 9-12 36 wks. 1.0 credit
Average/Above Levels

Students will explore the Latin language at a novice level by traveling back in time to Pompeii. We will read, write, and speak in Latin. We will also expand our English vocabulary through the study of Latin roots, and dive deep in the history and culture of the Romans, including Roman families, homes, theater, gladiators and more.

IP, VB CN: LL20

Grades 9-12 36 wks. 1.0 credit Average/Above Levels

Prerequisite: Latin I

Our second course takes us to Roman Britain and Egypt, through the reading of more complex Latin passages which will further develop Latin and English vocabulary and grammar skills. Explore the influence of the Latin language in fields such as architecture, medicine, government, and more.

HONORS LATIN III IP CN: LL30

Grade 10, 11, or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Latin II

In our third year, we will learn about the lives of the Roman soldiers fighting in Roman Britain. With our more complex knowledge of the Latin language, we will head to Rome and read about the political intrigues of Rome during the reign of the emperor Domitian. We will also continue to build our connections to English through Latin and Greek roots.

HONORS LATIN IV IP CN: LL40

Grade 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Latin III

Students will read authentic Latin texts. An anthology of Latin writings will expand student knowledge and appreciation of Greek and Roman history and myth. The primary focus of this course is to enable students to demonstrate an ability to ready, analyze, and critique authentic Latin literature. Students will be prepared for success in the Advanced Placement Latin course.

A.P. LATIN V IP CN: LL50

Grade 12 36 wks. 1.0 credit
Advanced Placement

Prerequisite: Latin IV and Teacher Recommendation

The AP Latin course focuses on continued Latin language acquisition, with the inclusion of textual analysis and contextualization skills. The course centers around selections from two influential works of Latin literature: Vergil's Aeneid and Pliny the Younger's Letters. Additional authors are also included in the required Course Project.

SPANISH I IP, VB CN: LS10

Grades 9-12 36 wks. 1.0 credit Average/Above Levels

Spanish I presents an introduction to important vocabulary for everyday life and the basics of Spanish grammar and pronunciation through reading, writing, listening, and speaking. Personalized activities and cultural enlightenment lead students to relate Spanish to their own lives.

SPANISH II IP, VB CN: LS20

Grades 9-12 36 wks. 1.0 credit Average/Above Levels Prerequisite: Spanish I

Spanish II extends the opportunity to further develop basic reading, writing, listening and speaking skills while discovering more words and expressions for different life scenarios. Various cultural topics encourage the formation of positive attitudes toward the language and its people.

HONORS SPANISH III IP, VB CN: LS30

Grade 10, 11, or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Spanish II

Students will build upon their Spanish skills, improve fluency, and explore new cultures. Students will read to learn vocabulary and grammar, write creative stories and dialogues,

and practice listening to spoken Spanish. Speaking activities improve real conversations. We focus on active participation, teamwork, and learning about different cultures.

IP, VB
CN: LS40
CHS: Aligned w/BC3

Grade 11 or 12 36 wks. 1.0 credit Honors Level Prerequisite: Spanish III

Students will strengthen their skills and work towards fluency. Students will read authentic texts, write creative pieces, listen to different accents, and practice real world conversations. We'll connect language learning to culture and encourage active participation and teamwork in real-world situations.

A.P. SPANISH V IP CN: LS50 CHS: Aligned w/BC3

Grade 12 36 wks. 1.0 credit Advanced Placement Prerequisite: Spanish IV

AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations.

NOTES

TEST PREPARATION

INSTRUCTIONAL MODE KEY

IP: In-person
VB: Virtual Blended
VL: Virtual Live

VIRTUAL TUTOR ACT VB CN: TPA30

Grade 11 or 12 18 wks. 0.5 credit

This course provides students with the opportunity to prepare to successfully complete the ACT college-entrance exam. Practice tests diagnose and target areas of opportunity, and students are prescribed individual study paths. The learning experience includes video-based instruction by highly qualified teachers, interactive assignments, and frequent assessment opportunities to track progress.

VIRTUAL TUTOR SAT VB CN: TPS30

The test preparation course effectively prepares students for all sections of the SAT exam. Course content is broken into strands, allowing students to focus on each subject extensively before moving on to the next area of study. Within each strand, a diagnostic pretest identifies students' strengths and weaknesses and tailors a personalized study plan for each test-taker.

BUTLER COUNTY AREA VOCATIONAL-TECHNICAL SCHOOL

Butler County Area Vocational-Technical School offers programming in technical and mechanical, professional, service, and production occupations to eligible high school students residing in the Butler Area School District. Students who complete 9th, 10th or 11th grade may apply for admission to BCAVTS programs by submitting the BCAVTS Application for Admissions to their academic guidance counselor. Please see www.butlertec.us, **Guidance Office and New Student Admission** Application for complete admission details. Accepted students will spend a two-hour portion of their day involved in career and technical education at BCAVTS and the remainder of the day completing academic requirements at Butler Senior High School. The desire to learn, a cooperative work attitude, and the ability to profit from technical instruction are qualities needed to be a successful student in any of the programs. As a student at BCAVTS, the technical course work which includes cutting edge, rigorous and relevant curriculum will prepare students of all ability levels to enter an occupation, a post-secondary school, or the military. Each student's pathway to success is unique. BCAVTS can help you explore that pathway. Students considering enrollment at BCAVTS need to consider a number of personal factors including: career interests, academic abilities, social maturity, and specific career aptitudes.

Earning College Credit at BCAVTS: Students can earn advanced placement at various post-secondary institutions by taking advantage of *local articulation agreements* established by BCAVTS or by accessing *statewide articulation* credits for eligible students.

Local Articulation Agreements have been established with college and career schools throughout the region. Qualifying students have the opportunity to receive credits at specific institutions for learning achievements accomplished at BCAVTS. The number of credits awarded and specific requirements vary for each institution. Call the BCAVTS Guidance Office for the latest articulation information at 724-282-0735. See page 125-128 for details.

Statewide Articulation Agreements BCAVTS strives to prepare students for college and careers in a diverse, high-performing workforce. Beginning in the 2009-2010 school year, BCAVTS courses have become program of study (POS) courses which combine relevant, coherent, and rigorous technical education with aligned challenging academic standards. These career and technical programs of study include a statewide articulation agreement partnership between secondary schools and post-secondary institutions throughout Pennsylvania. To view current statewide articulation agreements, go to the equivalency search results for PA Bureau of Career and Technical Education at the website www.collegetransfer.net.

Numerous *certification* opportunities exist for BCAVTS students. A certification is a business and/or industry documentation verifying skills and knowledge in a specific area of study. These certifications may become increasingly important for advancement within a career area. NOCTI (National Occupational Competency Testing Institute) certification is offered to all students but Machine Technology students. Machine Technology students are offered NIMS (National Institute of Metalworking Skills) Certification. Many more *certifications* and *accreditations* are displayed in each Course Description in the next few pages.

Qualifying second and third year students may wish to consider participating in the **Cooperative Education** program. The program can provide a student the opportunity to be employed with his/her area of vocational-technical study and earn wages while under the supervision of the BCAVTS Cooperative Education Coordinator. All BCAVTS courses are eligible for participation, but students need to meet specific requirements, apply, and be accepted into the program. Cooperative Education guidelines established by the PA Department of Education and approved by the local area school districts will be followed.

BCAVTS has a school counselor who works cooperatively with Senior High school counselors in

order to meet the needs of our students. Questions about specific programs of study at BCAVTS can be referred to the Butler Senior High School counselors or to the Guidance Office at BCAVTS (724) 282-0735

AIR CONDITIONING/ HEATING/ELECTRICAL CN: VAC21 (3 pds) VAC22

Grades 10, 11, or 12 36 wks.

3.0 credit

Air Conditioning/Heating/Electrical is a three-year program where students will be introduced to careers centering on the installation, maintenance and repair of heating, ventilation, and air conditioning equipment. The student will also gain enough residential and commercial electrical knowledge to choose entrance to electrical/electrical skilled careers. Skills learned in the classroom will include working with compressors, relays, and thermostats, recovering and recycling refrigerants, learning related plumbing and electrical skills, fabricating sheet metal, following electrical and building codes, and installing, servicing, and maintaining residential or commercial heating, refrigeration, ventilation, and air conditioning systems.

Certifications offered at BCAVTS include: Industry Competency Exam/Air Conditioning & Refrigeration Institute; Industry Competency Exam-Light Commercial Air Conditioning and Heating; Industry Competency Exam-Residential Air Conditioning and Heating; EPA 608 Refrigerant Recovery/ESCO Group; Student Outcome Assessment/HVAC Excellence; and S/P2 Construction/S/P2. Additional details include ESCO 609 Automotive; Mainstream Engineering Preventive Maintenance; Mainstream Engineering 410 A Safety Certification; CSST Certification; and S/P2 Soft Skills.

AUTO TECH CN: VAT21 (3 pds) VAT22

Grades 10, 11, or 12 36 wks.

3.0 credit

Automotive Technology is a three-year program

where students will be introduced to the highly technical careers centering on the repair of automobiles and light trucks. Rigorous evaluation by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE) has resulted in program certification that assures employers standards of excellence in the areas of instruction, facilities, and equipment are met by BCAVTS. Skill areas include maintenance and light repair of brakes, heating, ventilation and air conditioning systems, automatic transmissions, and electrical/electronic systems for the first year and engine performance, engine repair, suspension and steering, and manual drive train/clutches for the second year of the program.

The following industry recognized certifications are offered at BCAVTS: AYES Certificate/Automotive Youth Educational Systems; Section 609 Cert for Refrigerant Recycling and Recovery/Mobile Air Conditioning Society Worldwide; Automotive Service Excellence Cert (ASE)/Natl Automotive Technicians Education Excellence; Certified Emissions Inspector/PA Department of Transportation; Certified Safety Inspector, Cat I/PA Department of Transportation; Certified Safety Inspector, Cat II/PA Department of Transportation; Certified Safety Inspector, Cat III/PA Department of Transportation; S/P2-Automotive/S/P2; S/P2 Safety and Pollution Prevention/S/P2; Meter Certification/Snap-On; and Motor Oil Certification/Valvoline. Additional details include A1-A8 & G1 under Automotive Service Excellence (ASE), Subaru Level 1 Technician, New Ford Technician Service Training, S/P2 Soft Skills, S/P2 Supervisor's Course.

The Automotive Service Excellence (ASE) Education Foundation, National Coalition of Certification (NC3), and PennDOT accreditations are offered in this program at BCAVTS.

BUILDING CONSTRUCTION CN: VBC21 (3 pds) VBC22

Grades 10, 11, or 12

36 wks.

3.0 credit

Building Construction is a three-year program

where students will be introduced to careers in the residential and commercial building industry. Each student will receive training in carpentry, electrical, masonry, Roofing, interior finishes, and plumbing. Students will learn about building codes, blueprint reading and following proper safety procedures. The students in Building Construction will develop their skills and understanding through small community projects and building skill trainers as part of the curriculum.

Building Construction students are also eligible for the following certifications: Forklift
Operator/National Safety Council; S/P2 Soft Skills; and S/P2-Construction/S/P2. Additional and details to industry recognized certifications include: Power Actuated Fasteners Certification, JLG AWPT in Arial Work Platforms, All Terrain Telehandler and Telehandler Rough Terrain Truck. The Butler County AVTS Building Construction program also offers an articulation with the KML Carpenters Apprenticeship and Training Program.

CARPENTRY CN: VCP21 (3 pds) VCP22

Grades 10, 11, or 12 36 wks.

3.0 credit

Carpentry is a three-year program where students will be introduced to careers for general carpenters, wood workers, and fine cabinetmakers. Classroom learning will include measuring, use of power tools, use of hand tools, types of fasteners, types of adhesives, rough carpentry skills, cabinetmaking skills, blueprint reading skills, programming/operation of the CNC (computerized numerical control) lathe, router, lasers, and moving gantry router. The Butler County AVTS Carpentry program also offers and articulation with the KML Carpenters Apprenticeship and Training Program. The Forklift Operator/National Safety Council, S/P2 Construction/S/P2 certifications are available as well as accreditations offered through the S/P2 Soft Skills.

COLLISION REPAIR CN: VAB21 (3 pds) VAB22

Grades 10, 11, or 12 36 wks. 3.0 credit

Collision Repair is a three-year program where students will be introduced to careers centering on the replacement and repair of automobile and light truck bodies and body parts. Modern technologies that include the use of PPG invirobase water-based paint, a touch-mix computerized paint mixing system, resistance welder, aluminum welder, paint gun cleaner, paint recycling system, fresh air breathing system for the paint booth, hydraulic lift, and a cost estimating area will be used daily by students. Instruction utilizes the Inter-Industry Conference on Auto Collision Repair (I-CAR) curriculum presented through theory and application/practical skills with assessment of both portions reflected in each student's grade. Certifications offered at BCAVTS include: ALLVIS (laser frame measuring system); Aluminum Welding; Mig Welding; EPA Refrigerant Recovery (auto a/c); LORD Fusor Bumper Repair; SP/2 Soft Skills, and S/P2 Supervisor's Course. The I-Car accreditation is offered in this program. Additional certifications include: Bolted-On Exterior Panels-Part I/I-CAR; Hazardous Material Storage and Disposal/I-CAR; I-CAR Certification(s)/I-CAR; Intro to Collision Repair Process Overview/I-CAR; Intro to Refinishing and Corrosion Protection-Part 1/I-CAR; Intro to Refinishing and Corrosion Protection-Part 2/I-CAR; Intro to Safety Systems/I-CAR; Intro to Tools, Equipment and Attachment Methods-Part 2/I-CAR; Intro to Tools, Equipment and Attachment Methods-Part 1/I-CAR; Intro to Vehicle Parts Terminology-Part 1/I-CAR; Refinishing Equipment/I-CAR; Removing and Installing Exterior Trim, Pinstripes and Decals/I-CAR; Removing and Installing Hardware Interior Trim/I-CAR; Surface Preparation and Masking/I-CAR; S/P2 Automotive/S/P2; and S/P2 Safety and Pollution Prevention/S/P2.

and SECURITY CN: VCN21(3 pds)

VCN22

Grades 10, 11 or 12

36 wks.

3.0 credit

Computer Networking and Security is a three-year program where students will be introduced to the creative technologies related to supporting and networking computer systems in both theory and direct application. The fundamentals of media, topologies, protocols, standards, network implementation, and network support will be presented. Problem solving and analytical skill development are taught and supported within the classroom structure. As an authorized Pearson/VUE Test Center, students are eligible to complete advanced industry certifications right in their classroom.

Certifications offered at BCAVTS include: CompTIA (A+, Network+, IT Fundamentals+, Security+, Server+); Network Pro/Test Out; PC Pro/Test Out; Security Pro/Test Out; OSHA CareerSafe/(OSHA); and S/P2 Soft Skills.

COSMETOLOGY CN: VCM21 (3 pds) VCM22

Grades 10, 11, or 12 36 wks.

6 wks. 3.0 credit

Cosmetology is a three-year program where students will be introduced to the skills surrounding careers in the beauty industry. Competence in hair care, skin care, and nail care are obtained through learning techniques and practice on mannequins. Advanced practice on classmates and then clients will take place in the school's salon, Salon 7. All hours earned during daily class and evening class are applied to the 1250 hours of instruction needed for the PA State Board of Cosmetology State Board Certification test. State licensing can be pursued once the required number of hours is obtained.

Certifications offered at BCAVTS include: Cosmetologist/PA Department of State, State Board of Cosmetology; S/P2-Cosmetology/S/P2; Nova Lash Eye Lash Extension Certification; and S/P2 Soft Skills.

PREREQUISITE(S): Students must purchase uniforms, equipment, and supplies as prescribed by the school

CULINARY ARTS CN: VCA21 (3 pds) VCA22

Grades 10, 11, or 12 36 wks. 3.0 credit

Culinary Arts is a three-year program where students will work in areas such as dining room operations, cooking, bakeshop, and pastry making. Students will be expected to work individually, in groups, and in a professional kitchen brigade preparing food for the school's restaurant, The Eatery, to experience a wide range of learning experiences in keeping with industry expectations. The food service industry is one of the nation's largest employers, and job opportunities abound for preparation cooks, sous chefs, executive chefs, bakers, pastry chefs, and front of the house positions including wait staff, managers, and food and beverage directors.

Students have the opportunity to earn
ServSafe/Manager Food Safety
Certification/National Restaurant Association;
ServSafe Food Handler Certification/ServSafe; S/P2
Culinary/S/P2; S/P2 Culinary-Food Safety; and S/P2
Soft Skills certifications.

Additional details to certifications include: National Restaurant Association (On Cooking and On Baking) and American Culinary Federation (Intro to Hospitality-Food Service Industry; Intro to Hospitality-Baking & Pastry; Business & Math Skills; Food Prep; Garde Manager; Basic Baking; Bakery Planning & Preparation; Advanced Baking & Pastry; Basic Dining Room Service; Menu Planning; Purchasing & Receiving; Nutrition; Human Relations Management; and Environmental Sustainability).

PREREQUISITE(S): Students must purchase uniforms, equipment, and supplies as prescribed by the school.

GRAPHIC DESIGN CN: VGD21 (3 pds) VGD22

Grades 10. 11. or 12

36 wks.

3.0 credit

Graphic Design is a three-year program where students will be introduced to a variety of graphic production and advertising techniques and will utilize design concepts used in a commercial or industrial setting. These skills will prepare students to create an artistic rendering of a client's idea. Learning the production fundamentals of the graphic design industry will include utilization of visual media programs such as Adobe Illustrator, Adobe InDesign and Adobe Photoshop; design and production of screen printing; design, production and use of laser etching and cutting tools; vinyl graphic design and production; digital portfolio photography; individual portfolio design, production, and review; and the use of binding, stitching, and cutting tools used in printing production. Other essential elements of the curriculum include: photography, design, basic animation, typography, embroidery, computer illustration, and electronic photo manipulation. Students are eligible for Adobe Certified Associate (ACA) for Adobe Photoshop CS5 and Adobe Illustrator and S/P2 Soft Skills certifications. Additional industry recognized certifications include: Adobe Certified Associate-Visual Communication Using Adobe Illustrator/Certiport; Adobe Certified Associate-Visual Communication Using Adobe Photoshop/Certiport; Adobe Certified Associate-Graphic Design & Illustration Using Adobe Illustration/Certiport; Adobe Certified Associate-Print & Design Media Publication Using Adobe Indesign/Certiport; and OSHA CareerSafe/(OSHA). Accreditations are offered thought PrintED.

PREREQUISITE(S): Students must purchase a grey hooded sweatshirt, USB drive and supplies as prescribed by the school.

HEALTH ASSISTANT CN: VHA21 (3 pds) VHA22

Grades 10, 11, or 12 36 wks. 3.0 credit

Health Assistant is a three-year program where students will be introduced to the field of health care with an emphasis on direct patient care. Instructional areas will include: anatomy; physiology; medical terminology; infection control; emergency procedures; patient care; and technological advancements in patient care. The expanded overview of the health care field allows students to explore, refine, and choose an area of specialization in health care after field trips, job shadowing experiences, and clinical rotations are taken.

Students who complete the Health Assistant program will have the opportunity to earn the following certifications: American Heart Association/BLS for Healthcare Providers; Heartsaver First Aid/American Heart Association; Medical Assisting Clinical and Clerical/American Medical Certification Association; Patient Care Technician/American Medical Certification Association; Certified Pharmacy Technician (CPhT)/National Healthcareer Association; Personal Care Home Direct Care Staff; Certificate/Pennsylvania Department of Human Services; Billing and Coding Specialist/American Medical Certification Association; and OSHA Occ Safety and Health Admin/(OSHA). Additional details to the certifications include: Department of Health Feeding Assistant; National Restaurant Association Educational Foundation Nutrition; Dean Vaughn Medical Terminology; American Medical Certification Association (Nursing Assistant and Medical Administrative Assistant); and S/P2 Soft Skills.

Students also have the opportunity to earn college credits though Butler County Community College. Accreditations are available through the American Medical Certification Association and National Healthcare Association.

HEAVY EQUIPMENT CN: VHE21(3 pds) VHE22

Grades 10, 11, or 12 36 wks. 3.0 credit

Heavy Equipment Repair is a three-year program where students will be introduced to maintenance and repair of medium/heavy duty trucks and construction equipment using state of the art mobile truck lifts and computer diagnostic software. Students will be given the opportunity to study a variety of repair scenarios on equipment, diesel and gasoline engine, transmissions, drivelines, differentials, steering and brake systems, as well as electrical, pneumatic, and hydraulic systems through both in-class learning and hand-on experience.

Students have the opportunity to obtain the following certifications: Section 609 Certification for Refrigerant Recycling and Recovery/Mobile Air Conditioning Society Worldwide; Certified Safety Inspector, Cat I/PA Department of Transportation; Certified Safety Inspector, Cat III/PA Department of Transportation; S/P2 Heavy Duty/S/P2; S/P2 Safety and Pollution Prevention/S/P2.

MACHINE TECHNOLOGY CN: VMT21 (3 pds) VMT22

Grades 10, 11, or 12 36 wks. 3.0 credit

Machine Technology is a three-year program where students will be introduced to the skills used in the precision metalworking industry. Students will be instructed on how to develop a process plan, how to produce and/or repair parts, how parts fit and work together, how to use a variety of metal working equipment, how to program and produce products on the computer numerical controlled (CNC) machines, and how to make accurate quality control inspections. Skills obtained in this area can secure a high-paying career in manufacturing as well as transfer into four-year college engineering degrees. Machine Technology offers ten nationally

recognized credentials through the National Institute for Metalworking Skills (NIMS) as well as up to 15 college credits from the Butler County Community College.

NIMS certifications include: CNC Milling: Programming Setup & Operations/National Institute for Metalworking Skills, Inc; CNC Turning: Programming Setup & Operations/ National Institute for Metalworking Skills, Inc; and Machining Level I (National Institute for Metalworking Skills, Inc, CNC Milling/ National Institute for Metalworking Skills, CNC Turning/ National Institute for Metalworking Skills, Manual Drill Press Operations/ National Institute for Metalworking Skills, Manual Milling/ National Institute for Metalworking Skills, Manual Surface Grinding/National Institute for Metalworking Skills, Manual Turning Between Centers/ National Institute for Metalworking Skills, Manual Turning with Chucking/ National Institute for Metalworking Skills, Measurement, Materials and Safety/ National Institute for Metalworking Skills, Job Planning, Benchwork, Layout/National Institute for Metalworking Skills).

PROTECTIVE SERVICES CN: VPS21 (3 pds) VPS22

Grades 10, 11 or 12 36 wks.

3.0 credit

Protective Services is a three-year program where students will acquire knowledge and skills from the public safety areas of firefighting, emergency medical services, vehicle, rope, and confined space rescue, and law enforcement. Students can expect to receive instruction, participate in practical applications and situational learning experiences; and prepare to test for national, state, and local certifications. Through exploration and physical practice of skills presented in the curriculum, students can refine personal career opportunities and choose a specialization area in public safety. Certifications include: BLS Healthcare Provider/American Heart Association; NIMS IS 100 Series/Emergency Management Institute; NIMS IS

200 Series/Emergency Management Institute; NIMS IS 700 Series/Emergency Management Institute; NIMS IS 800 Series/Emergency Management Institute; EMT/Pennsylvania Department of Health; Certificate of Training-Basic Rigging for Rope Rescue/Pennsylvania State Fire Academy; Certificate of Training-Basic Vehicle Rescue Awareness/ Pennsylvania State Fire Academy; Certificate of Training-Basic Vehicle Rescue Operations/ Pennsylvania State Fire Academy; Certificate of Training-Hazardous Materials First Responder Awareness/ Pennsylvania State Fire Academy; Certificate of Training-PA Essentials of Firefighting/ Pennsylvania State Fire Academy; Certificate of Training-Rope Rescue I/ Pennsylvania State Fire Academy; Certificate of Training-Rope Rescue II/ Pennsylvania State Fire Academy; OSHA Occ Safety and Health Admin/(OSHA) and S/P2 Soft Skills.

SPORTS MEDICINE CN: VSM21 (3 pds) VSM22

Grades 10, 11, or 12

36 wks.

3.0 credit

Sports Medicine is a three-year program that will prepare students with a solid foundation in physical therapy, occupational therapy, and sports medicine. Students will develop skills in prevention, recognition, assessment, management, and rehabilitation of injuries. Students will learn the principles of designing exercise programs for healthy individuals and those who are in a rehabilitation phase after an accident or injury. Students will also learn how to develop proper diets through the essentials of nutrition. Upon successful completion, students will be prepared to assess injuries and illnesses, provide immediate and long-term care, determine the outlook, and design a basic rehabilitation program.

Students also have the opportunity to earn college credits through Butler County Community College, California University of Pennsylvania, Duquesne University, and Waynesburg University.

Certifications offered in this program are as follows: BLS Healthcare Provider (American Heart Association), Heartsaver First Aid (American Heart Association) ACSM Personal Trainer, AMCA Physical Therapy Aide, Concussion Wise-Sport Safety International, Bloodborne and Airborne Pathogens (National Safety Council) and S/P2 Professional Skills Training by Fusion.

WELDING CN: VWD21 (3 pds) VWD22

Grades 10, 11, or 12

36 wks.

3.0 credit

Welding is a three-year program where students will be introduced to the application of technical knowledge and skills in shielded metal, gas tungsten, flux-core, and gas metal arc welding as well as mechanized and manual flame cutting and plasma cutting, along with Carbon Arc Gouging. Students learn safety practices, types and use of electrodes and welding rods, properties of metals, blueprint reading, electrical principals, welding symbols and mechanical drawing, Computer Numerical Control (CNC) programming, use of equipment for testing welds by ultrasonic methods and destruction and harness testing, visual examination of welds, use of manuals and specification charts, use of portable grinders for surface cleaning, positioning and clamping, measurement, shop math, basic fabrication skills and welding standards established by the American Welding Society and The American Petroleum Institute.

Students are eligible for certification from the American Welding Society in mild steel, aluminum, and stainless steel. Certifications offered at BCAVTS include: Certified Welder/American Welding Society; and S/P2 Welding/S/P2. Certifications offered at BCAVTS include Certified Welder/American Welding Society D1.1 SMAW, FCAW GMAW: 1G, 2G, 3G, 4G and Groove without backing. Pipe: SMAW API 1104 & ASME Section VIII., GTAW: ASME Section IX plate to pipe with or without backing., Safety: S/P2 Welding/Safety/Soft

Skills, Oxy/Fuel Safety and Operation card and S/P2 Soft Skills

DIVERSIFIED OCCUPATIONS CN: VD021 (3pds) VD022

Grades 12

36 wks.

3.0 credit

Diversified Occupations is a one-year, senior only class designed specifically for students to obtain transferable job skills across any discipline. While there are 15 other programs of study at BCAVTS, Diversified Occupations allows us to work with students to set up cooperative education placements in fields not offered at BCAVTS or when a program is fully enrolled. For example, we do not offer a program related to dental hygienists, however, we can place a student at a dental office under diversified occupations. Rather than focusing on the specific job skills needed to be a hygienist, the class itself focuses on subjects such as time management, understanding criticism, and budgeting.

Unlike capstone, which is a co-op placement within a program of study we offer at BCAVTS, this class meets weekly on Tuesdays. All other days/shifts should reach at least 20 hours Monday through Friday, while still in accordance with state law. Time not spent at BCAVTS in this program is reserved for completing core coursework for graduation.

Certifications included in this program: S/P2 Training Certification in Human Resources and Soft Skills.

PREREQUISITE(S): Student should have a job prepared or lined up before signing up for this class, consistent transportation to and from work (license preferred), and a strong work ethic.



2020-2021 Certifications & Accreditations

Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
Air Conditioning/ Heating/Electrical Occupations CIP Code: 47.0201	 Industry Competency Exam-Commercial Refrigeration/Air Conditioning & Refrigeration Institute Industry Competency Exam-Light Commercial Air Conditioning and Heating/Air Conditioning & Refrigeration Institute Industry Competency Exam-Residential Air Conditioning and Heating/Air Conditioning & Refrigeration Institute EPA 608 Refrigerant Recovery/ESCO Group Student Outcome Assessment/HVAC Excellence S/P2 Construction/S/P2 	ESCO Group -609 Automotive Mainstream Engineering -410A Safety Certification -Preventive Maintenance CSST Certification	
Automotive Technology CIP Code: 47.0604	 AYES Certificate/Automotive Youth Educational Systems Section 609 Cert for Refrigerant Recycling and Recovery/Mobile Air Conditioning Society Worldwide NC3 Electronics/Electrical Certification/National Coalition of Certification Centers Automotive Service Excellence Cert (ASE)/Natl Automotive Technicians Education Foundation Certified Safety Inspector, Cat I/PA Department of Transportation Certified Safety Inspector, Cat II/PA Department of Transportation Certified Safety Inspector, Cat III/PA Department of Transportation S/P2-Automotive/S/P2 	 A1-A8 & G1 under Automotive Service Excellence (ASE) Subaru Level 1 Technician S/P2 Soft Skills S/P2 Supervisor's Course 	ASE Education Foundation National Coalition of Certification Center (NC3) PennDOT

 S/P2 Automotive Service Pollution Prevention/S/P2 Meter Certification/Snap-On Motor Oil Certification/Valvoline 	
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Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
Building Construction CIP Code: 46.9999	 ◆Fork Lift Operator/National Safety Council ◆NCCER Credentials (Various Trades)/Natl Ctr for Construction Educ & Research (NCCER) ◆S/P2-Construction/S/P2 	 AWPT in Arial Work Platforms All Terrain Telehandler Power Actuated Fasteners Certification S/P2 Soft Skills 	
Carpentry CIP Code: 46.0201	 Fork Lift Operator/National Safety Council NCCER Credentials (Various Trades)/Natl Ctr for Construction Educ & Research (NCCER) S/P2 Construction/S/P2 	•S/P2 Soft Skills	

Collision Repair CIP Code: 47.0603	 Automotive Lighting/I-CAR Bolted-On Exterior Panels-Part 1/I-CAR Bolted-On Exterior Panels-Part 2/I-CAR Hazardous Airborne Pollutant Reducation/I-CAR Hazardous Material Storage and Disposal/I-CAR I-CAR Certification(s)/I-CAR Intro to Collision Repair Process Overview/I-CAR Intro to Mechanical Repair Terms and Vehicle Protection/I-CAR Intro to Refinishing and Corrosion Protection-Part 1/I-CAR Intro to Refinishing and Corrosion Protection-Part 2/I-CAR Intro to Safety Systems/I-CAR Intro to Tools, Equipment and Attachment Methods-Part 2/I-CAR Intro to Tools, Equipment and Attachment Methods-Part 1/I-CAR Intro to Vehicle Parts Terminology-Part 1/I-CAR Refinishing Equipment/I-CAR Removing and Installing Exterior Trim, Pinstrips and Decals/I-CAR Removing and Installing Hardware Interior Trim/I-CAR Surface Preparation and Masking/I-CAR Vehicle Construction Material Types/I-CAR Section 609 Certification for Refrigeration Recycling and Recovery/National Institute for Automotive Service Excellence S/P2 Automotive Service Safety/S/P2 S/P2 Automotive Service Pollution Prevention/S/P2 S/P2 Collision Repair & Refinish Safety/S/P2 	 ALLVIS (Laser frame measuring system) Aluminum Welding Mig Welding EPA Refrigerant Recovery (auto a/c) LORD Fusor® Bumper Repair S/P2 Soft Skills S/P2 Supervisor's Course 	●I-CAR
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Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
Security CIP Code: 11.0901	 A+/Computer Technology Industry Association IT Fundamentals+/Computer Technology Industry Association Network+/Computing Technology Industry Association Security+/Computing Technology Industry Association Network Pro/Test Out PC Pro/Test Out Security Pro/Test Out 	●Server+ ●S/P2 Soft Skills	
Cosmetology *PA Cosmetology State Board Licensure CIP Code: 12.0401	 Cosmetologist/PA Dept of State, State Board of Cosmetology S/P2-Cosmetology/S/P2 	●Academy Pro -Hair Extensions -Air Brush Makeup ●S/P2 Soft Skills	

Culinary Arts *Retail Food Facility License *Certified Culinarian (CC)/American Culinary Federation •Certified Fundamental Cook (CFC)/American Culinary Federation •ServSafe/Manager Food Safety Certification/National Restaurant Association •ServSafe Food Handler Certification/ServSafe •S/P2 Culinary/S/P2 •National Restaurant Association -On Cooking -On Baking •American Culinary Federation -Intro to Hospitality-Food Service Industry -Intro to Hospitality-Baking & Pastry -Business & Math Skills -Food Prep	Culinary Federation
-Garde Manager -Basic Baking -Bakery Planning & Preparation -Advanced Baking & Pastry -Basic Dining Room Service -Menu Planning -Purchasing & Receiving -Nutrition -Human Relations Management -Environmental Sustainability S/P2 Culinary-Food Safety S/P2 Soft Skills	

Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
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Graphic Design CIP Code: 50.0402	 Adobe Certified Associate-Visual Communication Using Adobe Illustrator/Certiport Adobe Certified Associate-Visual Communication Using Adobe Photoshop/Certiport Adobe Certified Associate-Graphic Design & Illustration Using Adobe Illustration/Certiport Adobe Certified Associate-Print & Design Media Publication Using Adobe Indesign/Certiport 	Adobe Certified Associate (ACA) for Adobe Photoshop CS5 and Adobe Illustrator S/P2 Soft Skills	
Health Assistant/Health Occupations CIP Code: 51.0899	 BLS Healthcare Provider/American Heart Association Heartsaver First Aid/American Heart Association Medical Assisting Clinical and Clerical/American Medical Certification Association Patient Care Technician/American Medical Certification Association Certified Clinical Medical Assistant (CCMA)/National Healthcareer Association Certified EKG/ECG Technician (CET)/National Healthcareer Association Personal Care Home Direct Care Staff Certificate/Pennsylvania Department of Human Services Billing and Coding Specialist/American Medical Certification Association Technician (CPhT)/National Healthcareer Association) 	 Department of Health Feeding Assistant National Restaurant Association Educational Foundation -Nutrition Dean Vaughn -Medical Terminology American Medical Certification Association -Nursing Assistant -Medical Administrative Assistant S/P2 Soft Skills 	 American Medical Certification Association National Healthcareer Association

Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
	AYES Certificate/Automotive Youth Educational Systems	●ASE Entry-Level Tests	
CIP Code: 47.0613	Section 609 Certification for Refrigerant Recycling and	MEDIUM/HEAVY TRUCK	

	Recovery/Mobile Air Conditioning Society Worldwide • Automotive Service Excellence Certification (ASE)/Natl Automotive Technicians Education Foundation • Certified Safety Inspector, Cat I/PA Department of Transportation • Certified Safety Inspector, Cat III/PA Department of Transportation • S/P2 Heavy Duty/S/P2 • S/P2 Automotive Service Pollution Prevention/S/P2	 Brakes Diesel Engines Electrical/Electronic Systems Suspension & Steering Basic Commercial Truck Tire Service Forklift Operator Meter Certification/Snap-On S/P2 Soft Skills 	
Machine Technology		•S/P2 Soft Skills	NIMS (National Institute
CIP Code: 48.0501	 Institute for Metalworking Skills, Inc NIMS CNC Turning: Programming Setup & Operations/ National Institute for Metalworking Skills, Inc NIMS Machining Level I/ National Institute for Metalworking Skills, Inc NIMS Machining Level I CNC Milling/ National Institute for Metalworking Skills, Inc NIMS Machining Level I CNC Turning/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Manual Drill Press Operations/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Manual Milling/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Manual Surface Grinding/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Manual Turning Between Centers/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Manual Turning with Chucking/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Measurement, Materials and Safety/ National Institute for Metalworking Skills, Inc NIMS Machining Level I Planning, Benchwork, Layout/ National Institute for Metalworking Skills, Inc. 		of Metalworking Skills)

Program	Certifications Industry Recognized/Providers	Certifications Additional and/or Details to Industry Recognized/Providers	Accreditations
Protective Services	BLS Healthcare Provider/American Heart Association	●S/P2 Soft Skills	
	NIMS IS 100 Series/Emergency Management Institute		
CIP Code: 43.9999	 NIMS IS 200 Series/Emergency Management Institute 		
	NIMS IS 700 Series/Emergency Management Institute		
	NIMS IS 800 Series/Emergency Management Institute		
	EMT/Pennsylvania Department of Health		
	Certificate of Training-Basic Rigging for Rope		
	Rescue/Pennsylvania State Fire Academy		
	Certificate of Training-Basic Vehicle Rescue Awareness/		
	Pennsylvania State Fire Academy		
	Certificate of Training-Basic Vehicle Rescue Operations/		
	Pennsylvania State Fire Academy		
	 Certificate of Training-Hazardous Materials First Responder 		
	Awareness/ Pennsylvania State Fire Academy		
	Certificate of Training-PA Essentials of Firefighting/		
	Pennsylvania State Fire Academy		
	 Certificate of Training-Rope Rescue I/ Pennsylvania State Fire 		
	Academy		
	Certificate of Training-Rope Rescue II/ Pennsylvania State Fire		
	Academy		
	OSHA Occ Safety and Health Admin/(OSHA)		
Sports Medicine	●CPR and AED/National Safety Council	ACSM Personal Trainer	
	●First Aid/National Safety Council	● AMCA Physical Therapy Aide	
CIP Code: 51.2604	,	●CDC-Heads Up Concussion Training	
		●S/P2 Soft Skills	

CIP Code: 48 0508	 Certified Welder/American Welding Society Level I-Entry Welder/American Welding Society Level II-Advanced Welder/American Welding Society S/P2 Welding/S/P2 	◆ASME (American Society of Mechanical Engineers) ◆D1.1 (Level I) ◆FCAW Process ◆SMAW Process ◆ASME PLATE ◆D1.5 Bridge (Level II) ◆FCAW Process ◆SMAW Process ◆SMAW Process ◆Shaw Process ◆ASME PIPE (Level II/III) ◆Schedule 80 (Uphill) ◆API (American Petroleum Institute) 1104 Schedule 40 (Advanced) ◆S/P2 Soft Skills	
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Butler County Area Vocational-Technical School Articulation Agreements Approved by the Joint Operating Committee

Institution	Butler County AVTS Program	Credits Received
Butler County Community College	Advertising Design	Up to 12 credits
P.O. Box 1203	Computer Networking	Up to10 credits
Butler, PA 16001	Cosmetology	Up to 15 credits
724-287-8711	■Culinary Arts	Up to 5 credits
	■Graphic Arts	Up to 12 credits
	Health Assistant/Occupations	Up to 10 credits
	■HVAC	Up to 9 credits
	■Machine Technology	Up to 15 credits
	■Protective Services	Up to 15 credits
	■NOCTI: - 6 technology elective credits will	Up to 6 credits

	be awarded for the successful completion of NOCTI skill and written exams	
Career Training Academy 950 Fifth Ave. New Kensington, PA 15068 724-337-1000 www.careerta.edu	•Health Assistant	Up to 15.5 credits
Douglas Education Center 130 Seventh Street Monessen, PA 15062 724-684-3684 or 1-800-413-6013	CosmetologyAdvertising DesignGraphic Arts	Up to 18 creditsUp to 9 creditsUp to 9 credits
Empire Beauty Academy 2394 Moutainview Dr. West Mifflin, PA 15122 1-412-653-2870 www.empire.edu	■Cosmetology	Earn Cosmetology State Board Hours
Erie Institute of Technology 940 Millcreek Mall Erie, PA 16565 1-814-868-9900	■Computer Networking/ Telecommunications	Up to 4 credits

Fountain of Youth Academy of Cosmetology 108 Scharberry Lane Mars, PA 16046 724-624-3691	- Cosmetology	Earn Cosmetology State Board Hours
New Castle School of Trades 4164 US 422 Pulaski, PA 16143	■Machine Technology	Earn up to 1750 hours
Ohio Technical College 1374 E 51 st Street Cleveland, OH 44103 216-704-8868 www.ohiotech.edu Christine Granchie	■Automotive Technology ■Collision Repair ■Heavy Equipment	 ASE/NATEF Certification Assistance Advanced Recognition for Automotive/ Collision Repair/Diesel Modules Continuing ASE Certification Preparation Opportunity to Continue Education in NATEF Accredited Programs w/ Reduced Cost
Pittsburgh Technical College 1111 McKee Rd. Oakdale, PA 15071 1-412-809-5100	 Advertising Design Computer Networking/ Telecommunications Graphic Arts Health Assistant 	Up to 5 creditsUp to 7 creditsUp to 8 creditsUp to 9 credits
Rosedale Technical Institute 215 Beecham Dr., Suite 2 Pittsburgh, PA 15205 1-412-521-6200	Automotive TechnologyDiesel TechnologyHVACWelding	Up to 9 creditsUp to 9.5 creditsUp to 13 creditsUp to 3.5 credits

Triangle Tech, Inc.	Building Construction	TBD
1940 Perrysville Ave.	Carpentry	4.5 semester credits
Pittsburgh, PA 15214-9901	•HVAC	12.5 semester credits
1-412-359-1000	■Welding	1006 hours/18 credits
Universal Technical Institute	-Automotive Technology	TBD
601 Regency Drive	■Collision Repair	ТВО
Glendale Heights, IL 60139		
1-630-893-2651		
University of Northwestern Ohio	■Automotive Technology	■ Up to 12 credits
1441 N. Cable Rd.	Air Conditioning/Heating	Up to 6 credits
Lima, OH 45805		
419-227-3141		

Informal Agreements

Institution	Butler County AVTS Program
Community College of Allegheny County 808 Ridge Ave. Pittsburgh, PA 15212 412-237-2511	■Air Conditioning/Heating
Pennsylvania College of Technology One College Drive Williamsport, PA 17701 1-800-367-9222	Air Conditioning/HeatingCarpentryHeavy Equipment Repair

NCAA FRESHMAN ATHLETIC ELIGIBILITY STANDARDS

For further information concerning eligibility, please contact your high school guidance counselor, the Butler Athletic Department, or reference your Athletic Handbook.

Important Telephone Numbers:

NCAA

Eligibility Center 877-622-2321

Online Registration: www.eligibilitycenter.org