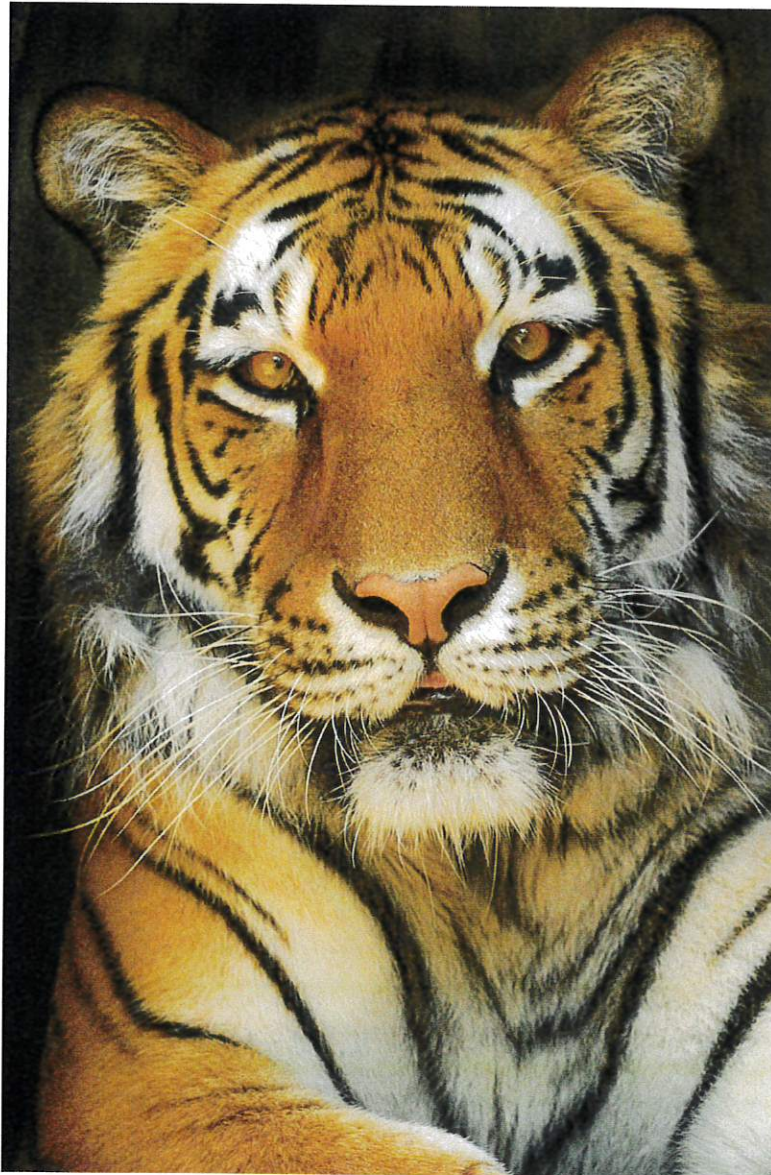


# Beaver Falls High School



## Scheduling Course Selection Guide 2023-2024



## Program of Studies

2023-2024

### **Counselor Student Assignments: All Grade Levels 9-12**

**Ms. Angela Manno**  
(By Last Name)  
**A-J**

**Mrs. Leslie Gossett**  
(By Last Name)  
**K-Z**

Selection of a high school program is one of the most important decisions a secondary student must make. The selections you make will determine the avenues of opportunity to you in your post-high school years. Be careful, choose wisely and weigh these choices against your life's goals. Please keep in mind your teachers, counselors and administrators will assist you and answer any questions you may have concerning your selections. Should you and your parents have any questions, please feel free to call 724-843-7470 Extension 1305.

The curriculum of Beaver Falls High School is planned to meet the needs of the youth of this community. It provides a thorough preparation for students who expect to enter college, technical or vocational school, and a general or vocational training for those who plan to seek employment immediately after graduation. The program is flexible and is designed to meet the needs of the individual student and to promote sound growth and achievement.

### **COURSE SELECTION**

Each student is responsible for selection of his/her courses for high school, getting teacher permission where required and securing the signature of his/her parent or guardian. Deciding on courses should be done after consulting with his/her guidance counselor. After examining the various tests that he/she has taken, his/her previous grades, and career plans, the student should select a course of study that will fulfill his/her needs and meet his/her own requirements.

Once a schedule has been determined, the student is expected to complete the course. The master schedule is determined by the course selections made by the students. When provisions are made to offer a course because there is enough student demand, the students who made these choices are not permitted to change their selections. Schedule changes will be made only in exceptional circumstances and must be in accord with the provisions listed in the Student Handbook. **These changes will be scheduled during the week prior to the start of school. During those first two weeks of school, schedules will only be changed with a parent conference. Any change in schedule that occurs after the first two weeks of school will be considered as a failure in the course and will be listed as such on the student's transcript and permanent record card.**

**IT IS THE RESPONSIBILITY OF THE STUDENT TO BE CERTAIN THAT HE/SHE IS CARRYING SUFFICIENT UNITS OF CREDIT AND THE REQUIRED COURSES FOR GRADUATION. IN ADDITION, EACH STUDENT IS RESPONSIBLE FOR KNOWING THE INFORMATION IN THIS PACKET.**

### **GRADUATION REQUIREMENTS**

4	English Credits	2	Physical Ed.
4	Social Studies Credits	1/2	Health
3	Science Credits	5	Electives
4	Math Credits	1/2	Communications
2	Creative Arts	1	Computer

Total Academic Credits	26 credits
<b>Total Credits Needed for Graduation</b>	<b>26 credits</b>

## **BE PART OF THE HONORS ACADEMY**

To graduate with Honors, High Honors or Highest Honors, the student needs to fulfill the following:

<b><u>HONORS</u></b>	<b><u>HIGH HONOR</u></b>	<b><u>HIGHEST HONORS</u></b>
6 Honors Courses 26 Credits 3.0 Q.P.A.	6 Honors Courses 26 Credits 3.5 Q.P.A.	6 Honors Courses 26 Credits 3.7 Q.P.A.
<b><u>HONORS COURSES</u> (+Weighted Courses)</b>		
Honors English 9,10,11,12 Pre-A.P. English 10 +A.P. English Language 11 +A.P. English Literature 12 Spanish IV +AP Physics Lab Physics Lab Chemistry (H) +A.P. US History +A.P. World Cultures	Anatomy Ethnic Relations Biochemistry +A.P. Biology Algebra III Statistics Pre-Calculus +AP Calculus College Algebra A+A.P. US Gov't. & Politics +A.P. Economics	Jazz Ensemble Madrigals +A.P. Music Theory Psychology +A.P. Psychology Honors Art Accounting II Programming II Advanced Computer Science +A.P. Comp. Science Prin.
<ul style="list-style-type: none"> <li>➤ No more than 3 Honors Courses in any one department may be counted toward satisfying minimum requirements.</li> <li>➤ A "C" or better must be maintained in all Honors Courses in order to be counted for meeting the requirement.</li> <li>➤ Jazz Ensemble and Madrigals may be counted only once, as an Honors Course requirement.</li> </ul>		

## **MEETING THE CREATIVE ARTS GRADUATION REQUIREMENTS**

### **COURSES AVAILABLE:**

Musical Theater (CA)	9 -12	General Art (CA)	9 -12
Writing (CA)	9 -12	Marching Band (CA)	9 -12
Public Speaking (CA)	9 -12	Indus. Materials I (CA)	9 -12
Journalism (CA)	9 -12	Power Tech I (CA)	9 -12
Mixed Chorus (CA)	9 -12	Visual Comm. I (CA)	9 -12
Digital Media(CA)	9 -12	Technical Drafting I (CA)	9 -12
Basic Foods (CA)	9 -11		

## **STUDY HALLS**

To the best of our ability, freshmen are not scheduled for any full period study halls but must carry a full schedule of classes. Study halls for upperclassmen are limited.

# CAREER PLANNING

The Beaver Falls Area School District is committed to the preparation of our students for both post-secondary education and the world of work. We are committed to providing opportunities for our students to fulfill their aspirations. Choosing your future is one of the most challenging and exciting decisions you will make. To plan for your career, you must plan your high school academic program. The courses you take and your experiences and accomplishments in high school can lead you to a rewarding future. A career is more than just a job. It involves education, work, and lifestyle. Achieving success and a fulfilling future requires thoughtful planning and appropriate choices.

Every effort will be made to offer the entire curriculum to all students. However, the offering of these classes will be based upon availability of staff and interest of students.

## SELECTING THE PROPER COURSES

### Suggestions For The College Bound Student:

1. Students planning to attend college should take the most rigorous coursework available in advanced math, science and two years of world language to meet minimum college entrance requirements.
2. Students desiring to study engineering or any other math or science related major in college should pursue four years of advanced math and science.
3. Students planning Business related majors in college should consider taking advanced mathematics, computer and accounting courses.
4. Recommended that all college-bound students take an additional computer course beyond the software applications requirement.
5. Technical Drafting, Visual Communications and Fine Arts courses would be beneficial for students planning to enroll in engineering, drafting, design, art, or architectural studies in college.
6. All college-bound students should complete a minimum of two (2) lab science courses and two (2) levels of same world language.
7. Any student planning to participate in college athletics must take at least one (1) lab science course. Refer to the N.C.A.A. Clearinghouse page and/or visit the website at [www.ncaaclearinghouse.com](http://www.ncaaclearinghouse.com) for guidelines.

## AP and Dual Enrollment

BFHS offers AP and Dual Enrollment courses. Through these college-level courses, a student has the opportunity to earn credit or advanced standing at most of the nation's colleges and universities. These courses will help develop the study habits necessary for rigorous course work and demonstrate maturity and readiness for post-secondary education. Enrollment in these courses is a commitment to hard work and academic excellence.

## Advice about the ACT AND SAT Tests

Almost all four-year colleges require scores from either the ACT or the SAT. Students must be sure to check the websites of the colleges to which they intend to apply for testing requirements.

The website for the ACT is [www.actstudent.org](http://www.actstudent.org)  
and the SAT website is [www.collegeboard.com](http://www.collegeboard.com)

The ACT has four multiple-choice tests: English, Reading, Math, and Science. Students earn a score from 1-36 on each test as well as an overall Composite score. The ACT has an additional, optional Writing Test, which students are encouraged to take. While it does not affect the student's Composite score, many colleges use the score to make their own placement decisions for Freshman English classes.

The SAT Reasoning Test has two (2) sections: Critical Reading and Math. Each section is scored from 200-800 points and scores from all both sections are added up to make one total score.

## RECOMMENDED TIMELINE FOR COLLEGE ADMISSIONS

### Freshman Year

- Meet with your counselor to discuss your post-secondary plans
- Get involved with extra-curricular activities and community service
- Begin investigating post-secondary schools
- Enroll in college preparatory courses

### Sophomore Year

- Meet with your counselor to discuss your post-secondary plans
- Investigate college costs and financial aid
- Enroll in college preparatory courses
- Consider enrolling in CCBC Academics for junior and senior year. Also, consider dual enrollment courses for fall semester of junior year

### Junior Year

- Meet with your counselor to discuss your post-secondary plans
- Take the PSAT/ NMQST, given in mid-October
- Attend a financial aid night at our school, usually held in October
- Investigate entrance requirements to schools and examine application deadlines, scores required for admission, and financial aid possibilities
- Visit college campuses while they are in session
- Take first SAT test in March of junior year. Take SAT at least twice
- Enroll in college preparatory classes, consider taking AP courses and dual enrollment courses

### Senior Year

- Narrow your list of college applications to 5-10. Review with your counselor. Apply before winter break
- Ask teachers for letters of recommendation, usually two
- Attend a financial aid night, usually held in October
- Take either the SAT or ACT if have not done so already
- Conduct a scholarship search and go over monthly Scholarship list provided by Guidance
- Apply for financial aid no later than February 15th  
Compare award packages for each school  
Make a final decision by mid-April and notify all schools applied to of your decision

## NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA) REQUIREMENTS

Prospective student-athletes who plan to participating in Division I or II college athletics are responsible for planning their academic studies in accordance with the NCAA standards.

### Core Courses

- **NCAA Division I requires 16 core courses.**
- **NCAA Division II will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below). These 10 courses become "locked in" at the seventh semester and cannot be retaken for grade improvement.

### Grade-Point Average

- **Be sure** to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA.
- **Division I** GPA required to receive athletic aid and practice is 2.000
- **Division I** GPA required to be eligible for competition is 2.300
- **The Division II** core GPA requirement is a minimum of 2.200.
- Remember, the NCAA GPA is calculated using NCAA core courses only.

### Test Scores

- **Division I** uses a sliding scale to match test scores and core grade-point averages (GPA).
- **Division II** requires a minimum SAT score of 920 or an ACT sum score of 70.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections.
- The ACT score used for NCAA purposes is a **sum** of four sections.
- When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency.
- Test scores that appear on transcripts will not be used.

#### **DIVISION I – 16 Core Courses**

4 years of English - AP, College Prep, or Honors  
3 years of Math (Algebra 1 and higher)  
2 years of nat./phys. Science (1 year of lab if offered by high school)  
1 year of additional English, mathematics or natural/physical science.  
2 years of social science  
4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

#### **DIVISION II – 16 Core Courses**

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

**Full Qualifier** -Seven of your ten core courses are in English, mathematics or science and are banked before the start of your 7th semester of high school. Your sixteen core courses are in required subject areas. Your GPA in the core courses is greater than or equal to 2.3(DI) or 2.2 (DII) and you graduated High School.

**Academic Redshirt** - (Division I) Your sixteen core courses are in required subject areas. Your GPA in the core courses is greater than or equal to 2.0 and you graduated High School.

**Non-Qualifier** - (Division II) Your sixteen core courses are in required subject areas. Your GPA in the core courses is greater than or equal to 2.0 and you graduated High School.

**Early Academic Qualifier** - (Division I) Pre-seventh semester 14 core courses in required subject areas. Your GPA in the core courses is greater than 3.0 and you graduated High School. (Division II) Pre-seventh semester 14 core courses in required subject areas. Your GPA in the core courses is greater than or equal to 2.5 and you graduated High School.

## ARTS & COMMUNICATION

This career area involves awareness, interpretation, application and creation of the arts and communication skills. Students may be interested in exploring this field if they:

- Are interested in art, music or writing
- Are creative and enjoy entertaining others
- Are good oral and/or written communicators
- Are open-minded
- Like to work in groups or teams

### POSSIBLE CAREER OPPORTUNITIES INCLUDE:

**Entertaining-Performing Arts:** Acting and Redirecting, Dance, Drama/Theatre Arts

**Visual & Performing Arts Education:** Dance, Drama, Music, Physical Education

**Communications:** Writer, Public Relations, Broadcasting, Digital Media, Journalist, Photojournalist

**Music:** Conducting, Piano, Voice

**Fine Arts:** Architecture, Art, Art History, Ceramic Arts, Graphic Design & Visual Communications, Drawing, Fashion Design & Illustration, Film/Cinema Studies, Film-Video Production, Visual Arts, Industrial Design, Interior Design, Landscape Architecture, Jewelry Arts, Painting, Photography and Web Page Design, Florist

### ELECTIVES TO CONSIDER:

- Band
- Basic Foods
- Beaver County Career & Technical Center Programs
- Broadcast Journalism
- Fine Arts I-III
- Chorus
- Communications
- Culinary Arts
- Digital Media I-IV
- English Grammar/Composition
- Entrepreneurship
- Fashion Design
- Financial Management
- General Art
- Honors Art
- Jazz Band
- Journalism I-III
- Modern Literature
- Multimedia
- Public Speaking
- Technical Drafting I-IV
- Musical Theater
- Visual Communications I-IV
- World Languages
- Writing

# **BUSINESS, FINANCE & INFORMATION TECHNOLOGY**

Careers in this area are for students interested in working in the world on business, finance and information services. Students may follow this career path if they:

- Are interested in a business environment
- Are interested in accounting/mathematics
- Would like to own their own business
- Enjoy working with others, planning events and leadership roles
- Are interested in technology

## **POSSIBLE CAREER OPPORTUNITIES INCLUDE:**

### **FINANCE**

Accounting, Banking, Business Administration, Financial Planning, Finance, Insurance and Risk Management, International Business/Economics, Legal Administration, Marketing

### **MANAGEMENT**

Advertising, Entrepreneurship, Fashion Merchandising, Hospital Administration, Hotel/Restaurant Management, Human Resource Management, Logistics and Materials Management, Organizational Behavior, Political Science, Real Estate, Retail Management and Travel-Tourism Management.

### **PROFESSIONAL:**

Software Engineer, Tax Examiner, Desktop Publisher, Sales Representative, Operations Analyst, Chief Executive Officer.

## **ELECTIVES TO CONSIDER:**

- Accounting I & II
- Basic Foods
- Business Math
- Business Communications
- Culinary Arts
- Criminal/Civil Law
- English Grammar/Composition
- Entrepreneurship
- Exploratory Business
- Fashion Design I & II
- Financial Management
- Multimedia
- Pre-Calculus
- Psychology
- Public Speaking
- Sports & Entertainment Management I & II
- Statistics (H)
- Travel & Tourism I & II
- Visual Communications I-IV
- World Languages
- Writing

# **ENGINEERING & INDUSTRIAL TECHNOLOGY**

This career area relates to design, development, installation or maintenance of physical systems. Occupations involve responsibility for engineering and structural design in the manufacture, construction or transportation of products or utilities.

## **STUDENTS MIGHT CONSIDER THIS CAREER PATH IF THEY:**

- Enjoy building things
- Prefer math and science
- Enjoy design projects
- Like research
- Are detail oriented
- Enjoy working as part of a team
- Enjoy problem solving

## **POSSIBLE CAREER OPPORTUNITIES INCLUDE:**

Engineer, (Aeronautical, Petroleum, Nuclear, Plastics, Chemical, Aerospace, Civil, Mechanical), Architect, Drafter/Designer, Health & Safety Inspector, Robotics, Astronaut, Computer Networking Manager, Air Traffic Control, Electrician, Civil Engineer, CAD/CAM, Diesel Mechanic, Plumber, Carpenter, Mason, Machine Operator & Systems Administration.

## **ELECTIVES TO CONSIDER:**

- All Chemistry classes
- All Physics classes
- Beaver County Career & Technical Center Programs
- Digital Media I-IV
- Engineering Essentials
- English Grammar/Composition
- Fine Arts I-III
- General Art
- Honors Art
- Industrial Materials I-IV
- Intro. To Engineering
- Mathematics (Highest Levels) Calculus
- Power Technology I-IV
- Psychology
- Public Speaking
- Technical Drafting I-IV
- Visual Communications I-IV
- World Languages

# **HUMAN SERVICES**

Human services careers require skills and experiences related to meeting family and human needs. These occupations include positions of high responsibility in caring for the personal needs and welfare of others in social service and education.

## **STUDENTS MIGHT CONSIDER THIS CAREER PATH IF THEY:**

- They are interested in caring for people
- Enjoy communicating with others
- Like serving other's needs
- Enjoy helping people reach their potential
- Like to work with people of all ages
- Are tolerant of differences among people
- Are patient

## **POSSIBLE CAREER OPPORTUNITIES INCLUDE:**

College Professor, Principal, Teacher, Marriage and Family Therapist, Psychologist, Recreation Therapist, Athletic Trainer, Athletic Agent, Park Ranger, FBI Agent, Crime Lab Technician, Massage Therapist, Cosmetologist, Travel Agent, Armed Services, Post Service Worker, Fire Fighter, Personal Trainer, Health Services Manager, Music Therapist, Social Worker, Counselor, Funeral Director, Meeting and Convention Planner, Customs Inspector, Police Officer.

## **ELECTIVES TO CONSIDER:**

- Advanced Sciences
- Advanced History
- Band
- Basic Foods
- Beaver County Career & Technical Center Programs
- Fine Arts I-III
- Chorus
- Computer Classes
- Criminal/Civil Law
- Culinary Arts
- English Grammar/Composition
- General Art
- Honors Art
- Journalism I-III
- Mathematics (Highest Levels) Calculus
- Multimedia
- Psychology
- Public Speaking
- Musical Theater
- World Languages
- Writing

## **SCIENCE AND HEALTH**

Students with interest in the life, physical and behavioral sciences may find this area rewarding. It involves the planning, managing, and providing of therapeutic services, diagnostic services, health information and biochemistry research and development.

### **STUDENTS MIGHT CONSIDER THIS CAREER PATH IF THEY:**

- Are interested in the health care environment
- Are interested in environmental issues
- Enjoy working in science and experimentation
- Like working outdoors
- Enjoy interacting with and assisting people
- Are conscientious and dependable

### **POSSIBLE CAREER OPPORTUNITIES INCLUDE:**

Physician, Athletic Trainer, Biologist, Chemist, Farmer, Lab Technician, Medical Researcher, Nursing, Anesthesiology, Anesthetist, Occupational/Physical Therapist, Dietician, Animal Caretaker, Wildlife Reserve Worker, Zoo Caretaker, Optician, Healthcare Technicians, Dental Hygienist, Pharmacist, Pharmacy Assistant, Fish & Game Worker, Respiratory Therapist, Chiropractor, Agronomist, Geographer, Marine Biologist, Veterinarian, Geneticist, Statistician, Zoologist, Geologist, Ecologist, Pathologist, Meteorologist, Physicist Customs Inspector, Police Officer.

### **ELECTIVES TO CONSIDER:**

- Advanced Biology
- Advanced Chemistry
- Advanced Physics
- Basic Foods
- Beaver County Career & Technical Center Programs
- Computers
- Culinary Arts
- English Grammar/Composition
- Health
- Mathematics (Highest Levels) Calculus
- Psychology
- Public Speaking
- Statistics (H)
- World Languages
- Writing

**Courses designated: HN=Honors Courses, RQ=Required Courses, WT=Weighted Courses**

## **ENGLISH DEPARTMENT**

### **COLLEGE & CAREER READINESS ENGLISH 9, 10, 11 or 12**

**1 CREDIT EA.**

**RQ**

These courses are designed for students to prepare for college or a career after graduation. They will provide the opportunity to improve basic language skills by emphasizing grammar, literature, communication skills, library skills, and vocabulary. Students will be exposed to technical writing & composition, research, World Literature, and critical thinking skills. These courses are designed to prepare students for the verbal section of the Scholastic Aptitude Test and for continuing education after high school.

### **HONORS ENGLISH**

**9-12 GRADE**

**1 CREDIT EA.**

**HN**

Consent to enroll in Honors English 9,10,11,12 or AP English 12 is based upon:

English grades

Study/work habits

School attendance

Listening/speaking skills

In-class reading performance

Writing Skills

Outside reading

Test scores

The Honors English Courses encompass the concepts dealt with in English 9-12 at an accelerated pace. Additionally students will focus more intensely on college preparatory writing and research skill development, along with more extensive reading assignments.

### **PRE AP ENGLISH 10**

**10<sup>TH</sup> GRADE**

**1 CREDIT**

**HN**

**Prerequisite: Honors English 9 and teacher recommendation**

This course is a rigorous academic curriculum designed to give students the tools they need to strengthen reading and writing skills in preparation for success in the AP and college level courses, as well as the PSAT and SAT. The class involves, but is not limited to, novels, nonfiction works, poetry, drama, essays, grammar, mechanics, academic vocabulary, technology based projects, and research.

### **AP ENGLISH LANGUAGE 11**

**11TH GRADE**

**1 CREDIT**

**HN, WT**

**Prerequisite: Pre-AP or Honors English 10 and teacher recommendation**

The AP Language and Composition course is a college-level course in which students learn to read more deeply and carefully, analyze a broad and challenging range of nonfiction prose with a limited selection of accompanying fictional classics, deepen their awareness of rhetoric and they way in which language works. Through frequent reading and writing and discussion, students develop the ability to work with both language and text while strengthening their own writing skills. Students will be required to read independently, to follow a strict reading schedule, to write, and to revise and to balance these requirements with engaging group and peer discussions and conferences. Authors and selections represent a broad variety of time periods, backgrounds, and cultures.

### **AP ENGLISH LITERATURE 12**

**12TH GRADE**

**1 CREDIT**

**HN, WT**

**Prerequisite: AP or Honors English 11 and teacher recommendation**

AP English Literature and Composition is an introductory college-level literary analysis course designed with an increased pace and the academic rigor that is required of college level courses. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, diction, perspective, figurative language, and literary analysis. This course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis to deepen their understanding of the ways that writers use language to provide meaning. Students consider works' structures, styles, and themes, as well as their use of figurative language, imagery and symbolism. Students will be expected to read challenging texts independently and constantly, as well as write often to analyze and interpret literary works. There will be nightly homework in this course. This course prepares students to take the AP English and Composition Exam.

### **COMMUNICATIONS**

**11-12TH GRADE**

**1/2 CREDIT**

**RQ**

A half-credit, one-semester course required for graduation. The student will have opportunities for a variety of interactive, interpersonal, small-group and whole-group communications problems and situations.

**PUBLIC SPEAKING****9-12TH GRADE****1/2 CREDIT**

Students will enjoy a variety of speaking projects and experiences that will strengthen public speaking and language skills as well as establish the value of speech in personal fulfillment, group relationships, and the appreciation of ethnic and cultural differences.

**HUMANITIES****9-12TH GRADE****1 CREDIT**

Humanities is a course that reflects the human being's search for the meaning to life. Students will experience numerous films, magazines of literature and writing, video tapes and other resources to discover and appreciate human values as they are expressed in mythology, literature, theater, writing, art and music.

**JOURNALISM I, II, & III****9-12TH GRADE****1/2 CREDIT EA.**

Students will explain the role of Journalism in society, interpret the first Amendment, understand restrictions of the press, identify laws, ethics, and policy as it pertains to writing.

**WRITING****9-12TH GRADE****1/2 CREDIT**

Students will pre-write, draft, and revise writing projects designed to develop skills in utilitarian and creative writing. In order to keep pace with the class, students should possess basic computer skills.

**SOCIAL STUDIES DEPARTMENT****U.S. HISTORY****9TH GRADE****1 CREDIT****RQ**

U.S. History includes our story from Reconstruction to our present leadership of the free world. The diversity of the American people and our economy is emphasized.

**CIVICS & GEOGRAPHY****10TH GRADE****1 CREDIT****RQ**

In this course students will study the theoretical aspects of citizenship, its rights and duties, and the duties of citizens to each other as members of a political body and to the government. The geography of America and the world is also studied. Some emphasis will be placed on the government and geography of Pennsylvania.

**WORLD CULTURES****11TH GRADE****1 CREDIT****RQ**

World Cultures is a course that seeks to provide context for understanding our world. Topics to be explored will include Ancient and Classical civilizations, the development of the Middle East, the Medieval and Renaissance Eras, the Ages of Exploration and Revolution, and the modern world. This course will take an interdisciplinary approach to understanding by exploring geography, patterns of global change, human interaction, economics, history, humanities, beliefs, and various other aspects of human culture. The goal is to become, as Socrates once mused, "...a citizen of the world."

**AP WORLD CULTURES****11TH GRADE****1 CREDIT****HN, WT**

Students will study the cultural, economic, religious, political, and social developments that have shaped the world. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. The course will shape and develop your ability to analyze change over time and draw connections across the human experience.

**Prerequisite:** A 3.6 - 4.0 in prior history classes and teacher recommendation

**ECONOMICS/GOVERNMENT****12TH GRADE****1 CREDIT****RQ**

This is an economic survey of our economy and current economic issues with emphasis placed on their relevance to the American consumer. Government is a study of our government relationships to society.

**AP US GOVERNMENT & POLITICS****12TH GRADE****1 CREDIT****HN, WT**

AP US Government and Politics is a rigorous full-year course intended for students with a strong interest in learning about the foundations, structures and processes of the United States government and the political system that selects leaders for that government. Emphasis will be placed on developing an understanding of the relationship between the political process and governance, especially with respect to developing public policy. The course will involve a substantial amount of reading, including selections from the text, scholarly articles and news articles. The class will operate on the level of a college American Government course; as such the primary purpose of the course is to prepare students for the Advance Placement exam.

**Prerequisite:** A 3.6 - 4.0 in prior history classes and teacher recommendation

**AP US HISTORY****11<sup>TH</sup> - 12<sup>TH</sup> GRADE****1 CREDIT****HN, WT**

AP US History is a rigorous full-year course established for students with a strong interest in learning about the American story from the Pre-Columbian period to the present. The class is taught in accordance with the *AP U.S. History Curriculum Framework*, and is designed to prepare students for the AP U.S. History Exam in May. The course will place an emphasis on historical analysis and will require the student to become a historian. The course will involve a substantial amount of reading, including sections from the textbook, scholarly articles, and first-hand accounts. The class will operate on the level of a college American History course.

**Prerequisite:** A 3.6 - 4.0 in prior history classes and teacher recommendation.

**AP ECONOMICS****11<sup>TH</sup> - 12<sup>TH</sup> GRADE****1 CREDIT****HN, WT**

The Advanced Placement Economics course is divided into two parts: Microeconomics and Macroeconomics. The microeconomics course emphasizes the decisions made by individual producers and consumers within a product market as well as the effect of government interventions on the working of the market. Macroeconomics examines how those markets interact within a large scale economic system. This also includes discussion of economic performance measures, price determination, stabilization policies and the role of the financial sector. Taken together, the course prepares students to take the Advanced Placement Microeconomics and Macroeconomics exams in the spring. These tests are scored separately and give the students the opportunity to receive college credit for two courses.

**Prerequisite:** A 3.6 - 4.0 in prior history classes and teacher recommendation

**AFRO-AMERICAN HISTORY I****9-12<sup>TH</sup> GRADE****1 CREDIT**

This course is a study that begins with Ancient Africa and concludes with the Reconstruction period following the Civil War. The course will look at the Civil Rights Movement and the civilization and culture of Africa. It will also look at the institution of slavery and the role that both enslaved and free Americans played in the development of the United States.

**AFRO-AMERICAN HISTORY II****10-12<sup>TH</sup> GRADE****1 CREDIT**

**Afro-History I is required.**

This is an advanced study of the Afro-American heritage.

**PSYCHOLOGY****11-12<sup>TH</sup> GRADE****1 CREDIT****HN**

This course provides a solid foundation in the basic theories and principles of psychology. The content emphasis is on self-development and growth, personality theory and adjustment, and societal interaction. Students will learn about adolescence, personality theory, mental illness, intelligence, group behavior, and parapsychology.

**AP PSYCHOLOGY****11- 12<sup>TH</sup> GRADE****1 CREDIT****HN, WT**

AP Psychology will introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. This is a college level course and students will be expected to use effective reading, writing, and study skills.

**Prerequisite:** A 3.6 - 4.0 in prior history classes and teacher recommendation

**CRIMINAL LAW****11-12<sup>TH</sup> GRADE****1/2 CREDIT**

Criminal Law is an overview of the Criminal Justice System; including an analysis of the classification of crime, laws of arrest, and juvenile crime, units dealing with the "Motor Vehicle of Pa", and the "Controlled Substance Act" of the Commonwealth is also included.

**CIVIL LAW****11-12<sup>TH</sup> GRADE****1/2 CREDIT**

This course is an introduction to the civil system of law used in the United States. It will also provide information pertaining to various areas that fall under this system. Students will analyze the reasons why the United States has become a lawsuit-saturated society. Lastly, this course will compare and contrast American criminal and civil law systems and how both often overlap and conflict.

**ETHNIC RELATIONS****11-12<sup>TH</sup> GRADE****1 CREDIT****HN**

This course of study will focus on the historical relationships between various ethnic groups that resulted in instances of racial/ethnic strife or acts of genocide, concentrating on lessons involving the Holocaust, Native Americans, African Slave Trade, etc. Instruction will involve various book excerpts, magazine and newspaper articles, videos, field trips, creative writing and artwork.

## MATHEMATICS DEPARTMENT

### **ALGEBRA I**

**9-10TH GRADE**

**1 CREDIT**

**RQ**

This full year course provides a solid foundation in the fundamentals of algebra. Algebra I includes basic concepts, definitions, procedures of variables and signed numbers, expressions, equations, inequalities, linear functions, polynomials, rational functions, and radicals.

### **ADVANCED ALGEBRA**

**10-11 TH GRADE**

**1 CREDIT**

This course will continue to develop skills students were exposed to in Algebra I.

### **GEOMETRY**

**9-11TH GRADE**

**1 CREDIT**

This course develops a logical sequence of deductive and inductive reasoning by understanding undefined terms, definitions, assumptions, corollaries, and practical applications. Emphasis is placed on the reasoning skills gained by completing various forms of proofs.

### **CP GEOMETRY**

**9-10TH GRADE**

**1 CREDIT**

CP Geometry is designed to challenge students and requires them to think analytically and use problem solving skills and apply them to the following topics: logical reasoning, proofs, parallel and perpendicular lines, triangle relationships, congruent and similar figures, polygons and circles, the Pythagorean Theorem, surface area and volume, and transformations in the coordinate plane. Application and real-world problems will be emphasized.

**This course is intended for advanced math students with teacher recommendation.**

### **ALGEBRA II**

**9-12TH GRADE**

**1 CREDIT**

**Algebra I is required.**

Algebra II applies material covered in Algebra I to equations, graphs, functions, ratios, proportions, variations, exponents, radicals, imaginaries, quadratics, matrices, and logarithms. Topics such as probability, data analysis, statistics, and basic trigonometry will also be covered.

### **ALGEBRA III**

**10-12TH GRADE**

**1 CREDIT**

**HN**

**Algebra II is required to take this course.**

Algebra III continues on with the topics in Algebra II including relations, equations, functions, identities and graphing. This course gives a student a broader foundation to advance into Pre-Calculus.

### **BUSINESS MATHEMATICS**

**12TH GRADE**

**1 CREDIT**

Students will use their math skills to solve a variety of business and personal math applications. Topics to be included in this course are purchasing, sales, marketing, accounting, borrowing, charge accounts, and cash purchases.

### **COLLEGE ALGEBRA**

**12TH GRADE**

**1 CREDIT**

**HN**

This course is a basic college level math course dealing with Algebra skills similar to those found in Algebra III. Some of the topics stressed include: properties of the real number system, linear functions and equations, exponents, radicals, functions, systems of equations, complex numbers, and quadratic equations.

### **BASIC STATISTICS**

**11-12TH GRADE**

**1 CREDIT**

This course is designed to work with problems in everyday life. Students will study how to read and make graphs, how to figure out grade averages, and averages in sports.

### **STATISTICS**

**11-12TH GRADE**

**1 CREDIT**

**HN**

Statistics is a mathematical science pertaining to the collection, analysis, interpretation or explanation, and presentation of data. It also provides tools for prediction and forecasting based on data.

### **PRE-CALCULUS**

**11-12TH GRADE**

**1 CREDIT**

**HN**

The first half of the course covers topics such as graphing and solving polynomials, radicals, inverses, partial fractions, and locating critical points using a variety of methods. The second half of the course is concentrated on the graphs and inverses of trigonometric functions, identities, and vector and parametric equations.

**AP CALCULUS****12TH GRADE****1 CREDIT****HN, WT**

Students must have passed Pre-Calculus with a B or better and be recommended by the teacher.

This course is rigorous and challenging for the capable mathematics student wanting to enter a field in college that is mathematically related. The course is organized around the foundational concepts of Calculus: Limits, derivatives, integrals, and the Fundamental Theorem of Calculus.

**SCIENCE DEPARTMENT****INTRO TO BIOLOGY****9TH GRADE****1 CREDIT**

This is an introductory life science course without a lab. The main focus of this course will be introducing key concepts which will be examined in greater depth in Lab Biology. These concepts include: basic biochemistry, cell structures, cellular energy, cell reproduction, evolution and genetics. Upon successful completion of this course, students will go on to Lab Biology.

**LAB BIOLOGY****9 -10TH GRADE****1 CREDIT**

This course is designed to introduce students to basic biological principles, the chemical basis for life, cell energy, cell reproduction, genetics, evolution and ecology. Through the process of demonstrations, class discussions, cooperative and individual investigations and assignments. The unity, continuity and interaction of living systems will be emphasized. This course is designed for both college and non-college bound students.

**ADV LAB BIOLOGY****9TH GRADE****1 CREDIT**

Teacher recommendation is required from the 8th grade science teacher.

This course is designed for the superior science student that has demonstrated academic success. The pace of learning is accelerated, the level of expectation is high and students should be adept in working independently and in a cooperative environment. Topics covered in depth include basic biological principles, the chemical basis for life, bioenergetics, cell reproduction, genetics, evolution and ecology.

**LAB CHEMISTRY****10 -11TH GRADE****1 CREDIT**

This course is designed to be an introduction to chemistry concepts. These concepts will be taught through mathematical calculations, models, research and laboratory experiments. An emphasis will be placed on analyzing the world through a chemistry lens. Topics covered include: the metric system, matter and change, nuclear chemistry, the periodic table, ionic and covalent bonding, chemical reactions, stoichiometry and properties of solutions.

**LAB CHEMISTRY (H)****10TH GRADE****1 CREDIT****HN**

Teacher recommendation is required.

This accelerated course is designed as an honors course that goes into more depth discussing chemistry concepts. These concepts will be taught through mathematical calculations, models, research and advanced laboratory experiments. An emphasis will be placed on analyzing the world through a chemistry lens. Topics covered include: the metric system, matter and change, nuclear chemistry, the periodic table, ionic and covalent bonding, chemical reactions, stoichiometry and properties of solutions. A final project will be required.

**PHYSICS****11-12TH GRADE****1 CREDIT**

This course studies the basic principles of Physics with a focus on mechanics. The course will cover topics in mechanics, waves, thermodynamics, and electricity. It is the third course in the series following Lab Biology and Lab Chemistry.

**LAB PHYSICS****11TH GRADE****1 CREDIT****HN**

Honors Lab Chemistry, Pre-Calculus, and teacher recommendation are required.

This is an honors course designed for the above average student seeking or requiring an academic challenge. This course will focus on force, energy, and motion. Students will deal with the theory of physics with emphasis on the mathematical description of the concepts, theories, and principles. The course will provide students with methods of problem solving and prepare them for college courses in the physical sciences and engineering. An extensive amount of material will be covered, and the student is expected to accept responsibility for individual effort and study.

**GENERAL SCIENCE****11TH GRADE****1 CREDIT**

The course covers such areas as matter, atomic structure, energy, chemical and physical changes, heat and temperature, including a detailed involvement in studying local weather, force and motion, waves and sound, light, electricity, and magnetism.

<b>BIO-CHEMISTRY</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>	<b>HN</b>
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This course offers an eight to twelve week session of organic chemistry as a prerequisite to the material covered in the biochemistry portion of the course. The study of biochemistry provides students with a strong understanding of chemical reactions and processes which occur in living things. **This course will count as a science elective.**

<b>ADVANCED CHEMISTRY</b>	<b>11-12 TH GRADE</b>	<b>1 CREDIT</b>	<b>HN</b>
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This course is a rigorous course of study in chemistry comparable to a first year introductory chemistry course at the college level. There is a heavy emphasis on the problem-solving aspects of atomic and molecular structure, thermodynamics, redox-reactions, kinetics and electro-chemistry. **This course will count as a science elective.**

<b>ANATOMY</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>	<b>HN</b>
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**Physics and teacher recommendation are required.**

This advanced course is designed as an intro to anatomy & physiology to prepare students for post secondary school. This course will include labeling anatomical diagrams, medical terminology analysis, lab demonstrations, organ dissections and lecture. Students will be expected to take notes, study independently and be an active participant in class activities and discussions. Topics covered will include: medical terminology, biochemistry, tissues, blood and the major organ systems. **This course will count as a science elective.**

**ENVIRONMENTAL SCIENCE** **12TH GRADE** **1 CREDIT**

This course will be geared towards the senior who have met all three science requirements but want to take a science elective. The course will cover topics such as earth science, ecology, biomes, energy, human health with class discussions, projects, individual and group assignments.

<b>AP BIOLOGY</b>	<b>11-12TH GRADE</b>	<b>1.5 CREDITS</b>	<b>HN, WT</b>
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**Lab Physics and teacher recommendation are required.**

AP Biology is an advanced course equivalent to a college-level Biology I course that is designed to prepare students for post-secondary school. Evaluations will include inquiry-based lab work, a final portfolio and various exams. Students will gain a deeper understanding of biological concepts and experience in the scientific process. At the end of the year the student will have the option to take the AP Biology exam in order to receive college credit for the course.

<b>AP PHYSICS</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>	<b>HN, WT</b>
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This advanced placement course is a rigorous course of study comparable to a first year college physics course for engineers covering mechanics and includes lab experience. At the end of the year the student will have the option to take the AP Physics exam in order to receive college credit for the course.

**FOREIGN LANGUAGE DEPARTMENT**

The Spanish courses must be taken in sequential order beginning with an introduction to proper pronunciation and basic grammar in level I. As students progress through the advanced levels they will expand their thematic vocabulary which will enable students to engage in extended communication in both oral and written mediums. Cultural aspects will also be presented.

**SPANISH I** **9-12TH GRADE** **1 CREDIT**

<b>SPANISH II</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
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<b>SPANISH III</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>

<b>SPANISH IV</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
	<b>11-12<sup>TH</sup> GRADE</b>	<b>1 CREDIT</b>

## **BUSINESS DEPARTMENT/COMPUTER TECHNOLOGY**

### **COMPUTER SCIENCE**

**9-12TH GRADE**

**1/2 CREDIT**

This course is an introduction course to computer science and various computer science skills such as problem solving, decision making, and critical thinking. It includes the use of basic programming languages for website design, problem solving skills for game design, and critical thinking and creativity for app design.

### **COMPUTER APPLICATIONS**

**9-12TH GRADE**

**1/2 CREDIT**

Computer Applications will allow students to sharpen their Microsoft Office Skills and Google. It will include all Office Applications and place special emphasis on Microsoft Publisher, Windows Movie Maker and Windows Media Player.

### **EXPLORATORY BUSINESS**

**9-10TH GRADE**

**1/2 CREDIT**

**(Career Exploration & Development)**

Students will explore their own interests, skills and abilities to investigate careers most suited to them. Various sources will be used to explore careers including Internet, printed publications and personal discussion.

### **DIGITAL CITIZENSHIP**

**9-10TH GRADE**

**1/2 CREDIT**

This course is to serve as an exploration of digital media and student interaction within the digital world. Students would analyze and evaluate interactions online as well as the use of media, advertising, and data-collection in targeted persuasion for the purpose of learning to navigate digital media and use it as a tool for success.

### **SPORTS & ENTERTNMT. MANGT. I & II**

**9-12TH GRADE**

**1/2 CREDIT EA.**

This course is designed for students interested in sports, entertainment, and event management. The following topics will be covered: licensing and naming rights, business foundations, concessions and on-site merchandising, promotions, safety and security, and human relations. Field trips, speakers and teamwork will be included. Various sources will be used to explore sports and entertainment management.

### **FASHION MERCHANDISING I & II**

**9-12TH GRADE**

**1/2 CREDIT EA.**

This course is designed for students interested in the fashion industry and the merchandising of fashion. Topics include an overview of the fashion industry, evolution and movement of fashion, career development, merchandising, risk management, promotion, and fashion show production.

### **TRAVEL & TOURISM I & II**

**9-12TH GRADE**

**1/2 CREDIT EA.**

This course is designed to provide a foundation for students interested in a career in travel, tourism, and recreation marketing. Emphasis is placed on the hospitality/tourism industry, customer relations, travel destinations, tourism promotion, economics, and career development.

### **MULTIMEDIA**

**10-12TH GRADE**

**1/2 CREDIT**

Students will use a variety of software programs to create multimedia presentations combining text, graphics, sound and animation. Simulations, projects and teamwork are a part of this class. Students will be expected to give presentations.

### **PROGRAMMING I**

**10-12TH GRADE**

**1/2CREDIT**

This course will teach students how to write and execute programs on their own using the JAVA programming language. Basic game programming will be introduced.

### **PROGRAMMING II**

**10-12TH GRADE**

**1/2 CREDIT**

**HN**

**Programming I is required.**

This honors course will incorporate the knowledge students gained in Programming I and add more programming concepts to create more deluxe computer programs using the Java programming language. Beginning game programming will also covered.

### **ADVANCED COMPUTER SCIENCE**

**11-12TH GRADE**

**1/2 CREDIT**

**HN**

**Programming II is required or teacher recommendation.**

Advance Computer Science allows students to apply skills learned in both Computer Science and Programming classes to create advanced Computer Science Projects. It includes Web Development, Interactive Gaming, App. Design, and Artificial Intelligence/Machine Learning utilizing Web Based Labs on the [code.org](http://code.org) website.

<b>AP COMPUTER SCIENCE PRIN.</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>	<b>HN, WT</b>
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**Programming, Advanced Computer Science and Algebra I are required with 3.6.**

The AP Computer Science Principles curriculum is a full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. The course is recommended for students with a strong background in mathematics and basic computer programming.

<b>ENTREPRENEURSHIP</b>	<b>11-12TH GRADE</b>	<b>1/2 CREDIT</b>
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This course introduces students to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the mastery of skills needed to plan, organize, manage, and finance a small business. Work-based learning strategies include simulations, projects, and teamwork.

<b>FINANCIAL MANAGEMENT</b>	<b>11-12TH GRADE</b>	<b>1/2 CREDIT</b>
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The emphasis in this course is on how to manage your money—now and in the future. The class will involve working in cooperative learning groups to develop money management skills and solve financial problems. Research, buying and selling of stocks will be done using the Internet.

<b>ACCOUNTING I</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
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Accounting is a year-long course designed to introduce accounting principles in single owner businesses, partnerships and corporations. A hands-on accounting unit and use of spreadsheets will be introduced. The class will involve working in cooperative learning groups to solve accounting problems.

<b>ACCOUNTING II</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>	<b>HN</b>
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**Accounting I is required.**

Accounting II is an honors course in which accounting principles for partnerships and corporations will be reviewed and expanded. A hands-on accounting unit and use of spreadsheets will be used. This class will include working in cooperative learning groups to solve accounting problems. This course will count as a Math credit for graduation.

## **INDUSTRIAL ART/TECHNOLOGY EDUCATION**

In this course students will learn how to safely use tools and machines to work with a variety of materials and processes, including but not limited to woodworking, welding, sheet metal fabrication, plastics forming and laser engraving / cutting to produce a variety of projects. Students can progress to the upper levels to learn forging and turning if desired and apply their skills to produce their own projects.

<b>INDUSTRIAL MATERIALS I</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
<b>INDUSTRIAL MATERIALS II</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
<b>INDUSTRIAL MATERIALS III</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>
<b>INDUSTRIAL MATERIALS IV</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>

Digital Media focuses on digital design, graphics editing programs, animation, photography, audio and video productions. The course prepares students to understand and apply concepts and processes relating to each unit within the world of digital media. Upper-level courses are designed as an extension to foster the students' mastery of skills such as creative expression, leadership, production and management, and personal strengths that are required to succeed and advance in related fields and opportunities.

<b>DIGITAL MEDIA I</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
<b>DIGITAL MEDIA II</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
<b>DIGITAL MEDIA III</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>
<b>DIGITAL MEDIA IV</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>

<b>BROADCAST JOURNALISM</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
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**Digital Media I is required.**

In this course, students will utilize the recording studio to produce and refine their work with state of the art technology. Students will use digital media and technology to record, edit, transfer and broadcast their own video projects as well as the school's morning announcements. Students will enhance and hone specific skills such as critical thinking, researching, creative writing, public speaking, collaboration, and communication.

In this course students will learn how to apply design principles with sketching and software to create both mechanical and architectural designs. The student designs are brought to life using 3-D printing and laser cutting to produce various student designed projects. Students can progress to the upper levels to develop and create more advanced projects.

<b>TECHNICAL DRAFTING I</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
<b>TECHNICAL DRAFTING II</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
<b>TECHNICAL DRAFTING III</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>
<b>TECHNICAL DRAFTING IV</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>

Visual Communications focuses on digital design application, design principles, color theory, marketing and advertising, printing techniques and STEAM concepts. The course prepares students to understand and apply concepts and processes relating to each unit within the world of visual communications. Upper-level courses are designed as an extension to foster the students' mastery of skills such as creative expression, leadership, teamwork, and personal strengths that are required to succeed and advance in related fields and opportunities.

<b>VISUAL COMMUNICATIONS I</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
<b>VISUAL COMMUNICATIONS II</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
<b>VISUAL COMMUNICATIONS III</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>
<b>VISUAL COMMUNICATIONS IV</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>

In this course students will safely experiment with electrical and pneumatic power. Students will learn how to safely install residential wiring devices, create small electrical generators / motors, and build a small solar module. Students will also use pneumatic power to design, create and test rockets and land vehicles. In the upper level class students will learn how to safely install residential electric circuits. The students will also design, build and test rockets, land vehicles and spring powered devices. The course also covers unmanned radio guided vehicles.

<b>POWER TECH I</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
<b>POWER TECH II</b>	<b>10-12TH GRADE</b>	<b>1 CREDIT</b>
<b>POWER TECH III</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>
<b>POWER TECH IV</b>	<b>12TH GRADE</b>	<b>1 CREDIT</b>

<b>ENGINEERING ESSENTIALS</b>	<b>9-12TH GRADE</b>	<b>1 CREDIT</b>
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**Completion of Algebra I is required.**

Explore how engineers make a difference and improve lives, while using modern engineering tools, such as geographic information systems, 3-D solid modeling software, and prototyping equipment. Work on your own and as part of a team to develop solutions to community and global challenges that the next generation of engineers will face. Examples of topics covered in the course include disaster relief and recovery, worker health and well-being, modern medical devices and procedures, and sustainable cities and communities.

<b>INTRO TO ENGINEERING</b>	<b>11-12TH GRADE</b>	<b>1 CREDIT</b>	<b>ELECTIVE</b>
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**Engineering Essentials is required.**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. In addition the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. Ethical issues related to professional practice and product development are also presented.

## **FINE AND PRACTICAL ARTS**

<b>BASIC FOODS</b>	<b>9-11TH GRADE</b>	<b>1 CREDIT</b>
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Hands on activities in the food labs build skills and judgment needed to select and prepare food and develop ideal nutritional habits through a wellness approach. Careers in the Food Service Industry are explored.

<b>CULINARY ARTS</b>	<b>10 -12TH GRADE</b>	<b>1 CREDIT</b>
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**Basic Foods is required to take this course.**

Provides students with a culinary foundation and practical skills necessary to succeed in the food service industry.

**YEARBOOK I & II****11-12TH GRADE****1 CREDIT EA.****Teacher application process and approval is required.**

Creative photographic skills are developed as well as layout design of school events. This course is hands-on and students must be able to efficiently work on computers.

**GENERAL ART****9-12TH GRADE****1 CREDIT**

This course is designed to provide an overview of the Elements and Principles of Art. Included in this course are drawing and painting techniques, crafts, 2-D design and art-related technology skills.

**FINE ARTS I****10-12TH GRADE****1 CREDIT**

This course is designed to provide advanced learning and application of drawing, painting and art related technology skills. Students are required to keep a sketchbook to help with development of drawing and perceptual skills. Students will learn 3-dimensional design, clay techniques and glazing. Students gain experience in hand-building and the pottery wheel.

**Prerequisite: General Art****FINE ARTS II****11-12TH GRADE****1 CREDIT**

Students will progress through art levels with an emphasis on studio production and art-related technology skills. This course is designed to develop a higher-level thinking, in 2-D, 3-D design, art criticism, art history and aesthetics. Students are required to keep a sketchbook and will learn how to plan, develop, and present their own art work. Students will be permitted to select areas of specialization. **Prerequisite: Fine Arts I**

**FINE ARTS III****11-12TH GRADE****1 CREDIT**

Students will progress through art levels with an emphasis on studio production and art-related technology skills. This course is designed to develop a higher-level thinking, in 2-D, 3-D design, art criticism, art history and aesthetics. Students are required to keep a sketchbook and will learn how to plan, develop, and present their own art work. Students will be permitted to select areas of specialization.

**Prerequisite: Fine Arts I & II****HONORS ART****12TH GRADE****1 CREDIT****HN**

This is an individualized and specialized program. Each student will work closely with the instructor to design projects that includes research. High Expectations are placed on projects that are challenging and that demonstrate higher-level thinking. Evaluation is based on achievement of the goals and a portfolio presentation.

**Teacher recommendation is required.****MUSICAL THEATER****9-12TH GRADE****1 CREDIT**

Students will learn performance techniques involved in musical theater, including but not limited to singing, dancing, acting and improvisation. They will study different musicals from different historical periods. Students will be expected to participate in in-class performances.

**MUSICAL THEATER II****10-12TH GRADE****1 CREDIT**

Students will build on skills developed in Musical Theater I. In addition to performance techniques, students will learn aspects of technical theater included but not limited to set, costume, make-up, lighting and sound design. Students will be expected to participate in in-class performances. Musical Theater I is a mandatory prerequisite.

**MIXED CHORUS****9-12 GRADE****1 CREDIT**

This course is open to any student who has an interest in vocal music.

**MADRIGALS****10-12 GRADE****1 CREDIT****HN****Mixed Chorus or Prior Vocal Experience required.**

This is for the student who has a serious interest in choral music and who possesses an extensive background in choral music.

**MUSICIANSHIP I****10-12 GRADE****1 CREDIT****Teacher recommendation is required, must also be enrolled in Band or Chorus**

Musicianship I is a course designed for students who would like to study intermediate topics in music. The primary focus will be music theory to prepare students for taking Advanced Placement Music Theory the following year. The course will also cover elements of music literature and music history.

**MUSIC LAB I****11-12 GRADE****1 CREDIT****Teacher recommendation is required.**

Music Lab 1 is designed for students who seek to pursue new or advanced topics in music. Students will develop an independent project in music to study over the course of the semester/year. Projects may include, but are not limited to, music composition, learning a new instrument, developing solo work for college auditions, etc. Students will be self-guided and will constantly analyze and reflect on their growth throughout the semester/year and must be highly motivated to work independently

**Prerequisite: Musicianship 1****AP MUSIC THEORY 11-12 GRADE 1 CREDIT****HN, WT****Prerequisite: Musicianship 1****Teacher recommendation is required and enrollment in Band or Chorus**

This rigorous course expands on the skills learned in Musicianship I. This course is designed to develop musical skills that will lead to a thorough understanding of music composition and music theory. Students are prepared to take the AP Music Theory Exam when they have completed the course. Students planning to major in music in college may be able to enroll in an advanced music theory course, depending on individual colleges' AP policies.

**MARCHING/CONCERT BAND****9-12 GRADE****1 CREDIT****Approval by teacher required.**

Band is open to any student who demonstrates the necessary instrumental techniques to play the compositions performed.

**CONCERT BAND****9-12 GRADE****1/2 CREDIT****Approval by teacher required.**

This course is open to students during the second half of the year who are not part of the marching band.

**BEGINNING JAZZ****9TH GRADE****1 CREDIT****Approval by teacher required.**

Beginning Jazz techniques are taught and performed.

**JAZZ ENSEMBLE****10-12 GRADE****1 CREDIT****HN****Approval by teacher required.**

The Pop-jazz idiom is explored from the Big Band Era to the present with an emphasis on performance. A demanding quality of work is required.

**PHYSICAL EDUCATION/HEALTH DEPARTMENT****HEALTH****9-10TH GRADE****1/2 CREDIT****RQ**

This semester course will allow students to meet the PA Academic Standards for Health & Safety by engaging in lessons focused on the following categories: concepts of health, healthful living, safety, injury prevention, and physical activity. Students will be learning about physical fitness, how the body works, and establishing an understanding of the dimensions of wellness, disease, drugs /medicines. Other units of instruction are adolescence, first aid & safety (hands on only CPR), hygiene, concussions, relationships, coping with loss, stress management, goal setting, decision-making skills, and lifelong nutrition.

**PHYSICAL EDUCATION****9-12TH GRADE****1/2 CREDIT****RQ**

The semester course includes an Introduction to lifetime sports and fitness activities such as basketball, volleyball, bocce, baseball/softball, golf, tennis, fitness walking, yoga, and Tai Chi. Strength Training, mobility, and skill development are also emphasized. Students have opportunities to learn about Team sports and Individual sports as well.

**DRIVERS EDUCATION****9-12TH GRADE****0 CREDIT**

Legal requirements, physical fitness, safety equipment, driving strategies, defensive driving and buying, maintaining and insuring an automobile are taught.



# Big Beaver Falls Area School District

## ACT 158 PATHWAYS TO GRADUATION

Act 158 of 2018 prescribed multiple pathways for students to meet Pennsylvania's assessment requirement for graduation. The PA Dept. of Education released the criteria for alternate assessments in Spring 2020. These requirements impact the class of 2023 and beyond.

ACT 158 REFERENCE <https://www.education.pa.gov/K-12/Assessment%20and%20Accountability/GraduationRequirements/Act158/Pages/default.aspx>

### PATHWAY 1: KEYSTONE PROFICIENCY

Reach "Proficient" or "Advanced" on the following Keystone Exams: If a student does not score "proficient" or "advanced"

- ☒ **Algebra 1**
- ☒ **Literature**
- ☒ **Biology**

on all three Keystone Exams, they can still meet the state requirements for graduation by meeting the descriptors established in Pathways 2-5.

### PATHWAY 2: KEYSTONE COMPOSITE

Students must earn "proficient" or "advanced" on at least one Keystone Exam, and earn at least a basic score on the other two Keystone exams, and have a composite score of at least 4452.

#### KEYSTONE EXAM SCALE SCORE RANGES

CONTENT AREA	BELOW BASIC	BASIC	PROFICIENT	ADVANCED
Algebra 1	1200-1438	1439-1499	1500-1545	1546-1800
Biology	1200-1459	1460-1499	1500-1548	1549-1800
Literature	1200-1443	1444-1499	1500-1583	1584-1800

### PATHWAY 3: CAREER & TECHNICAL EDUCATION

Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not earn proficiency on the Keystone Exam.

**AND**

Either attain an industry-based competency certification related to the career and technical education (CTE) concentrator's program of study.

**OR**

Demonstrate a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE concentrator's program of study.

### PATHWAY 4: ALTERNATE ASSESSMENT

Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not earn proficiency on the Keystone Exam.

#### OR ONE OF THE FOLLOWING

Attain an established score on an approved alternate assessment for each subject where the student did not earn proficiency. Approved alternate assessments are:

- \* Advanced Placement (AP) Exam 3 (see chart)
- \* Preliminary Scholastic Assessment Test (PSAT) - 970
- \* Scholastic Assessment Test (SAT) - 1010
- \* American College Testing (ACT) - 21
- \* ACT Workkeys: Gold Level
- \* Armed Services Vocational Aptitude Battery (ASVAB) minimum score required to gain admittance to a branch of the armed services in the year the student graduates

#### Algebra Equivalent

- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- AP Computer Science Principles
- AP Statistics
- AP Physics 1: Algebra Based
- AP Physics 2: Algebra Based
- AP Physics C: Electricity & Magnetism
- AP Physics C: Mechanics
- AP Chemistry

#### Literature Equivalent

- AP English Language & Composition
- AP English Literature & Composition

#### Biology Equivalent

- AP Biology
- AP Environmental Science
- AP Chemistry
- AP Physics 1: Algebra Based
- AP Physics 2: Algebra Based
- AP Physics C: Electricity & Magnetism
- AP Physics C: Mechanics

#### OR ONE OF THE FOLLOWING

- 1. Successfully complete a dual enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least proficiency:**
  - Credit-bearing, non-remedial approved concurrent course
  - Aligned to respective Keystone Exams
  - Passing grade on the approved concurrent course
  - High School or college transcript as evidence

**OR**

- 2. Successfully complete a pre-apprenticeship program:**
  - Specific career training designed to prepare a student for an occupation in an approved schedule of related instruction
  - Program must be designed with the Director Apprenticeship and Training Office at the Pennsylvania Department of Labor and Industry
  - Meets all pre-apprenticeship program requirements, per specific industry requirements

**OR**

- 3. Acceptance into an accredited, non-profit, Institute of Higher Education (IHE) 4yr program for college-level coursework**
  - Acceptance letter from an accredited 4-year, nonprofit institution
  - Placement test results showing the student may enroll in college-level coursework
  - College registration from confirming enrollment
  - Local profile of an acceptable high school GPA, attendance record, and SAT/ACT score

## PATHWAY 5: EVIDENCE-BASED (THREE PIECES OF EVIDENCE)

Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not earn proficiency on the Keystone Exam.

### AT LEAST ONE OF THE FOLLOWING

<b>1. Attainment of an established score on an alternate assessment</b>  -SAT Subject Test - 360 -ACT WorkKeys: Silver Level -AP (3) or IB (3) related to student career choice	<b>OR</b>	<b>2. Acceptance into an accredited, non-profit Institute of Higher Learning (IHE) for college-level coursework in an other-than-4yr program</b> -Acceptance Letter -Placement Test Results -College Registration Form -Local profile of acceptable HS GPA, attendance record, CAT/ACT score	<b>OR</b>	<b>3. Attainment of an industry-recognized credential</b>  -Documentation that verifies attainment as defined by the Office of Elementary and Secondary Education	<b>OR</b>	<b>4. Successful completion of a dual enrollment or postsecondary course</b>  -Credit-bearing, non-remedial course -Approved concurrent course aligned to the respective Keystone exams -Passing grade on an approved concurrent course -High school or college transcript as evidence
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### AND UP TO TWO OF THE FOLLOWING

<div>1. Service-learning project completion</div> <div><div>-Must include project learning goal(s), project activities, and the project's contribution to the community</div><div>-Supervised and assessed by an adult; successful completion is verified in writing by the adult supervisor</div><div>-Sufficient duration and intensity to address identified community needs and meet specified project learning goal(s)</div></div>	<div>AND / OR</div>	<div>2. "Proficient" or "Advanced" on a Keystone Exam</div> <div><div>-Scaled score of 1500 or higher on one Keystone Exam</div></div>	<div>AND / OR</div>	<div>3. Letter guaranteeing full-time employment</div>
<div>AND / OR</div>	<div>4. Internship or cooperative education program</div> <div><div>-Industry-based Learning Indicator Guidance: Work-based learning experiences</div></div>	<div>AND / OR</div>	<div>5. Compliance with the National College Athletic Association's (NCAA) core courses for college-bound student athletes</div> <div><div>-Minimum GPA requirements (2.0) in approved NCAA core courses</div></div>	

## ADDITIONAL PATHWAYS

There are two other provisions available in addition to the five pathways described above.

### ONE OF THE FOLLOWING

<b>1. Graduation based on IEP team decisions with regard to academic goals.</b>	<b>OR</b>	<b>2. Superintendent's waiver for students with extenuating circumstances</b>  -The superintendent can grant a waiver to students at the recommendation of the high school principal and the office of education for a student who is unable to meet any of the pathways prior to graduation. For example, a student entering the district from another state during their senior year.
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For additional information, contact the BFHS Guidance department at (724) 843-7470 or see your counselor.

## SPECIAL INFORMATION FOR CAREER AND TECHNOLOGY STUDENTS

The Beaver County Career & Technical Center (CTC) is an off-campus addition offering training in occupational, vocational and technical programs. This training will develop skills and attitudes that may lead to employment or further education after high school.

1. This is a two-year training program during the student's junior and senior year. The students will spend half a day at the Beaver County CTC and the remainder of the day at Beaver Falls High School where they are enrolled in courses required for graduation.
2. The Beaver County CTC student will graduate at his/her home school with a regular Beaver Falls Diploma; additionally, the student will also receive a certificate from the Beaver County CTC, showing hours in training and the skills that have been developed.
3. There are 17 programs offered at the Beaver County CTC. Students of all ability levels are eligible to attend.
4. Applications are required and need to be return to the home school transition coordinator.
5. If a student is accepted to the Beaver County CTC and has to repeat a required course during their junior year, a schedule conflict may arise whereby the student would not be able to attend the Beaver County CTC. In such cases, students must attend summer school to make up any deficient courses prior to attending the Beaver County CTC.
6. Students may be eligible for post-secondary credits through state and private articulation agreements. More information can be accessed through the website at [bcctc.org](http://bcctc.org)
7. The Cosmetology program is the only program at BCCTC that requires a student to begin as a 10<sup>th</sup> grader. This is necessary in order to ensure that students have sufficient time to accumulate the 1250 hours needed for certification as mandated by the Pennsylvania State Board of Cosmetology. **Students who begin the Cosmetology program as a sophomore must meet with their counselor to complete a graduation plan.**
8. All students attending the BCCTC are transported to and from Beaver Falls High School (via school bus).

### BCCTC Course Summaries

#### Automotive Technology

Program provides a systems approach to all aspects of automobile and light truck maintenance and repair. Emphasis is on engine repair/performance, steering and suspension, and brake systems. Seniors may receive the PA Safety Inspection Certification.

##### **Related Occupations**

Service Station Manager    Automotive Salesman  
Automotive Technicians    Service Writer    Parts Counter Technician

#### Business Information Systems

Prepares students to operate/utilize computer software for solving business related problems. The computer lab has the most current software, PC hardware, notebook computers, PDA's, printer, scanners, and digital cameras.

##### **Related Occupations**

Spreadsheet Analyst    Desktop Publisher    Word Proc. Supervisor  
Database Admin.    Multimedia Designer    Website Designer

#### Carpentry

Students will learn layout, fabrication, assembly, installation and repair to structures. Instruction in power tools and hand tools and equipment used in frame construction will be given.

##### **Related Occupations**

Carpenters    Job Supervisors    Cabinet Maker    Roofer

#### Collision Repair Technology

Prepares students for entry level employment in the Auto Body field. Training involves safety, mig-welding, plasma cutting, using torches, body/ fender repair, hand/power tools/jacks.

##### **Related Occupations**

Collision Repair Technician    Adjuster Service Mgmt.  
Sheet Metal Worker    Refinishing/Custom Refinishing

## **Commercial Art**

Students are taught basic skills and development of vocabulary and techniques. This class is geared for advertising artists, computer graphics, air brush, illustration, lettering, drawing, fashion, painting, typography, and desktop publishing.

### ***Related Occupations***

Silkscreen Artist Designer      Multi-Media Animator  
Signage      Illustrators      Cartoonist

## **Cosmetology**

This is a three-year program designed to train students in the beautification of hair, skin, and nails. Facials and massaging are also taught. All salon functions are taught in preparation for State Board Licensing upon graduation.

### ***Related Occupations***

Manicurist      Beauty School Instructor      Hair Stylist  
State Board Inspector      Salon Owner      Vocational Instructor

## **Culinary Arts**

Culinary Arts students learn to cook gourmet meals, wait on tables, and the proper storage of food. They also learn the proper cleaning techniques needed to maintain a safe and sanitary kitchen. The BCCTC has an operational restaurant where students can practice their food service skills.

### ***Related Occupations***

Waiter/Waitress      Food Sales      Chef/Cook  
Kitchen Inspector      Baker

## **Electrical Occupations**

Students receive a broad background in residential, commercial, and industrial wiring. Instruction for proper use of specialty tools is provided.

### ***Related Occupations***

Linesman      Wiring specialist      Residential electrician  
Commercial/Industrial electrician      Cable technicians

## **Graphic Arts & Printing**

In Graphic Arts & Printing students will learn Graphic Design, Photography, Screen Printing, and Offset Printing. They create products like business cards, senior portraits, class t-shirts, and brochures.

### ***Related Occupations***

Graphic Designer      Photographer      Offset Press Operator  
Bindery Work      Screen Printer      Digital Press Operator

## **Greenhouse/Landscaping**

Students grow and sell a variety of plants, flowers, and vegetables in the greenhouse. They also landscape the CTC grounds using tractors and mowers while completing landscaping projects. The FFA Club is available for students to join/participate.

### ***Related Occupations***

Turf chemical application      Floral design      Greenhouse labor  
Garden center sales      Equipment sales      Landscaping/landscape design

## **Health Occupations**

Students completing the Nurse Aide Program are eligible to take the PA Nurse Aide Competency exam listed on the PA Nurse Aide Registry. Students receive 105 hours of clinical experience. They may also take the Home Care Certification Exam.

### ***Related Occupations***

Nurse Aide      Home Care Aide  
Registered Nurse      Dental Assistant      Clinical Technologist LPN

## **HVAC-R**

A technician installs, services, and repairs equipment used to control circulation, moisture and purity of air. **Some of the skills a student will be able to perform are sheet metal fabrication, electrical controls, circuitry, piping, soldering/brazing, gas heating systems, oil heating systems, air conditioning, heat pump technology, psychometrics and blueprint reading.**

### ***Related Occupations***

Heating, Ventilation, Air Conditioning and Refrigeration Mechanic  
Bldg. Maintenance      Appliance Technician      General Maintenance Contractor

## **Logistics & Materials Management**

Provides practical experience in receiving, shipping, handling, recording, and storing of supplies and materials for all departments of the technical school. Distribution, logistics and transportation are taught.

### ***Related Occupations***

Shipping/Receiving	Forklift Operator	Sales Representative	Warehouse Mgr.
Inventory Specialist	Marketing Manager		

## **Machine Tool Technology**

This program includes machine tool programming/operation, trade theory, and blue print reading in a state-of-the-art machine shop. Higher achieving students have been awarded machinists apprenticeships.

### ***Related Occupations***

Assembler/Inspector	Millwright	Tool & Die Maker	Machinist
CNC operator	Machine Repair		

## **Masonry/Bricklaying**

Masons are individuals who lay building materials to construct or repair walls, fireplaces, stone work, concrete, and block and brick structures. This program provides the student with skills and knowledge for entry-level employment.

### ***Related Occupations***

Bricklayer	Stonemason	Cement Finisher	Laborer
Construction Supervisor	Union Bricklayer		

## **Veterinary Assistant**

Upon completion of the program, graduates will be able to work in animal hospitals, animal clinics, kennels, doggie daycare facilities, grooming facilities, mobile vet services, animal shelters, and laboratories. Topics to be covered include basic first aid, medical terminology professional and ethical standards of Veterinary medicine, handling and restraint, animal anatomy, diseases and treatments, and various related studies.

### ***Related Occupations***

Animal Caretaker	Veterinary Hospital Technician	Veterinarian Technician
Veterinary Technologist	Animal Lab Technician	

## **Welding**

Instructs students in all aspects of fusing metal together by the use of heat and fluxing materials. Instruction is given in the use/maintenance/repair of welding equipment. Blue-print reading is also taught throughout the two years.

### ***Related Occupations***

Nuclear	Welding Burner	Ship Builder
Fitter	Ironworker	Pipefitter

## CCBC High School Academies

The Community College of Beaver County offers two dual enrollment programs, Aviation and Health Academies, for students in grades 11-12. Students enrolled in either program will spend part of their school day at CCBC's facilities completing their dual enrollment coursework.



Are you ready to start the exciting journey of becoming an aviation professional? Let your future take flight by joining the CCBC Aviation Academy. Aviation Academy programs include air traffic control, professional pilot, unmanned aerial vehicle and aerospace management. Courses are taught at CCBC's Aviation Sciences Center in Chippewa Township. All courses are taught by CCBC faculty members. Students will take two courses per semester.



The CCBC Health Academy is for high school students in grades 11 and 12 who are interested in careers in nursing, practical nursing, and radiologic technology. Courses are taught at CCBC's Monaca campus by CCBC faculty members.



Are you interested in a high paying STEM career? Enroll in CCBC's STEM Academy to engineer your future. You'll gain hands-on experience in our classrooms and labs. As a CCBC STEM Academy student you will have the opportunity to earn up to 29 college credits while still taking your high school classes. **The Engineering Pathway will be the only one offered for the 2023-2024 school year.**



Do you have a passion for serving and protecting? Are you interested in a career in law enforcement? Take custody of your future by joining the CCBC Criminal Justice Academy. Students who devote 2 years to this program have the opportunity to graduate from high school with 28 credits toward their associate degree.



Do you have a passion for planning, designing, and creating? Are you interested in a career in construction? Enroll in Mascaro Construction Academy and learn specialized project management techniques to oversee the planning, design, and construction of a project, from beginning to end. **This academy will only be in partnership with the BCCTC for 7 credits.**



Do you want to inspire learning? Do you desire to empower lives through a career in teaching? Enroll in the Education Academy to become a future educator. You'll gain hands-on experience in diverse educational settings and learn how to prepare developmentally appropriate lessons and learning environments.

*The cost for all Academies is the responsibility of the student and is based on current CCBC tuition and fee rates. Scholarships and financial aid is available.*

**Contact the guidance office for more details.**