

# FREEDOM AREA HIGH SCHOOL



## PROGRAM OF STUDIES

2024-2025

COURSES ▫ SCHEDULING ▫ REQUIREMENTS ▫ PLANNING ▫ TESTING

[WWW.FREEDOMAREASCHOOLS.ORG](http://WWW.FREEDOMAREASCHOOLS.ORG)

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# **PROGRAM OF STUDIES**

## **2024-2025**

### **INTRODUCTION**

The Freedom Area High School's Program of Studies is designed to provide a guide for students and parents as they plan their course of secondary studies.

A mixture of required courses combined with a variety of electives will provide an academic challenge for all students. The elective course offerings are designed to develop skill and knowledge in a wide variety of interest areas. All students have the opportunity to choose courses that will help them meet their goals in life.

Curricula in the high school consists of coursework for prompting interest in higher education, vocational, or technical employment.

### **NON-DISCRIMINATION**

The Freedom Area School District does not discriminate on the basis of age, race, color, national or ethnic origin, sex, or handicap in employment or in the administration of any of its educational programs and activities in accordance with applicable Federal Statutes and Regulations.

Inquiries should be directed to:

Freedom Area High School Administration  
1190 Bulldog Drive  
Freedom, PA 15042

Telephone: (724) 775 - 7400

## COURSE SELECTION PROCEDURES

1. Each student will participate in a group guidance-scheduling meeting where they will receive grade-specific scheduling information.
  2. Shortly after the group guidance-scheduling meeting, each student currently in grades 9, 10, and 11 will meet with Mr. Bennett and Miss Bennett for their individual advisement.
  3. Students who are currently enrolled in grade 8 will be provided with a course request form. This form must be completed and signed by a parent or guardian and returned to Mr. Bennett.
  4. All students must attempt to schedule for 8 periods of coursework. Students must carry a minimum of 7 credits worth of coursework.
  5. Seniors who are employed may apply for early release from school through the school-to-work program. Applications for the school-to-work program will be reviewed at the start of the school year. Seniors enrolled in the school-to-work program may be released early from school for a maximum of one period a day.
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## SCHEDULE CONFLICTS

During the scheduling process, it may become necessary to limit the number of students taking any one course. If a schedule adjustment is made, each student will receive notification (Elective courses will be filled with the student's choice of alternative electives from his/her course registration form).

There may be situations where certain singular courses are in conflict with other selections. When such a situation exists, students will be presented with a choice of alternatives.

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## ADDING/DROPPING CLASSES

Schedule changes must be completed during the **first ten days**, following conferring with the school counselor. Parental permission may be required to drop certain classes. The counselor must endorse that dropping the class will help the educational welfare of the student. Dropped classes do not affect the GPA and class rank unless the drop occurs after the first 10 days of school. The initial 10 days of the first grading period is the deadline for dropping classes. After that point, an "F" will be assigned **regardless of grade achieved to that date. All grades show on a student transcripts, regardless of grade.**

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## CLASS STANDING

### CLASS STANDING

### CREDITS EARNED

9<sup>th</sup> Grade

Less than 4 Credits Earned

10<sup>th</sup> Grade

Minimum 4 Credits Earned

11<sup>th</sup> Grade

Minimum 12 Credits Earned

12<sup>th</sup> Grade

Graduation Plan

# GRADUATION REQUIREMENTS

Class of 2025-2026		Starting Class of 2027	
English	4	English	4
Social Studies	3	Social Studies	3
Science	3	Science	3
Math	3	Math	3
Arts/Humanities	2	Arts/Humanities	2
Health & Phys. Ed.	2	Health & Phys. Ed.	2
Sec. Computer Applications	1	High School Exploration	1
Communications	1	Communications	1
Personal Finance & Economics	1	Personal Finance & Economics	1
STEM	3	STEM	3
Electives	4	Electives	4
PLT/Graduation Project	1	PLT/Graduation Project	1
<b>Total</b>	<b>28</b>	<b>Total</b>	<b>28</b>

**PLT (PERSONAL LEARNING TIME):** This is a time for teachers to identify and work with students to assist them in reaching their highest potential within the rigorous academic environment at Freedom Area High School. This period also provides an opportunity for teacher collaboration, student activity meetings, and assemblies without disrupting the traditional academic school day. Students receive 0.25 credits each year for a total of 1 credit toward graduation (PLT/Graduation Project).

**ARTS AND HUMANITIES INCLUDE:** Spanish I through IV Fundamentals of Art; Advanced Art; Ceramics; Chorus; Band; Integrated Performing Arts; Psychology/Sociology; Psychology; Conflicts and Conspiracies; True Crime; Western Civ I & II; Secret Societies & Scandals; Print Media Workshop; Broadcast Media Workshop, and Exploring Perspectives: Philosophy and the History of Sports

**STEM INCLUDES:** Any Math or Science class beyond the 3 courses required for each subject, all programs at the Beaver County Career and Technical Center (BCCTC), Fundamentals of Woodworking; Advanced Woodworking; Home Maintenance; Freedom Fortune 500, Robotics, Make and Break, Print Media Workshop, and Broadcast Media Workshop

**WHAT IS STEM?** STEM is an acronym for Science, Technology, Engineering, and Math education. STEM-related coursework will prepare students with the knowledge and confidence to inspire a new generation of individuals seeking to make a difference in the world. The skills obtained from an increased exposure to all elements of STEM education can be applied to any number of careers. Students can become the catalyst to spark their own imagination to strive for innovation and positive advancement and change. Students can rise to the challenges before them as critical thinkers and effective problem solvers.

**GRADUATION PROJECT:** All students are required to *PASS* a graduation project. See page 33 for details.

# GUIDELINES FOR SELECTING YOUR COURSE OF STUDY

- Doing well in all courses selected will allow for the most career choices available after graduation.
- All students should consider taking the most rigorous course of studies that can be completed successfully.
- The “SAT” is a college entrance exam. The **best** way to achieve high scores on the SAT is to take rigorous classes (and do well in them) while in high school.
- Important Spanish Reminders:
  - Students who are planning to attend college should take as many years of Spanish as possible.
  - Some colleges and universities require 2 years of a language for admission.
- Students desiring to study engineering or any other math or science related major in college should pursue advanced math and science courses.

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## HONORS, ADVANCED PLACEMENT, COLLEGE IN HIGH SCHOOL, AND DUAL ENROLLMENT CLASSES:

These courses are helpful in preparing students for the academic rigor of college. Keep in mind that selective universities consider the course of study chosen during high school in their decisions for admission. Selective schools want to see that a prospective student has extended himself or herself academically by taking a selection of the most rigorous courses available at their high school.

It is recommended that students taking these courses should have previous grades in the subject area of an 85% or higher. Students and parents should also consider personal interest in subject area, prior accelerated courses in content area, career goals, standardized assessments, prerequisites, and teacher recommendations when considering these courses. Students choosing these courses should be prepared to accept rigorous academic assignments.

### HONORS CLASSES:

These courses are available to students wishing to accelerate their studies. These courses require in-depth analyses and synthesis of the content along with exemplary study skills. These courses are weighted in determining GPA/class rank. .

The available Honors Classes:

Geometry Honors  
Algebra II Honors  
Pre-Calculus Honors  
Biology I Honors  
Chemistry I Honors  
Analytical Physics  
Print Media Workshop

English 9 Honors  
English 10 Honors  
U.S. History II Honors  
Civics and Government Honors  
World History Honors  
Spanish 4

### ADVANCED PLACEMENT (“AP”) CLASSES :

The College Board is the organization that designs these courses and the associated year-end tests. AP courses are patterned from college freshman courses. By taking these courses, students earn college credits if they score within a specific range on the exam. Required exam scores will vary among Colleges and Universities. AP courses are weighted in determining GPA/class rank. See your student handbook for more information.

## **ADVANCED PLACEMENT (“AP”) CLASSES (CONTINUED):**

The available Advanced Placement Courses are:

Advanced Placement Calculus AB

## **DUAL ENROLLMENT CLASSES:**

While in high school, students can take college classes at local college/university campuses. Miss Bennett coordinates Dual Enrollment courses. The program is designed for juniors and seniors but sophomores may participate with administrative approval. There are associated costs for dual enrollment courses. The student earns both high school and college credit. These courses are considered as elective credit towards high school graduation. Dual enrollment classes are weighted in determining GPA/class rank. See your student handbook for more information.

Freedom Area High School has a partnership with CCBC, Penn State Beaver, Clarion University and Geneva College.

Please go to Freedom Area High School’s Guidance Page and find the “Dual Enrollment” section for all the detailed information regarding CCBC, Penn State Beaver, Clarion University and Geneva College’s Dual Enrollment Programs.

Students who earned college credit in any of the post-secondary schools are responsible for requesting their own transcript. You will need to complete this in June after you graduate from Freedom. The links for each school’s “Transcript Request” is also on the Guidance Webpage in the “Dual Enrollment” section.

## **COLLEGE IN HIGH SCHOOL (CHS) CLASSES:**

These courses are similar to dual enrollment but they are college-level courses taught in our high school. The student earns both high school and college credit. The cost is \$60 per college credit for CCBC CHS classes. The cost is \$75 per college credit for PITT CHS classes. Students who earned college credit are responsible for requesting/purchasing their own transcript. Please go to CCBC’s website ([www.ccbc.edu/highschool](http://www.ccbc.edu/highschool)) and/or PITT’s website ([chs.pitt.edu](http://chs.pitt.edu)) for more information.

College in High School Courses are weighted in determining GPA/class rank. See your student handbook for more information.

The available College in High School Courses are:

CCBC – English Composition	PITT - Biology
CCBC – Concepts in Literature	PITT - Chemistry
CCBC – Public Speaking	PITT - Psychology
CCBC – American Literature	
CCBC – Western Civilization I	
CCBC – Western Civilization II	

Detailed information regarding College in the High School is on the Guidance Webpage in the “College in the High School Program” section.

## **PREREQUISITE FOR CHS CLASSES:**

Students must demonstrate adequate academic preparation and the ability to benefit from advanced scholastic coursework. If necessary, administrative approval in certain situations.

For PITT registration, Freedom CHS teachers will assist students to register during the first week of school.

For CCBC registration, students should apply online and return the registration form to Guidance by May 1st. If interested, students must:

1. New students need to complete the “Application for Enrollment Form”.
2. Current and new students must complete a Registration Form.

## **CHS/DUAL ENROLLMENT TRANSFER OF COLLEGE CREDITS:**

College in High School classes may or may not be accepted as transfer credits by colleges that Freedom graduates plan to attend. Generally speaking, most colleges will accept College in High School credits. The 30-Credit Transfer Framework is an agreement between participating colleges to pre-approve that credits will indeed transfer. Please go to [www.PAcollegetransfer.com](http://www.PAcollegetransfer.com) for more information. Students/Parents/Guardians are ultimately responsible to research if Dual Enrollment and College in High School credits will transfer to their school of choice. To assure that Penn State Beaver, Geneva, CCBC or PennWest Clarion Dual Enrollment credits will transfer, students and parents should contact the Admissions Department of their prospective postsecondary schools.

## **FREEDOM CYBER PROGRAM:**

The Freedom Area High School Cyber School allows students to progress with their education in a variety of ways. Students can be full-time cyber students, enjoy a blended learning environment, work on credit recovery courses, or accelerate their learning while taking traditional courses. A Freedom High School Cyber student will acquire their diploma from Freedom after completing all graduation requirements. The system currently used by the cyber school is called Apex Learning and can be accessed by the student 24 hours a day, 7 days a week. Parents receive daily progress and grade updates in their email to see how their child is progressing. Our cyber school allows for students to be flexible with their schedules while taking part in 21st century online learning. To find out more information about our cyber school, please contact our Cyber Coordinator.

Justin Turpin, Cyber Coordinator  
(724) 775-7400 ext. 506

## **NAVIANCE CAREER PORTFOLIO PROGRAM:**

In conjunction with Chapter 339 Comprehensive Guidance Plan requirements for Career Portfolios, students will be required to add information into their Naviance Career Portfolio Program to satisfy the state of PA career artifacts. Mr. Ron Kelm oversees the Naviance Program.

Mr. Ron Kelm  
College and Career Readiness Coordinator  
(724) 775-7400 x 507

# NCAA ACADEMIC STANDARDS FOR THE STUDENT ATHLETE

Student, if you think you have the ability to play Division 1 or Division 2 college athletics, talk to your coach or guidance counselor about applying to the NCAA eligibility center.

- To be eligible to play at the Division 1 or Division 2 levels, high school students must graduate high school with a set of specific “core courses,” SAT scores, and GPA. It is the student’s responsibility to make sure they are enrolled in enough “core courses” to be eligible to play college sports.
- Students who intend to participate in Division 1 or Division 2 college-level athletics should go online and review all eligibility requirements of the NCAA.
- Seniors in high school must complete their registration online at the Clearinghouse: <https://web3.ncaa.org/ecwrs/>
- There is a fee to register. Fee waivers are available for students who receive free or reduced lunch at the high school. Contact Mr. Bennett in the Guidance Office.
- While online, view or print a copy of the “NCAA Guide for the College – Bound –Student Athlete.” You will find this under “Resources” at the website.
- Students who will be registering at the eligibility center should sign up to take the SAT exam in the spring of their junior year. Online registration for the SAT is available at [collegeboard.com](http://collegeboard.com). During registration for the SAT, students should send an “Additional Report” of their score to the Clearinghouse—this is free to do when you register for the SAT. The additional report code for the NCAA is 9999.
- The school code for Freedom Area High School is 391-455.
- NCAA eligibility to participate in college athletics is not determined until after high school graduation.
- **The following “core courses” at Freedom are not approved (denied) for meeting NCAA eligibility requirements:** Communications, Pre-Algebra, Print Media Workshop and Financial Literacy..
- **To view a complete list of Freedom’s approved NCAA courses, go to <https://web3.ncaa.org/hsportal/exec/loginAction> and enter this CEEB code: 391455.** Also, look for the **Resource** tab on this link, which has additional brochures/information concerning NCAA eligibility.

# PSAT/SAT/AP/KEYSTONE TESTING GUIDELINES

## PSAT (PRELIMINARY SAT):

- The PSAT is a practice test for the SAT given only once a year in October at Freedom Area High School.
- Students who plan to attend college should take the PSAT both their sophomore and junior years. Students who take the PSAT as a junior may qualify for scholarships sponsored by the National Merit Scholarship Program.
- College-bound sophomores and juniors are encouraged to take the PSAT exam. The fee is around \$18. Students who receive free or reduced lunch are eligible for a fee waiver.
- Individual student PSAT scores are not recorded on student's permanent transcript.
- Students can register in the Guidance Office with Mrs. Young.
- More information about the PSAT is available at [www.collegeboard.org](http://www.collegeboard.org)

## SAT (REASONING TEST):

- The SAT is a standardized test for college admissions that assesses critical reading, math, and writing.
- Students must register for the SAT and find related information at <http://sat.collegeboard.org/register>.
- The cost is around \$60. Fee waivers are available from the Guidance Office for students who receive free or reduced lunch.
- Students should first take the SAT in the spring of their junior year (after PSAT).
- The SAT is offered almost monthly from October to June at local high schools.
- Colleges and universities often require the SAT for admission. Community colleges and trade schools often do not require the SAT for admission.
- Individual student SAT scores are recorded on the student's permanent transcript.
- Freedom Area High School Code (CEEB Code): 391-455
- Freedom Area High School Test Center Code (for SAT Testing): 39-280

## ADVANCED PLACEMENT (AP):

- The College Board designs these courses and the year-end tests. Courses are taught at Freedom, and students take AP exams in May. Students who score well on the exams may be offered college credit at the college/university they plan to attend.
- AP courses and course grades are included on the student's permanent transcript.
- The actual AP test score is not included on a student's permanent record.
- More information about the AP Program is available at [www.collegeboard.com](http://www.collegeboard.com)
- The cost is around \$90 for the exam. Students receiving free or reduced lunch will have their fees reduced by the College Board.

## KEYSTONE EXAMS:

The Pennsylvania State Assessments are known as the Keystone Exams. These exams are designed as end of course assessments. Currently, there are three Keystones exams: Biology, Algebra 1, and Literature. Contact the Guidance Office if you have additional questions. Beginning with the class of 2023, demonstrating proficiency in the Keystone Exams will be a requirement for graduation. The PDE has established alternate pathways to proficiency for students who are unable to achieve proficient scores. Visit the PDE website for more details: [education.pa.gov](http://education.pa.gov).

**Note: Students who are currently enrolled in Algebra I, Biology I (or Honors), and English 10 (or Honors) will take the corresponding Keystone Exam for the first time in the spring (May). Students who score less than Proficient in any of the three subject areas will be required to re-test in those areas. Students will re-test in December of the following year. A second re-test in May will be required if the student has not achieved a Proficient score on the first re-test.**

# COURSE SELECTIONS CHART BY DEPARTMENT

## ENGLISH/LANGUAGE ARTS

English 9  
English 9 Honors  
English 10  
English 10 Honors  
Communications  
English 11  
English 12  
Creative Writing  
Modern Novels  
CHS – English Composition (.5 credit)  
CHS – Concepts in Literature(.5 credit)  
CHS – American Literature (.5 credit)  
CHS – Public Speaking (.5 credit)  
Print Media Workshop (1.5 credit)

## SOCIAL STUDIES

U.S. History II  
U.S. History II Honors  
Civics & Government  
Civics & Government Honors  
World History  
World History Honors  
CHS – Western Civilization I (0.5 credit)  
CHS – Western Civilization II (0.5 credit)  
Secret Societies & Scandals 25-26  
Conflicts and Conspiracies 26-27  
True Crime 24-25  
Psychology/Sociology  
CHS - Psychology  
Exploring Perspectives: Philosophy and the History of Sports

## SCIENCE

Biology I/Lab  
Biology I/Lab Honors  
Modern Applications of Biology  
CHS Biology  
Analytical Physics  
Physics II  
Physics III  
Chemistry I  
Chemistry I Honors  
CHS - Chemistry  
Human Anatomy and Physiology

## MATH

Pre-Algebra  
Algebra I  
Geometry  
Geometry Honors  
Algebra II  
Algebra II Honors  
Pre-Calculus  
Pre-Calculus Honors  
Calculus  
Advanced Placement Calculus AB  
Applied Mathematics

## TECHNOLOGIES

Broadcast Media Workshop  
Freedom Fortune 500  
Robotics  
Make and Break  
Fundamentals of Woodworking  
Advanced Woodworking  
Home Maintenance

## SPANISH

Spanish I  
Spanish II  
Spanish III  
Spanish IV

## VISUAL AND PERFORMING ARTS

Fundamentals of Art  
Advanced Art  
Ceramics  
Integrated Performing Arts  
Chorus  
Band (1.5 credit)  
Band Units:  
    Drill Team      (0.5 credit)  
    Flags           (0.5 credit)  
    Front Unit     (0.5 credit)  
    Majorettes     (0.5 credit)

## PHYSICAL EDUCATION, HEALTH, AND CAREER EDUCATION

Boys' Phys Ed/Health (grade 9)  
Girls' Phys Ed/Health (grade 9)  
Physical Education (grades 10-12)  
Weight Lifting, Conditioning, and Leadership  
School-to-Career/Transition Program

## BEAVER COUNTY CAREER AND TECHNICAL CENTER (3 CREDITS)

Automotive Technology  
Business Information Systems  
Carpentry  
Collision Repair Technology  
Commercial Art  
Cosmetology  
Culinary Arts  
Electrical Occupations  
Graphic Arts & Printing  
Greenhouse/Landscaping  
Health Occupations  
HVAC-R  
Logistics & Materials Management  
Machine Tool Technology  
Masonry/Bricklaying  
Veterinary Assistant  
Welding

## ADDITIONAL REQUIREMENTS

High School Exploration  
Personal Finance & Economics

## **FOUR-YEAR PLANNING CHART**

<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
English	English	English	English
Social Studies	Social Studies	Social Studies	Personal Finance & Economics
Math	Math	Math	
Science	Science	Science	
Physical Education/ Health	One additional credit in Physical Education – taken during any of these grades		
High School Exploration	Three additional credits in STEM – taken during any of these grades		
Two credits of Humanities – taken during any of these grades			
	Communications		
<i>Empty boxes: Combination of electives, humanities, BCCTC, dual enrollment, etc.</i>			



# ENGLISH/LANGUAGE ARTS

Our English Department introduces you to a variety of offerings to develop skills as effective communicators. Standards of grammar, the writing process, reading for comprehension, appreciation and understanding of literature, speaking, and project-centered activities are provided.

## COLLEGE IN HIGH SCHOOL COURSES (CHS):

Several College in High School classes are offered at Freedom. Books will be provided by our school district. Grades in these courses will count toward cumulative GPA and Class Rank. These courses will be weighted for GPA/Rank at the rate or level of Advanced Placement courses. There are associated tuition costs for students taking these courses. Students may enroll in CHS classes and choose not to pay tuition.

Juniors and seniors who enroll in College in High School English or History courses must complete 2 semesters of work to earn the required high school credit for graduation. Students who receive a failing grade during semester one will not be permitted to continue with the CHS course work during the second semester and, therefore, will be enrolled in a full-credit English or History course for the remainder of the school year.

## ENGLISH 9 (003)

1 CREDIT

PREREQUISITE: GRADE 9

This course is designed to meet the needs of those students who require daily instruction and assistance in the development of basic grammar skills. Literature is approached through the introduction of short stories, plays, poems, essays, articles, and biographical sketches. Creative and expository writing skills are emphasized as well as oral communication skills. Vocabulary development is incorporated in the literature and writing units.

## ENGLISH 9 HONORS (004)

1 CREDIT

PREREQUISITE: SUMMER READING & WRITING ASSIGNMENTS AND MUST BE IN "HIGH ACADEMIC" STANDING AS INDICATED BY TEACHER RECOMMENDATION, CONTENT AREA GRADES AND STANDARDIZED TEST SCORES.

This course is designed to meet the needs of students who demonstrate the ability to work independently and at a rigorous pace. This course is designed to meet the needs of those students who require daily instruction and assistance in the development of basic grammar skills. Literature is approached through the introduction of short stories, plays, poems, essays, articles, and biographical sketches. Creative and expository writing skills are emphasized as well as oral communication skills. Vocabulary development is incorporated in the literature and writing units.

Recognizing purpose and tone in various literary genres

- Building vocabulary; specific, appropriate word choice
- Writing strong sentences
- Writing in response to literature
- Writing in response to open-ended prompts and quotes
- Interpreting literature
- Identifying and analyzing the basic elements of analysis in fiction and non-fiction genres

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## ENGLISH 10 (005)

1 CREDIT

PREREQUISITE: GRADE 10

This is a course designed to further improve the reading, writing, speaking, and listening skills developed/enriched in English 9. In this survey course, students will continue to develop their reading, writing, speaking, and listening skills through the exploration of fiction and non-fiction texts, as well as review and refine expository and persuasive writing. Through fiction and non-fiction pieces, students will examine, analyze, and discuss while developing critical thinking skills. A significant focus will be placed on reading literary non-fiction, persuasive non-fiction, informational text, and fiction, as well as independent reading. Students in this course will take the Keystone Literature exam in the spring.

## ENGLISH (CONTINUED)

### ENGLISH 10 HONORS (006)

1 CREDIT

**PREREQUISITE:** GRADE 10, SUMMER READING & WRITING ASSIGNMENTS

This course is designed to meet the needs of students who demonstrate the ability to work independently and at a rigorous pace. This is a course designed for motivated students with strong reading, writing, speaking, and listening skills. Students will continue to develop their reading, writing, speaking, and listening skills through the explorations of novels, short stories, essays, drama, and non-fiction in this accelerated course. Through the fiction and non-fiction pieces, students will examine, analyze, and discuss while developing critical thinking skills. A significant focus will be placed on reading literary non-fiction, persuasive non-fiction, informational text, and fiction, as well as independent reading. The Keystone Literature exam will be placed at the end of this 10<sup>th</sup> grade year.

*GPA Weighting: This course is weighted in determining GPA*

### COMMUNICATIONS (020)

1 CREDIT

**PREREQUISITE:** GRADE 10

This course is designed as a mandatory course supplemental to the traditional 10<sup>th</sup> grade English course. It is a concentrated presentation of all basic forms of communication: critical, creative, and technical writing; interpersonal communication, public speaking and presentation; media literacy and journalism; and technology-integrated communication. The intent is to prepare all sophomores not only for upper-level language arts courses, but also for an eventual transition into a post-graduate working world in which they will function capably and confidently. Students enrolled in this course will come to consider their multiple roles as (1) the successful participants in daily interpersonal communication, (2) competent presenters to groups large and small, (3) the consumers of mass media, and (4) the informed targets of marketing and advertising campaigns. In the spirit of cooperative learning and project based education, students will be required to participate in meaningful long-term comprehensive projects in which they demonstrate proficiency in writing, speaking, and mastering technological tools.

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*

### ENGLISH 11 CP (024)

1 CREDIT

**PREREQUISITE:** GRADE 11

This course is designed to meet the needs of those students who require daily instruction and assistance in the development of basic grammar and writing skills. Focus of this course is on having students learn real life English skills, which will be essential upon graduation. Literature is also approached in the form of short stories, drama, and essays. Vocabulary and oral communication are also incorporated to help develop speaking and listening skills.

### ENGLISH 12 CP (027)

1 CREDIT

**PREREQUISITE:** GRADE 12

This course introduces students to a study of basic areas of English, including literature, composition, and speaking. The course includes a comprehensive study of media, short stories, novels, public speaking, and writing. Practical application of these skills as they relate to the workplace are emphasized.

### CREATIVE WRITING (048)

1 CREDIT

**PREREQUISITE:** GRADES 11-12

This year-long course focuses on writing for publication in two genres: poetry and fiction. The purpose of this class is to encourage students to cultivate the habits, attitudes, and flexibility of a professional writer in a professional writing community. Students will practice writing like a reader and reading like a writer. Students will be expected to enter final products into professional and/or student contests, confer with the instructor, participate in writer response groups, read contemporary published authors, keep and regularly write in a writer's notebook, and experiment with and revise writing routinely.

## ENGLISH (CONTINUED)

### **CHS – ENGLISH COMPOSITION (033)**

**0.5 CREDIT FHS/3 CREDITS CCBC**

**PREREQUISITE:** GRADES 11-12

English Composition is a college-level freshman writing course. College-bound students who enroll in this class will have the opportunity to earn 3 college credits, which they will be able to transfer to a college or university. This course focuses strictly on developing and honing students' writing skills while following the writing process of brainstorming, drafting, revising, editing, and publishing. During the course of the semester, students will write college admission, scholarship, autobiographical, process, descriptive, compare and contrast, and cause and effect essays, some of which incorporate research in the MLA format. Students will also be responsible for reading numerous essays to incite critical thinking and produce ideas for their own writing. Students interested in this course should be prepared to revise and edit multiple drafts of their own work, peer edit for others, and present their work to the class.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **CHS – CONCEPTS IN LITERATURE (034)**

**0.5 CREDIT FHS/3 CREDITS CCBC**

**PREREQUISITE:** GRADES 11-12, CCBC ENGLISH COMPOSITION

This course introduces students to the three major forms of literary expression: fiction, poetry, and drama. Significant works from each form will be analyzed to reveal creative techniques, how they represent an author's time, and how they reflect today's human condition. This course is a Dual Enrollment course taught at Freedom Area High School. Upon successful completion of this course, students will receive college credit through the Community College of Beaver County (CCBC) and they will also receive the required English Credit at Freedom Area High School. This course is considered the accelerated or honors-level English option for students in the 11<sup>th</sup> and 12<sup>th</sup> grades.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **CHS – AMERICAN LITERATURE (036)**

**0.5 CREDIT FHS/3 CREDITS CCBC**

**PREREQUISITE:** GRADE 12, CCBC ENGLISH COMPOSITION AND CCBC CONCEPTS IN LITERATURE

American Literature is a college-level freshman literature course. Students will encounter American literature from the Colonial to the Contemporary Periods, with an emphasis on Modern and Contemporary texts, that reflects the American experience of both mainstream and emerging cultures, represents major American literary movements, genres, writers, and works, and explores such issues as the human experience, the American political arena, and common American ideologies.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **CHS – PUBLIC SPEAKING (037)**

**0.5 CREDIT FHS/3 CREDITS CCBC**

**PREREQUISITE:** GRADE 12

The emphasis is on speech preparation and delivery with a variety of speaking experiences designed to improve the speaker's capability and apply theory to correct speech practices. Upon completion of this course, students will be able to prepare and deliver extemporaneously a series of short speeches to inform, to persuade, and to entertain an audience of classroom peers. Students will apply textual principles of research, organization, and delivery to the preparation and presentation of assigned classroom speeches. Students will demonstrate techniques of critical listening and thoughtful attention as public speaking audience members. Students will evaluate constructively the content and delivery of peer speeches through written commentaries and/or discussion. Students will describe the roles of leaders and participants in problem solving groups, such as committees and in team presentations such as symposiums and panel discussions.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

**PRINT MEDIA WORKSHOP****(062)****1.5 CREDIT****PREREQUISITE:** GRADES 11-12, SUMMER JOURNALISM CAMP, APPLICATION/INTERVIEW; GRADE 10 BY RECOMMENDATION

*May be used a maximum of one time to count for an English credit (not for English 10), and be used a maximum of one time to satisfy a STEM credit. PMW will not satisfy English and STEM in the same school year.*

Students enrolled in this course will be responsible for creating both the school newspaper and the student yearbook. The class will study effective print journalism and photojournalism in depth, after which students will work collaboratively as writers, reporters, photographers, designers, and editors to generate high-quality publications on deadline. The course will also prepare students for entry into the business world as they interact with local business owners during part of a year-long project on developing and maintaining advertising sales to fund these publications.

This course requires an after-school commitment of at least once per week, as well as occasional work outside of school selling advertising space to local businesses. Anyone enrolled in this course should be an effective writer, a conscientious team player, personally motivated, and highly responsible. Grading will be based on each student's daily contribution, as well as their effectiveness in collaborating to create a quality finished product on deadline.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*

**MODERN NOVELS****(067)****1 CREDIT****PREREQUISITE:** GRADES 10, 11, 12

*Modern Novels, an elective course for the college-bound student, is designed to survey modern literature specific to the 21st century. Content will focus on the study of major themes and ideas in modern literature, with emphasis on historical, social, political, and cultural influences these contemporary novels play in our society. 8-10 novels will be read throughout the course, including one which will be chosen individually.*

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*

**LANGUAGE ARTS FLOW CHART - FREEDOM AREA HIGH SCHOOL**

**9<sup>TH</sup> GRADE (SELECT BETWEEN ENGLISH 9 AND ENGLISH 9 HONORS)**

- English 9
- English 9 Honors

**10<sup>TH</sup> GRADE (SELECT BETWEEN ENGLISH 10 AND ENGLISH 10 HONORS)**

- English 10
- English 10 Honors
- Communications

**11<sup>TH</sup> GRADE (SELECT 1 CREDIT OF COURSEWORK MINIMALLY)**

- English 11
- Creative Writing
- Print Media Workshop
- CHS - English Composition (0.5 credit)
- CHS - Concepts in Literature (0.5 credit)

**12<sup>TH</sup> GRADE (SELECT 1 CREDIT OF COURSEWORK MINIMALLY). SELECTIONS MUST BE DIFFERENT THAN GRADE 11.**

- English 12
- Creative Writing
- Print Media Workshop
- CHS - English Composition (0.5 credit)
- CHS - Concepts in Literature (0.5 credit)
- CHS - American Literature (0.5 credit)
- CHS - Public Speaking (0.5 credit)

*Print Media Workshop: May be used a maximum of one time to count for an English credit (not for English 10), and be used a maximum of one time to satisfy a STEM credit. PMW will not satisfy English and STEM in the same school year.*



# SOCIAL STUDIES

Our Social Studies Program provides opportunities for our students that makes students more aware of themselves, others, and the world around them. A complete overview of our past in the United States and globally is the main thrust of the curriculum. Both content-oriented curriculum and project-centered assignments help students develop communication skills needed at the high school and college level, as well as in the workplace.

## COLLEGE IN HIGH SCHOOL COURSES (CHS):

Several College in High School classes are offered at Freedom. Books will be provided by our school district. Grades in these courses will count toward cumulative GPA and Class Rank. These courses will be weighted for GPA/Rank at the rate or level of Advanced Placement courses. There are associated tuition costs for students taking these courses. Students may enroll in CHS classes and choose not to pay tuition.

### **U.S. HISTORY II (1865-1945) (101)**

**1 CREDIT**

**PREREQUISITE: GRADE 9**

This course examines U.S. historical events from 1865 until 1945, focusing on the significance and consequences of each major event. Eighty years of our history that has helped to create the United States as we know it today is covered from the aftermath of the Civil war until the end of World War II. Important events studied include: Reconstruction, the westward movement, the rise of big business, the new industrial age, the US involvement in world affairs, World War I, the Great Depression, and World War II.

### **U.S. HISTORY II HONORS (1865-1945) (102)**

**1 CREDIT**

**PREREQUISITE: GRADE 9**

This accelerated, year-long course focuses on the historical events from 1865 to 1945 in the United States. A thorough study of the significance and consequences of each major historical event is studied, discussed and debated. Important events studied will include Reconstruction, the westward movement, the industrial age, government and big business, the U.S. involvement in world affairs, World War I, the years between the wars, and World War II. Extra readings, research projects, discussions, and debates will be used to instill an understanding of each historical event. Students will gain an understanding of how these historical events have impacted life in the United States today. Students will be expected to use classroom and independent study skills in order to evaluate and discuss the significance of these events.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **CIVICS & GOVERNMENT (104)**

**1 CREDIT**

**PREREQUISITE: GRADE 10**

This course will be a comprehensive, analytical, and evaluative study of the U.S. government, its history, purpose, processes, foundations, and principles; the roles of citizens, organizations and competing interests in the political process; interpretations, application, elasticity of crucial documents, and law; political philosophy; and arguments against/for alternative forms of government. Students will be confronted with the mastery of this content to become politically aware, informed, proactive, and competent adults who understand government and are equipped to voice and make informed opinions and decisions. Content mastery will be assessed in a multifaceted variety of homework, quizzes, tests, and projects. All Pennsylvania standards for Economics will be addressed within the AP United States History Course.

## SOCIAL STUDIES (CONTINUED)

### **CIVICS & GOVERNMENT HONORS (105)**

**1 CREDIT**

**PREREQUISITE:** GRADE 10, SUMMER ASSIGNMENT

This accelerated year-long course will be a comprehensive analytical and evaluative study of the U.S. government, its history, purpose, processes, foundations, and principles; the roles of citizens, organizations and competing interests in the political process; interpretations, application, elasticity of crucial documents, and law; political philosophy; and arguments against/for alternative forms of government. Students will be confronted with the mastery of this content to become politically aware, informed, proactive, and competent adults who understand government and are equipped to voice and make informed opinions and decisions. Content mastery will be assessed in a multifaceted variety of homework, quizzes, tests, and projects. Extra readings, research projects, discussions, and debates will be used to instill an understanding of how these components of government impact life in the United States today. Students will be expected to use classroom and independent study skills in order to evaluate and discuss the significance of these events.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **WORLD HISTORY (110)**

**1 CREDIT**

**PREREQUISITE:** GRADE 11

This year-long course focuses on the identification, study, and analysis of relevant issues within a region. Geographical setting and resource availability delineates each region. Regional study focuses on history, social structure, government, economic issues, and religious implications. This course provides students with the basic tools, vocabulary, and information necessary to investigate world cultures. Additionally, problem-solving strategies are applied to a variety of conflicts that exists within the regional units. Student assessments are based upon individual and group projects, problem solving projects, and tests.

### **WORLD HISTORY HONORS (111)**

**1 CREDIT**

**PREREQUISITE:** RECCOMENDED U.S. HISTORY HONORS

This accelerated, year-long course focuses on the identification, study, and analysis of relevant issues within a region. Geographical setting and resource availability delineates each region. Students will gain a deep understanding of global relationships and the impact these relationships have on the United States. A thorough regional study focuses on history, social structure, government, economic issues, and religious implications. Students will be expected to use classroom tools and independent study skills to investigate complicated conflicts and to examine the differing cultures within regional units. Additionally, problem solving strategies will be applied to the variety of conflicts that exists within regional units. Extra readings, research projects, debates, and discussions will allow students to further investigate our globally interdependent world. Student assessments are based upon individual and group projects, problem solving projects, and tests.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **CHS – WESTERN CIVILIZATION I (132)**

**0.5 CREDIT FHS/3 CREDITS CCBC**

**PREREQUISITE:** GRADE 11-12

This is a survey course in the civilization of the western world which is concerned with the development of that civilization from Paleolithic man to 1500. Political and cultural changes are emphasized. This course will begin with the earliest civilizations and the emergence of written language. It will explore how civilizations spread from the Middle East to Europe. This course will examine the causes and effects of cultural diffusion, as well as the similarities and differences between civilizations. It will move into the Middle Ages and end with the Renaissance.

Students who receive a failing grade in Western Civilization I will not be permitted to continue to Western Civilization II.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## SOCIAL STUDIES (CONTINUED)

### **CHS – WESTERN CIVILIZATION II (133)**

**0.5 CREDIT FHS/ 3 CREDITS CCBC**

**PREREQUISITE:** GRADE 11-12, WESTERN CIVILIZATION I

This is a survey course in the civilization of the western world which is concerned with the development of that civilization from 1500 to present. Political and cultural changes are emphasized. This course will begin with the Reformation and move into the Age of Absolutism in Europe. It will explore the various revolutions that emerged, both political and social. The course will address imperialism and the impact it had leading to World War I and World War II. It will move into the Cold War era and end with present day.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **EXPLORING PERSPECTIVES: PHILOSOPHY AND THE HISTORY OF SPORTS (120)**

**1 CREDIT**

**PREREQUISITE:** GRADE 11-12I

*Welcome to “Exploring Perspectives: Philosophy and the History of Sports,” an elective high school course designed to unravel the intricate threads of human thought and culture. This dynamic course spans two semesters, each offering a distinct exploration into the discipline of philosophy and sports history. In the first semester, students will engage in a profound philosophical journey, delving into the complexities of epistemology, metaphysics, ethics, and logic. Emphasis is placed on fostering critical thinking skills as students grapple with questions that resist simplistic answers, ultimately appreciating the nuances and ambiguity of life.*

*Transitioning to the second semester, the course shifts focus to Sports History, providing a unique, student-friendly lens through which to understand the evolution of human society and culture. Students will delve into the historical significance of sports, analyze their cultural impact, and investigate the evolution of rules and games. Additionally, the course explores the intimate relationship between sports, individual identity, and collective belonging.*

*The course aims to equip students with critical thinking skills, encouraging them to navigate the complexities of the world with a broader perspective. Join us on this intellectual journey as we unravel the mysteries of philosophy and trace the captivating history of sports.*

### **CONFLICTS AND CONSPIRACIES (129)**

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

This course examines various forms of conflict (genocide, organized crime, government coups) with the aim of understanding why these conflicts took place in order to help us identify conflicts occurring today and the reasons for them. Students will also predict whether similar events will continue to occur, as well as formulate steps that can be taken to prevent conflict from happening in the future. Students will critique human behavior by analyzing primary and secondary documents. This course will also investigate various conspiracy theories that exist today with the goal of understanding why they exist, why people believe them, and determining the probability of these conspiracies being true. Students will also form their own hypotheses on these theories.

*Note: This course will be offered again in the 2026-2027 school year (3 year rotation).*

### **SECRET SOCIETIES & SCANDALS (126)**

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

This course examines various secret societies (Peoples Temple, Branch Davidians, Heaven’s Gate, etc.) and scandals (scandals in the world of politics, religion, entertainment, business & society) with the aim of understanding why. Why were these societies formed? What tactics are used? Why do people join these societies? In regards to scandals, why do these crimes and cover-ups continue to happen? Understanding why will help us identify warning signs today. Students will develop their own ideas on what they believe leads people to do such things, as well as formulate steps that can be taken to try and prevent these issues from continuing in the future. Students will critique human behavior by analyzing primary and secondary documents. They will use literature, journalistic materials, and other forms of media in order for them to fully engage with the material and draw well-reasoned conclusions on the topics.

*Note: This course will be offered in the 2025-2026 school year (3 year rotation)*

## SOCIAL STUDIES (CONTINUED)

### PSYCHOLOGY/SOCIOLOGY (134)

1 CREDIT

PREREQUISITE: GRADES 11-12

This course is designed to provide a broad and general overview into the study of psychology and sociology. Topics to be touched upon include neurology, sensations, perceptions, consciousness, memory, learning styles, personality, psychological disorders, cultural diversity/conformity/adaptation, social control, social classes, economics, politics and education. Students will emerge from this course with an increased awareness of the broad range of topics covered under the umbrella of psychology and sociology.

Quarters 1 & 2 will cover Psychology

Quarters 3 & 4 will cover Sociology

Topics that will be addressed in Psychology:

1. Intro to Psychology, Body & Mind
2. Learning & Cognition
3. Personality
4. Health & Adjustment

Topics that will be addressed in Sociology:

1. Culture & Social Structure
2. The Individual in Society
3. Social Inequality
4. Social Institutions

### TRUE CRIME (127)

1 CREDIT

PREREQUISITE: GRADES 10-12

This course examines various criminals (serial killers, assassins) and crimes (heists, cold cases) with the aim of understanding why. Why did they do what they did? Why do these crimes continue to happen? Understanding why will help us identify warning signs today. Students will develop their own ideas on what they believe leads people to do such things, as well as formulate steps that can be taken to try and prevent these crimes from happening in the future.

*Note: This course will be offered in the 2024-2025 school year (3 year rotation).*

### CHS PSYCHOLOGY (135)

1 CREDIT FHS/4 CREDITS PITT

**PREREQUISITE:** GRADE 11-12, AT LEAST ONE COMPLETE HONORS COURSE IN SOCIAL STUDIES AND ENGLISH, OR TEACHER RECOMMENDATION

CHS Psychology is a challenging course offered in the junior or senior year. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They will also learn about the ethics and methods psychologists use within their practice. Topics to be touched upon include neurology, sensations, perceptions, consciousness, memory, learning styles, personality testing, psychological disorders and methods of treating those disorders, social psychology, and many others. Students will emerge from this course with an increased awareness of the broad range of topics covered under the umbrella of psychology. It will be taught in a manner dictated by the University of Pittsburgh and will adhere to all academic integrity and rigor standards imposed by the University.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## SOCIAL STUDIES (CONTINUED)

### SOCIAL STUDIES FLOW CHART - FREEDOM AREA HIGH SCHOOL

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#### 9<sup>TH</sup> GRADE

- U.S. History II
- U.S. History II Honors

#### 10<sup>TH</sup> GRADE

- Civics & Government
- Civics & Government Honors
- Conflict & Conspiracies (2026-2027 school year)
- True Crime (Available 2024-2025 school year)
- Secret Societies & Scandals (Available 2025-2026 school year)

#### 11<sup>TH</sup> GRADE

- World History
- World History Honors
- Conflicts and Conspiracies (Available 2026-2027 school year)
- True Crime (2024-2025 school year)
- Secret Societies & Scandals (Available 2025-2026 school year)
- Exploring Perspectives: Philosophy and the History of Sports
- Psychology/Sociology
- CHS Psychology
- CHS Western Civilization I (Semester course)
- CHS Western Civilization II (Semester course)

#### 12<sup>TH</sup> GRADE

- Conflicts and Conspiracies (Available 2026-2027 school year)
- True Crime (2024-2025 school year)
- Secret Societies & Scandals (Available 2025-2026 school year)
- Exploring Perspectives: Philosophy and the History of Sports
- Psychology/Sociology
- CHS Psychology
- CHS Western Civilization I (semester course)
- CHS Western Civilization II (semester course)

Required courses for graduation: U.S. History II (or HON), Civics & Government (or HON), World History (or HON)



# SCIENCE

This rigorous academic science curriculum challenges each student with the basics in biology, physics, and chemistry. Students receive daily lessons rich in team building skills, problem solving experiences, and critical thinking exercises.

\*\*Students must complete three units of study covering at least one unit in either Chemistry or Physics.

Several College in High School classes are offered at Freedom. Books will be provided by our school district. Grades in these courses will count toward cumulative GPA and Class Rank. These courses will be weighted for GPA/Rank at the rate or level of Advanced Placement courses. There are associated tuition costs for students taking these courses. Students may enroll in CHS classes and choose not to pay tuition

## **BIOLOGY I/LAB (203)**

**1 CREDIT**

**PREREQUISITE:** GRADE 9

Biology I is a lab-based course that covers the fundamentals of modern molecular biology. This course is designed for all students and provides 60 double-period labs throughout the school year. These labs are the core of the course and consist of traditional laboratory activities as well as state-of-the-art computer based interfacing laboratory equipment. Students receive a biology education that is a balanced in both process and content. Biology I serves as a strong foundation for students who will take chemistry, physics, and other advanced science courses.

*Students will take the Biology Keystone Exam at the end of this course.*

## **BIOLOGY I/LAB HONORS (204)**

**1 CREDIT**

**PREREQUISITE:** GRADE 9, TEACHER RECOMMENDATION, 80% OR HIGHER IN GRADE 8 SCIENCE

Biology I Honors is a course that covers the fundamentals of modern biology. Emphasis will be placed on the continued development of science process skills and laboratory skills, including the use of software and hardware for data collection and analysis, as well as problem solving skills. In addition to the topics covered in Biology I, special topics will be chosen by students to further increase their understanding of biological concepts. Students taking this course are expected to work at a more independent and accelerated pace. Students who take Biology I Honors will take the Keystone exam in Biology at the end of the course.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

*Students will take the Biology Keystone Exam at the end of this course.*

## **MODERN APPLICATIONS OF BIOLOGY (208)**

**1 CREDIT**

**PREREQUISITE:** BIOLOGY I AND CHEMISTRY I OR ANALYTICAL PHYSICS

This course is designed as an extension to Biology 1/Honors Biology to explore the modern biological applications that are utilized in different STEM fields. The purpose of this course is to see how biology is all around us and can be applied to our daily lives. Topics will include, but are not limited to: Forensic Biology, Genetic Engineering and Biotechnology, Marine and Stream Ecology, and Astronomy. This course will consist of project and laboratory explorations to allow students to apply their knowledge and develop a deeper understanding of daily phenomena.

## **CHS BIOLOGY (206)**

**1 CREDIT FHS/3 CREDITS PITT**

**PREREQUISITE:** HIGH SCHOOL BIOLOGY AND CHEMISTRY

The goal of this course, Preparation for Biology, is to provide students with a foundation in biology at the college level. This course focuses on a subset of major topics covered in the first two Foundations of Biology I and II courses through the University of Pittsburgh. Topics include, a review of chemistry as it applies to biology, the structure and function of macromolecules, the basic structure of cells, energy and cellular respiration, introduction to genetics and molecular biology, and development. Preparation for Biology delves deeper and applies chemistry concepts to achieve a more complete understanding of biology. This, combined with practicing critical thinking skills, and primary literature and data analysis, prepares students for the rigors of the Foundations of Biology series at the University of Pittsburgh. Upon successful completion of the course, students will receive three college credits to be applied toward their total number of credits required for graduation. Grading is calculated by performance on labs, quizzes, and tests created by the University of Pittsburgh including the cumulative final.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## SCIENCE (CONTINUED)

### **ANALYTICAL PHYSICS** (209)

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

Analytical Physics engages students in the fundamental aspects of science using physics content as a vehicle. Students will investigate nature as young scientists by openly inquiring about motion; the forces that cause that motion; and the underlying laws, theories and ways of thinking that support that scientific thinking. Students will be expected to actively participate in all aspects of science, from designing and enacting protocols to analyzing and communicating the findings. Students will be expected to read a popular science book of their choice, conduct an original research project, and use mathematics as a tool for describing nature's behavior. Students will need to be proficient in Algebra as well as using the trigonometric functions of sine, cosine, and tangent. Topics covered include nature of science, kinematics, Newton's Laws, vector mechanics, gravity, The Copernican Revolution planetary motion and models, and momentum. All students are encouraged to take Analytical Physics.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **PHYSICS II** (211)

**1 CREDIT**

**PREREQUISITE:** ANALYTICAL PHYSICS

Physics II is a continuation of Analytical Physics, and the course will be conducted in a similar fashion (see the course description for Analytical Physics). Topics covered include impulse & momentum, work and energy, energy and the environment, Einstein's Special Relativity, rotational motion, static electricity, field theory, current electricity, and electronics. Students, again, will be expected to read a popular science book of their choice, conduct an original research project, and apply their understanding of science developed in Analytical Physics. All students are encouraged to take Physics II after completing Analytical Physics.

### **PHYSICS III – ELECTRICITY AND MAGNETISM** (212)

**1 CREDIT**

**PREREQUISITE:** ANALYTICAL PHYSICS, PHYSICS II (CAN BE TAKEN CONCURRENTLY)

Physic III is a continuation of Analytical Physics and Physics II, but focuses on the nature of scientific knowledge through the guise of electricity and magnetism. Because of its unique and foundational nature for all sciences, the study of electricity will incorporate the philosophy of science to help bridge experimental results with theoretical constructs. The course will develop and utilize several different models to gain a full understanding of practical electricity as well as field theory,

magnetism, electronics, and circuitry. Since most scientific instruments rely on voltage to make a reading, it behooves any student entering science or engineering to enroll in the course.

### **CHEMISTRY I** (215)

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

This class is designed to meet the needs of those students who are planning on attending college, but who are not necessarily majoring in one of the science fields and is designed to give the students a general understanding of the chemical and physical interactions that occur in and around their environment. This course will give each of the students a comprehensive description of those relationships which they are likely to experience in real-world situations by incorporating practical (hands-on) laboratory, technical (computer application), and theoretical (classroom) methods to illustrate these interactions. The combination of laboratory work, course work, and computer application will be used to help each student recognize, define, and apply these relationships. Any student who signs up for this course should have (but not require) a good background in laboratory (safety and measuring) skills, mathematical (Algebra) skills, and demonstrate an interest in their environment.

### **CHEMISTRY I HONORS** (216)

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12, HONORS BIOLOGY RECOMMENDED, TEACHER RECOMMENDATION

The Honors Chemistry I course is designed so that students can obtain a strong understanding of a number of different content areas that they are likely to experience in a college chemistry classroom. The purpose is to meet the needs of those students who are planning on attending college and who are majoring in one of the science fields. This course will examine the same type of relationships that are uncovered in the Chemistry I class; however, there is a more extensive examination of the relationships and a greater demand for laboratory investigations with computer integrations. The focus of this course will be centered on the environment and work load that students will experience in a college freshman, chemistry class. Students who demonstrate a strong interest in chemistry, have strong academic skills, possess good laboratory practices, can perform simple computer functions, and have a serious interest in majoring in a science field are strongly encouraged to take this course.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## SCIENCE (CONTINUED)

### **CHS CHEMISTRY (240)**

**1 CREDIT FHS/4CREDITS PITT**

**PREREQUISITE:** HONORS CHEMISTRY OR TEACHER RECCOMENDATION

This is the first half of a two-term introduction to general chemistry at the college level through the University of Pittsburgh. Upon successful completion of the course, students would receive four college credits toward the first semester of an introductory chemistry course. Topics covered include stoichiometry and chemical reactions, atomic and molecular structure, periodic trends, thermochemistry and states of matter including solutions and gas laws. Problem solving and laboratory experiences are a functional part of this course. Laboratory exercises are conducted at the University of Pittsburgh by the Director of Freshman Laboratories and his staff of graduate teaching assistants. Students will be transported to the campus for the duration of a school day three times throughout the year for a total of five labs and a cumulative final. Grading is calculated by performance on labs, quizzes, and tests created by the University of Pittsburgh including the cumulative final. Students seeking to receive college credit will be required to pay the per credit fees imposed by the University of Pittsburgh.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

### **HUMAN ANATOMY AND PHYSIOLOGY (220)**

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12, CHEMISTRY AND BIOLOGY (FINISHED OR CONCURRENTLY)

A course designed to explore both the gross and microscopic realm of the human body. The course will begin with a review of fundamental cellular biology, focused mainly on the relationship between structure and function with a continuation to organism organization. Body systems, such as the nervous, skeletal, muscular, and cardiovascular systems, will be studied with a particular focus on physiological processes, adaptations and disease. Additionally, the digestive system will be reviewed as it pertains to enzymes, energy and metabolism. Basic organic chemistry will be integrated relevant to nutrition and dietary topics. A final unit will be conducted that allows students to explore career opportunities in the medical field. A basic understanding of both chemistry and biology is encouraged.



# MATHEMATICS

Our mathematics department is committed to teaching every student at a pace that meets his/her needs. We offer classes ranging from Algebra through Advanced Placement Calculus. Teachers utilize technology in the form of scientific calculators, graphing calculators, and computers to enhance instruction.

<b>MATHEMATICS FLOW CHART</b>	
Math 8 (Grade 8)	Algebra I (Grade 8)
Algebra I	Geometry (or Honors)
Geometry (or Honors)	Algebra II (or Honors)
Algebra II (or Honors)	Pre-Calculus (or Honors)
Pre-Calculus (or Honors)	Calculus (or Advanced Placement)

- The two most common mathematics progressions are listed above. Slight variations to these progressions are also available. Please contact the high school guidance office if you have any questions.
- Some students will be enrolled in Pre-Algebra in their 9th grade year depending on their readiness to complete Algebra I successfully.

## **PRE-ALGEBRA (306)**

**1 CREDIT**

**PREREQUISITE: ADMINISTRATIVE APPROVAL**

Our Pre-Algebra course is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course emphasizes the concepts necessary to be successful in Algebra I and Geometry. The course helps students develop good mathematical study skills and learning strategies.

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*

## **ALGEBRA I (307)**

**1 CREDIT**

**PREREQUISITE: PRE-ALGEBRA**

Algebra 1 topics include recognizing and developing patterns using tables, graphs and equations. In addition, students will explore operations on algebraic expressions, apply mathematical properties to algebraic equations. Students will solve problems using equations, graphs and tables to investigate linear relationships. Technology will be used to introduce and expand upon the areas of study listed above. Use of computers and graphing calculators will be incorporated into each module.

## **GEOMETRY (311)**

**1 CREDIT**

**PREREQUISITE: ALGEBRA I**

Geometry is the second step in the mathematics program. This course provides students with the opportunity to apply concepts from plane and solid geometry to everyday life. Evaluating expressions and solving equations are a significant part of this course. Reasoning skills are developed as the instructor makes clear connections between algebra and geometry.

## **GEOMETRY HONORS (320)**

**1 CREDIT**

**PREREQUISITE: ALGEBRA I**

Honors Geometry is the second step in the college preparatory mathematics program. Students will develop and use concepts from plane and solid geometry—including properties and relationships of points, lines, surfaces, and solids. Problem solving and reasoning skills will be developed as well as connections between algebra and geometry. Equation solving and formula manipulation are an important part of the course. This course is designed for students who have demonstrated a high degree of success in Algebra I.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

# MATHEMATICS (CONTINUED)

## **ALGEBRA II** (325)

**1 CREDIT**

**PREREQUISITE:** GEOMETRY

Algebra II is the third step in the academic mathematics program. This course is designed to extend many of the topics and concepts developed in Algebra I as well as to develop new concepts to help prepare students for either Statistics/Financial Literacy or Pre-Calculus.

## **ALGEBRA II HONORS** (327)

**1 CREDIT**

**PREREQUISITE:** GEOMETRY

Algebra II Honors is the third step in the college preparatory mathematics program. It is designed for students who have demonstrated advanced math skills and accelerated progress in Algebra I. This course will extend many of the topics and concepts developed in Algebra I as well as to develop new concepts to help prepare students for Pre-Calculus.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## **PRE-CALCULUS** (340)

**1 CREDIT**

**PREREQUISITE:** ALGEBRA II AND GEOMETRY

Pre-Calculus is a course designed to prepare students for the study of college-level mathematics, especially calculus. This course includes topics from traditional advanced algebra (functions, polynomials, complex numbers, exponential and logarithmic functions), geometry, advanced graphing, and trigonometry.

## **PRE-CALCULUS HONORS** (345)

**1 CREDIT**

**PREREQUISITE:** ALGEBRA II AND GEOMETRY

This course is designed to streamline students into a faster-paced curriculum that prepares students for AP Calculus. This course includes topics from traditional advanced algebra (functions, polynomials, complex numbers, exponential and logarithmic functions), coordinate and analytical geometry with advanced graphing, numerical and analytical trigonometry and statistics. Students who plan on taking AP Calculus are encouraged to take Pre-Calculus Honors, although students may elect AP Calculus after completing Calculus.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## **CALCULUS** (350)

**1 CREDIT**

**PREREQUISITE:** PRE-CALCULUS

Calculus is designed to cover the major topics of calculus and to prepare students for a college level study of calculus. Major topics include functions, limits, derivatives, and integration. A graphing calculator is used extensively in this course. Students enrolled in this course should have already successfully completed pre-calculus.

## **ADVANCED PLACEMENT CALCULUS AB** (360)

**1 CREDIT**

**PREREQUISITE:** PRE-CALCULUS

This advanced placement course is designed specifically for the college-bound student interested in choosing a field with heavy math or science concentration. It is a fast-paced, rigorous study of the concepts, methods, and theories associated with calculus. A graphing calculator is used throughout the course. Topics include limits, derivatives, integrals and their applications. At the conclusion of the course, students are expected to take the Advanced Placement Exam (at their own expense) to obtain college credit for their work in calculus.

*GPA Weighting: This course is weighted in determining GPA and class rank.*

## **APPLIED MATHEMATICS** (365)

**1 CREDIT**

**PREREQUISITE:** GRADE 12 OR CONCURRENT WITH 3RD MATH

Applied Mathematics will focus on number sense and algebraic concepts in their applications through projects and real world problems. We will focus on earning a solid foundation in the math needed for a variety of technical and vocational trades, such as allied health, electrical trades, plumbing, construction, and many more.

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*



# TECHNOLOGIES

Our Technology Department is constantly evolving as technologies continue to advance. We offer a variety of programs that will enhance skills in computer programming, computer gaming design to graphic design, business, and current events in technology. Students will have a creative role in these courses aligning with the technology standards.

## **BROADCAST MEDIA WORKSHOP (064)**

**1 CREDIT**

**PREREQUISITE:** GRADES 9-12, OR TEACHER RECOMMENDATION

Broadcast Media Workshop is a fast-paced, deadline-driven course offered to sophomores, juniors, and seniors with strong oral and written communication and digital media skills. Students will gather coverage requests, compose short-form news, feature, sports, and entertainment segments; conduct interviews; develop visual projects through Adobe Photoshop, Final Cut Pro X, iMovie, Wirecast Pro, Adobe After Effects, Canva Adobe Audition and other software; edit written and visual content; set up, operate, and troubleshoot audio/visual equipment, and hold themselves and their classmates accountable for producing professional, high-quality, broadcast media.

## **ROBOTICS (516)**

**1.5 CREDIT**

**PREREQUISITE:** GRADES 9-12

Do you want to be part of a team that designs and builds a 15 pound battle bot? Students will be welding, machining, wiring, and programming a robot that has been designed by the class. This is a unique, hands-on experience that allows students to discover the possibilities of a career in the manufacturing sector, technology, engineering, or STEM fields. Students in this class will be participating in the BOTS IQ competition.

**This course requires a commitment to after school collaboration with related community businesses/programs.**

## **FREEDOM FORTUNE 500 (511)**

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

Design and sell your custom-made creations in this #Business, #Marketing, and #Graphic Design class. Learn to develop digital designs with Photopea and Adobe, create physical products with computer-numerical-controlled (CNC) machines, manage online content, advertise, and keep track of profits and losses.

## **MAKE & BREAK (513)**

**1 CREDIT**

**PREREQUISITE:** GRADE 9 ONLY

As the name suggests, you will make and break many projects while solving twelve #Design and #Engineering challenges. For example, you will design and make a concrete and steel wall and measure its strength by breaking it with a bowling ball. You will design and make a 3D printed wing, test and measure lift, and then push it to its breaking point. You will design and make a protective phone case to hold a simulated glass phone and then test its limits by breaking it.

## TECHNOLOGIES (CONTINUED)

### **FUNDAMENTALS OF WOODWORKING (732)**

**1 CREDIT**

**PREREQUISITE:** GRADES 10-12

Basic hand tool technology as well as machine woodwork will be introduced. Individual and group use of various equipment will be stressed. Safety will be an important part of this class. Students will work on individual projects.

### **ADVANCED WOODWORKING (734)**

**1 CREDIT**

**PREREQUISITE:** GRADES 11-12

Advanced Woodworking continues to develop the skills of Fundamentals of Woodworking. Students will continue to develop projects requiring the use of advanced specifications, details, calculations, drawings and tools. \*This course may be taken in both 11th and 12th grades.

### **HOME MAINTENANCE (739)**

**1 CREDIT**

**PREREQUISITE:** GRADES 9-12

This course is designed to increase the student's ability and understanding of how to build, install, and repair many of the common materials found in a residential structure. Students will gain a better understanding and use of the procedures, tools, materials, safety, costs, designs, building codes, troubleshooting, and resources as they pertain to constructing and maintaining a residential building. Units covered will include: cement work, framing, roofing, basic wiring, plumbing, toilet repair, faucets, doors, windows, drywall, painting, stairs, insulation, home safety, and yard maintenance.



# SPANISH

The goal of the Spanish Department is to prepare students for a role in an increasingly diverse global society. Learning a different language and culture promotes understanding and tolerance of those whose values are different from ours. Students planning to attend college should take as many years of at least one world language as possible. Four years of at least one world language is preferable.

## **SPANISH I (402)**

**1 CREDIT**  
**PREREQUISITE: NONE**

Spanish I is an introduction to the Hispanic culture, customs, and peoples. Students learn basic vocabulary and grammar as well as gain a better understanding of this foreign culture. Students spend a lot of time in conversation with the teacher and other students. The class focuses on increasing vocabulary and acquiring more communication skills. Grammar is learned in a communicative manner.

## **SPANISH II (404)**

**1 CREDIT**  
**PREREQUISITE: SPANISH I**

Spanish II builds on the content learned in Spanish I. Students spend a lot of time in conversation with the teacher and other students. The class focuses on increasing vocabulary and acquiring more communication skills. Grammar is learned in a communicative manner. The Hispanic culture is discussed throughout the year. This class helps students to continue moving toward the “Intermediate-low” level on the ACTFL oral proficiency scale. It is highly important for students to be successful in Spanish I before going to Spanish II.

## **SPANISH III (406)**

**1 CREDIT**  
**PREREQUISITE: SPANISH II**

Students continue to increase their vocabulary and communications skills. The class focus is on communication; this involves speaking, writing, reading, and listening. Grammar is learned in a communicative manner. The Hispanic culture will be discussed throughout the year. This class helps students to continue moving toward the “Intermediate-Low” level on the ACTFL oral proficiency scale. It is extremely important for students to be successful in Spanish II before going on to Spanish III.

## **SPANISH IV (408)**

**1 CREDIT**  
**PREREQUISITE: SPANISH III**

This course allows students to strengthen their command of vocabulary, grammar and communication skills. Students continue to speak Spanish in practical, real-life situations. Many Spanish IV students surpass the “Intermediate-Low” level on the ACTFL oral proficiency scale in this course. Students who do well in Spanish IV often test out of some college foreign language classes.

*GPA Weighting: This course is weighted in determining GPA and class rank.*



# VISUAL AND PERFORMING ARTS

The Art Department explores current day issues as well as historical aspects of art while it teaches the techniques and use of art mediums to students. The Performing Arts Department allows students to express themselves in a manner that encourages self-confidence. Students write and perform many pieces, and they are urged to interpret pieces known to all.

## **FUNDAMENTALS OF ART (800)**

**1 CREDIT**  
**PREREQUISITE: NONE**

The course continues the study of drawing and painting skills introduced in Intro to Art on a more advanced level. Students will re-explore the mediums and processes experienced previously as well as the use of newer and more advanced techniques and tools. The historical study of artists and art movements enhances the creative and technical activities of this course, with a strong concentration on originality of all student artwork.

## **ADVANCED ART (804)**

**1 CREDIT**  
**PREREQUISITE: FUNDAMENTALS OF ART**

This course enables students to apply the acquired drawing, painting, and design skills they have acquired in Intro to Art and Fundamentals of Art to their artwork in Advanced Art. Artwork is assigned on a less stringent basis, allowing students to be more flexible in their choice of subject, medium, and techniques. Experimentation in the field of three-dimensional art is more in-depth. \*This course may be taken in both 11th and 12th grades.

## **CERAMICS (805)**

**1 CREDIT**  
**PREREQUISITE: FUNDAMENTALS OF ART**

In Ceramics, students will learn about the history, science, application, and technique of pottery. Students will learn how a kiln works, including how to run it, the kiln's parts, the firing process, etc. Once students have an understanding of a kiln, they will learn the science of clay and the history of ceramics. As students work through the processes other cultures have used, they will apply their practices to our building of clay. Students will work through the most primitive techniques up to present day advances. \*This course may be taken in both 11th and 12th grades.

## VISUAL AND PERFORMING ARTS (CONTINUED)

### **INTEGRATED PERFORMING ARTS (060)**

**1 CREDIT**

**PREREQUISITE: NONE**

This course is designed for students who wish to increase their communication skills and develop intensive expertise in all aspects of theater craft. The focus of the class is character creation and development, along with studies of the basics of acting, directing, staging, properties, sets, lighting, sounds, makeup, and costumes. This class will mount various productions throughout the year; these will be for both fellow students and the public and will take place both on and off campus. The goal of the class is for each student to continue to increase their own skills while coming together as a class to create full-length productions that are rich in all features of theater. While much time will still be spent working one-on-one with the director, students will also spend time leading their peers through the evaluations and learning as they study acting, directing, set creation, and all other facets of production development.

During the latter half of the year, the class will spend time focusing on various competition opportunities, including the Shakespeare Monologue and Scene Festival, the Freedom Forensics and Debate Tournament, and the Poetry Out Loud Competition. The aim of this course is to increase student awareness and appreciation of the rich art form of the theater, while simultaneously offering the student the opportunity to enrich his or her communication arts skills. Ultimately, it gives students the chance to test their performance and communication skills in the most challenging forum available.

*NCAA: This course is not approved as a core course for collegiate athletic eligibility.*

### **CHORUS (821)**

**1 CREDIT**

**PREREQUISITE: GRADES 9-12**

Chorus brings students together in grades 9, 10, 11, & 12 to collaborate and create a musical performing ensemble. Participation in school-related concerts is a part of the grade for this course. Students must have a desire to sing and make music with their classmates. In chorus, there is a team-oriented atmosphere that emphasizes the importance of each person's contribution to the group. Chorus forms a sense of belonging that is unique to participation in a musical ensemble. No audition is required.

### **BAND (831)**

**1.5 CREDIT**

**PREREQUISITE: BAND CAMP**

Marching band and concert band collaborate, forming a proficient musical group. Band members are required to appear at sporting events, concerts, parades, as well as community and civics events. This involvement adds a great deal of color and life to the entire community. Participation in these events is part of this grade.

### **BAND UNITS (837)**

**0.5 CREDIT**

**PREREQUISITE: AUDITION AND BAND CAMP**

This unit participates in parades, football games, and festivals. The students use pompoms and dance routines to enhance the band. Practice sessions throughout the summer are required. Students who enroll in Band Units will earn .5 credits. The grade earned will be a "P" (Pass). The expectations for Band Units include satisfactory attendance and participation in summer band camp, after school practices, football games, and selected band events.

# WELLNESS, FITNESS, AND CAREER EDUCATION

The vision of this curriculum is to aid the student in establishing personal wellness. This selection of courses is designed to facilitate the opportunity for students to learn how to lead a healthy lifestyle and be productive members of society.

## **HEALTH/PHYSICAL EDUCATION M(598)/F(599)**

**1 CREDIT**

**PREREQUISITE: GRADE 9**

A required course for the 9<sup>th</sup> grade student, this class is a combination of health concepts and physical education activities. This course instructs on a variety of school board-approved health topics in the classroom and emphasizes application of fitness knowledge in a gym/fitness center setting.

## **WEIGHT LIFTING, CONDITIONING, AND LEADERSHIP (605)**

**1 CREDIT**

**PREREQUISITE: GRADES 10-12**

An elective that requires successful completion of Health/Physical Education, as well as approval from a Physical Education teacher, the course is designed to challenge students mentally, socially, and physically. Each student will be expected to complete high intensity workouts as well as create and implement physical fitness plans for real world use. Each student is expected to give back to the community by participating in community service events hosted by Freedom Area High School. The components of this class will challenge students to become productive members who value a physically fit lifestyle.

## **PHYSICAL EDUCATION (602)**

**1 CREDIT**

**PREREQUISITE: GRADES 10-12**

A one-time required course for the 10<sup>th</sup>-12<sup>th</sup> grade student, this course provides the opportunity to develop a pattern of life-enhancing and self-rewarding experiences. The goal of this course is to empower students to take responsibility of their well-being and help them appreciate the importance of a healthy lifestyle. Students are challenged to participate in a variety of fitness/game activities and experiment with both traditional and non-traditional forms of exercise.

## **SCHOOL-TO-CAREER (554)**

**CREDIT VARIES**

**PREREQUISITE: GRADE 12, STUDENT SELECTION PROCESS**

Transition is defined as those goals that will assist students in making the transition from school to gainful employment after graduation. Other postsecondary options are explored as well. The school district provides annual transition activities for all eligible students involving the areas of vocational aptitude, assessment, and exploration as well as a survey of career interests. Transition planning occurs with regular education teachers, special education teachers, guidance counselors, administration, and career enhancement specialists.

# ADDITIONAL REQUIREMENTS

## **HIGH SCHOOL EXPLORATION (558)**

**1 CREDIT**

**PREREQUISITE: GRADE 9**

High School Exporation is a required course for students in 9th grade. This course rotation will teach skills essential for success at the high school and beyond, while exploring different electives offered at Freedom High School. Each course will span over a 9-week period. The course rotation will include Freshman Fundamentals, Intro to Art, Intro to Woodshop, and Intro to Digital Media Design.

### **Freshman Fundamentals (9-Weeks)**

This course is designed to help students develop and master the skills necessary to succeed in high school. Activities are designed to help freshmen transition from a middle school setting, prepare for the increased academic rigor of high school, and meet the social and emotional challenges they may encounter over the ensuing four years. Topics include academic study skills and resources, methods of time management, the development of a soft skill set, and social-emotional well-being practices.

### **Intro to Art (9 Weeks)**

Intro to Art picks up where students left off in art at the Middle School. Students learn the basic understanding of the Elements of Art while exploring a variety of mediums. Students will gain knowledge of art history, art techniques, and craftsmanship.

### **Intro to Woodshop (9-Weeks)**

This course will focus on safely using basic power tools like the drill press, band saw, planer and more. Students also learn to use hand tools such as a cordless drill, circular saw, miter saw and everyone's favorite... the tape measure! Each student will have the opportunity to make one to two great projects. This course will introduce students to the various kinds of woods and products used in industry. Correct and safe use of tools and equipment is emphasized.

### **Intro to Digital Media Design (9-Weeks)**

This course is designed for students to become familiar with the computer technologies of the high school and industry. Students will work through layers of the program to develop knowledge of the tools and capabilities of the software used at the high school. Students will gain confidence in their ability to retouch and restore photographs while using the Adobe

Suite of tools to develop graphic design and video production skills. Additionally, students will gain a better understanding of bitmap and vector and how they apply to digital projects. Finally, students will gain familiarity with natural language programming through Python. Students will have an opportunity to create simple automation projects for personal use and discuss larger ramifications of automation. This course is a primer for future study and skill usage in additional courses in the technology department.

## **PERSONAL FINANCE & ECONOMICS (559)**

**1 CREDIT**

**PREREQUISITE: GRADE 12**

A required course for students in 12th grade that focuses on financial and economic behavior. Students will gain an understanding of the need for cash to undertake worthy investments, and to identify investments worth undertaking. What models do we use to identify such investments? How can I make my money work for me? What habits should I establish to enable myself to invest when and where I want at the level I choose? Students will discuss stocks, bonds, stock markets, as well as valuation models of investments, firms, and securities. Students will plan monthly budgets and understand the use of credit and credit cards. Large asset acquisition planning including investments in people, places, and things such as college, home(s), and depreciable assets including cars.



# GRADUATION PROJECT

The graduation project is comprised of five components.

## **OVERVIEW**

The Freedom Area School District Graduation Project is a culmination of many different activities and artifacts that align with the district's core values.

The process will begin when students enter the high school their freshman year. Students will collect artifacts throughout their high school experience. Using their artifacts and experiences, students will be able to measure their growth as they progress throughout their high school career. At the end of their junior year, students will start completing activities that help prepare them for life after high school, contribute to the improvement of the community around them, and gain a deeper understanding of the local governance in their own neighborhood.

At the conclusion of their senior year, students will submit their portfolio and present their Graduation Project to a committee of Freedom Area Educators. In order for a student to receive a passing score, they must receive a 70% or higher on both the portfolio and presentation. If a student fails to complete a section of the project or has artifacts missing, the project will be deemed incomplete. If a student receives an incomplete or doesn't achieve a passing score, they will have an opportunity to make the proper adjustments and present to District Administrators prior to graduation. After earning a passing score on their Graduation Project, students will receive 1 Credit, in accordance with the District's Graduation Requirements. Students who receive a passing score on their Graduation Project will receive a "Pass" on their transcript, while students who earn a passing score on their Graduation Project and the Self-Development Pathway will receive a "Pass with Distinction" on their transcript.

## **SECTION I: CAREER PATHWAY EXPLANATION**

The Career Pathway section of the graduation project is designed to help the student to gain firsthand experience in their expectations for life after high school. As students each have different plans for after high school, there are two options for this section of the graduation project. Students should choose the option that best demonstrates their plans for after high school:

### **Option A - Post-Secondary Education (for the student planning to attend a formal education institution upon graduation)**

- Attend two post-secondary institution tours
  - Complete the tour form with proper signatures
  - Photographic evidence necessary in presentation - students must be next to a building or with a sign that is unique to the institution
- Job shadow and interview one individual in the field that you plan to pursue
  - Must be at least eight hours in length (one entire, consecutive shift)
  - Students are not permitted to receive any form of compensation for their time during the job shadow
  - Students are not permitted to shadow a relative
  - Students are only permitted to leave school to complete their job shadow if approved by administration
  - Students are responsible for their own transportation to and from the work site
  - Students must compile evidence of job shadow experience (photograph, video, etc.) for their presentation
  - Students must complete a thank you letter to the individual with whom their experience takes place. A template can be found on Google Classroom and at the end of the Appendix in of this packet.
  - The job shadow proposal form is assigned to you on Google Classroom. It must be submitted and approved at least 3 days prior to the start of the job shadow.
  - Upon completion of the job shadow, the student must conduct an interview of the person that they observed (See FAHS Job Shadow Interview Form in the Resources folder on Google Classroom)
  - An evaluation form must be completed by the professional that the student shadows - found in Appendix
- Complete two scholarship applications
  - Make a copy of each completed scholarship for the portfolio and presentation
  - Refer to Financial Aid Information/Scholarships page

## GRADUATION PROJECT (CONTINUED)

- Complete a financial aid form and attend financial aid night at FAHS
  - Students must attend financial awareness night at Freedom Area High School to help in completing the application
  - If a student is unable to attend this night, an appointment must be made with a high school counselor to receive this information
  - Student must complete Financial Aid Night Form as evidence they attended the event.
- Complete a cover letter and resume

### **Option B - Workforce (for the student planning to enter the workforce immediately upon graduation)**

- Job shadow and interview two individuals in the field that you plan to pursue
  - Must be at least eight hours in length (one entire, consecutive shift)
  - Students are not permitted to receive any form of compensation for their time during the job shadow
  - Students are not permitted to shadow a relative
  - Students are only permitted to leave school to complete their job shadow if approved by administration
  - Students are responsible for their own transportation to and from the work site
  - Students must compile evidence of job shadow experience (photograph, video, etc.) for their presentation
  - Students must complete a thank you letter to the individual with whom their experience takes place. A template can be found on Google Classroom.
  - The job shadow proposal form is assigned to you on Google Classroom. It must be submitted and approved at least 3 days prior to the start of the job shadow.
  - Upon completion of the job shadow, the student must conduct an interview of the person that they observed (See FAHS Job Shadow Interview Form in the Resources folder on Google Classroom)
  - An evaluation form must be completed by the professional that the student shadows.
- Create a professional portfolio
  - Must include an updated resume and cover letter that displays interest in a particular job field
  - Must include at least three letters of recommendation (maximum of 1 from FAHS teacher)
  - Must include photographic evidence of career skill (projects, evaluations/observation forms, awards, etc.)
  - Completed job information form (that has been assigned to you through Google Classroom) for your chosen field

### **SECTION II: SERVICE**

Community service projects are planned, organized, voluntary efforts designed to address a problem or need in the community. To be meaningful, community service projects must address a real need or problem found within the community.

#### **Option A: Community Service**

The community service project that a student chooses to do should reflect his/her personal interests and skills. Students are required to perform a minimum of 20 volunteer hours with a non-profit organization. A maximum of 10 hours may be earned through school-based activities. Students shall not be paid for their services, cannot be court-ordered to complete those services, and cannot be a part of their required National Honors Society hours. Students may also choose to perform community service for a member of the community (who cannot be a relative). Students are responsible for arranging their own transportation to and from the project site.

#### **Option B: Fundraiser**

Students may choose to complete a fundraiser that targets a minimum of \$250 for a chosen charity in place of volunteer hours. Fundraisers that do not meet the \$250 donation will be graded on sliding scale. Fundraisers should be coordinated completely by the student from start to finish. Student will be responsible to show evidence of project completion through the budget process documentation template.

All proposals for the community service project must be submitted on Google Classroom prior to starting the project and approved by a high school principal before the student may begin working and logging hours. This part of the graduation project may be completed at any time after your proposal has been approved. The principal will approve or deny the proposal. You are required to submit a new proposal if your first one is denied.

Both service options require completion of thank you letter(s) to be sent to the individuals for whom the service was completed. A suggested template for the thank you letters is included in Google Classroom and at the end of the Appendix of this packet. Copies of the thank you letters are required for the portfolio.

The form for both Option A & B has been assigned to you on Google Classroom. You will receive feedback through Google Classroom as to the approval status of your proposal.

# GRADUATION PROJECT (CONTINUED)

## **SECTION III: GOVERNMENT MEETING EXPLANATION**

Students are required to attend a government meeting. Examples of acceptable government meetings are listed on the on the Government Meeting Locations page. If something isn't listed, a member of the high school administration can grant permission to an alternative government meeting.

- Students must be in attendance for the meeting in its entirety.
- Students must get a copy of the meeting agenda. If there is not an agenda available, please ask an administrator/officer of the organization so they can provide you one in a timely manner.
- If attending a Freedom school board meeting, the agenda can be found and printed prior to the meeting at <http://go.boarddocs.com/pa/free/Board.nsf/Public> through the Freedom Area School District website.
- During the meeting, students are required to take notes on their Government Meeting Form.
- At the conclusion of the meeting, the student must get their Government Meeting Form signed by an administrator/officer of the organization at the meeting.
  - Before this form can be signed, the form must be completed by the student.
- Students may not be excused from school to attend a government meeting unless permission is granted by an administrator.
- Students are required to write a 1-page reflection of the meeting. Use the following guidelines when writing this reflection:
  - Use MLA format
  - Briefly summarize the main points of discussion and outcomes of the meeting.
  - Discuss what you learned and/or gained by attending the meeting along with anything that was unexpected or surprised you.
  - Comment on the local government organization, its elected officials, and how community business decisions are made. Discuss how you can use this information in the future.

## **SECTION IV: DESCRIPTION OF HIGH SCHOOL ARTIFACTS TO INCLUDE**

- **Freshman Forum Presentation**
  - If you were a student at Freedom Area High School, please upload your freshman forum presentation from your English 9 class.
  - If you were not a Freedom Area High School student during freshman year, upload a sample of your best work from school that year.
- **Sophomore Academy Project Reflection**
  - If you were a student at Freedom Area High School, please upload your reflection from the Sophomore Academy Project through English 10 and Communication classes.
  - If you were not a Freedom Area High School student during sophomore year, upload a sample of your best work from school that year.
- **Two (2) Sample of Work from Junior Year**
  - Include one piece of digital evidence of your most impressive work from a core class (English, social studies, science, or math)
  - Include one piece of digital evidence of your most impressive work from an elective class (foreign language, technology, art, band, tech. ed., weightlifting, etc.)
- **Two (2) Samples of Work from Senior Year**
  - Include one piece of digital evidence of your most impressive work from a core class (English, social studies, science, or math)
  - Include one piece of digital evidence of your most impressive work from an elective class (foreign language, technology, art, band, tech. ed., weightlifting, etc.)



# BEAVER COUNTY CAREER & TECHNICAL CENTER

The Beaver County Career and 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 go to [www.bctc.org](http://www.bctc.org) for more information.

1. This is a two-year training program during the student's junior and senior years. The students will spend half a day at the CTC and the remainder of the day at Freedom Area High School, where they are enrolled in courses required for graduation.
2. The CTC student will graduate at his/her home school with a regular Freedom Area Diploma; additionally, the student will also receive a certificate from the CTC, showing hours in training and the skills that have been developed.
3. There are 17 programs offered at the CTC. Students of all ability levels are eligible to attend.
4. Applications are online. Students who want to attend will need to complete the online application by April 1st.
5. If a student is accepted to the 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 CTC. In such cases, students must attend summer school to make up any deficient courses prior to attending the CTC.
6. Courses available at Freedom High School for the CTC student may be limited due to the time constraints. A student desiring to schedule a specific subject in grades 11 or 12 should consult with their guidance counselor.
7. Some student attending CTC may be eligible to earn an additional 0.5 math credit per year if they are enrolled in the Algebra I or Geometry course at CTC. The 0.5 math credit per year is graded separately from the 3 credits for the CTC class.
8. Students must earn 13 credits by the end of their sophomore year to be eligible to attend the CTC their junior year.

## **AUTOMOTIVE TECHNOLOGY (CIP 47.0604)**

This 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 (CIP 52.1201)**

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

### **RELATED OCCUPATIONS**

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

## **CARPENTRY (CIP 46.0201)**

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

### **RELATED OCCUPATIONS**

- Carpenters
- Job Supervisors
- Cabinet Maker
- Roofer

## **COLLISION REPAIR TECHNOLOGY (CIP 47.0603)**

This program prepares students for entry-level employment in the auto body field. Training involves safety, mig-welding, plasma cutting, using torches, body/fender repair, and hand/power tools/jacks.

### **RELATED OCCUPATIONS**

- Collision Repair Technician
- Adjuster
- Service Management
- Sheet Metal Worker
- Refinishing/Custom Refinishing

## **COMMERCIAL ART (CIP 50.0402)**

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
- Multimedia Animator
- Signage
- Illustrator
- Cartoonist

## **COSMETOLOGY (CIP 12.0401)**

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**

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

## **CULINARY ARTS (CIP 12.0508)**

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
- Chef/Cook
- Kitchen Inspector
- Baker
- Food Sales

## **ELECTRICAL OCCUPATIONS (CIP 46.0399)**

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

### **RELATED OCCUPATIONS**

- Linesman
- Commercial/Industrial Electrician
- Wiring Specialist
- Cable Technician
- Residential Electrician

## **GRAPHIC ARTS & PRINTING (CIP 10.0399)**

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 (CIP 01.0601)**

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 (Future Farmers of America) Club is available for students to join/participate.

### **RELATED OCCUPATIONS**

- Turf Chemical Application
- Garden Center Sales
- Floral Design
- Equipment Sales
- Greenhouse Labor
- Landscaping/Design

## **HEALTH OCCUPATIONS (CIP 51.0899)**

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 Aid
- Registered Nurse
- Dental Assistant
- Clinical Technologist
- LPN

## **HVAC-R (CIP 47.0201)**

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, popping, soldering/brazing, gas heating systems, oil heating systems, air conditioning, heat pump technology, psychometrics, and blueprint reading.

### **RELATED OCCUPATIONS**

- HVAC-R Mechanic
- General Maintenance Contractor
- Building Maintenance
- Applicane Technician

## **LOGISTICS & MATERIALS MANAGEMENT (CIP 52.0203)**

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 Manager
- Inventory Specialist
- Marketing Manager

## **MACHINETOOL TECHNOLOGY (CIP 48.0501)**

This program includes machine tool programming/operation, trade theory, and blueprint 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 (CIP46.0101)**

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

**RELATED OCCUPATIONS**

- Bricklayer
- Cement Finisher
- Construction Supervisor
- Stonemason
- Laborer
- Union Bricklayer

**VETERINARY ASSISTANT (CIP51.0808)**

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
- Veterinary Technician
- Veterinary Technologist
- Animal Lab Technician

**WELDING (CIP48.0508)**

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. Blueprint reading to also taught throughout the two years.

**RELATED OCCUPATIONS**

- Nuclear Welding
- Ship Builder
- Ironworker
- Burner
- Fitter
- Pipefitter

**DIVERSIFIED OCCUPATIONS (CIP32.0105)**

Senior Student Only

An instructional program that operates as an integral part of career and technical education to provide a cooperative arrangement between the school and employers whereby the student receives general education instruction in the school and on-the-job training through part-time employment in business/industry. The area of training may be in any career and technical education area where there are needs for trained persons and must relate to the student's career objective. The program was designed to provide training for those career and technical areas not presently being offered at the career and technical school or comprehensive high school and to serve students who are unable to gain admission to a career and technical program due to excessive applications.



## FIND YOUR WAY. START YOUR FUTURE.

Enroll in one of Community College of Beaver County's High School Academies!

Juniors and seniors can enroll in one of Community College of Beaver County's High School Academies to jump-start your college education and discover the career that's meant for you.

There is a cost to the High School Academies with potential scholarship opportunities.

CCBC's High School Academies are providing Western Pennsylvania's young people with high-impact educational experiences to prepare them for careers that address priority workforce needs of the region. Launched in 2015 with the Aviation Academy, the CCBC High School Academy program now educates more than 170 students from 40 school districts throughout Western Pennsylvania through an innovative dual enrollment model in which students have the opportunity to explore careers in areas of workforce priority for the region while receiving hands-on instruction from college faculty in labs and classroom environments that stimulate critical thinking and problem-solving skills.

Students have permission to drive to CCBC, However, if a student does not have a vehicle, they will ride on the Beaver County Career and Technology Center bus. Freedom Area School District does not provide transportation to the Aviation Center in Chippewa, PA. Students will attend classes in the morning session.

Students who devote two years of study to the program will have the opportunity to graduate from high school having completed up to one year of credits toward CCBC's associate degree programs, or they can transfer the credits to other colleges and universities. Through partnerships with more than 600 four-year college programs nationally, many academy graduates can complete a bachelor degree in three years or less.

Interested student will need to complete the application and return it to the guidance office.

Applications are available in the guidance office.

<https://www.ccbc.edu/high-school-academies>



# CCBC AVIATION ACADEMY

We Build Dreams • We Train Professionals

## CURRICULUM: 28 CREDITS

### AVIATION SCIENCES CENTER: CHIPPEWA

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
AVIP100	TITAN TRANSITION	1
AVIP120	FOUNDATIONS & DEVELOPMENT OF AVIATION	3
WRIT101	ENGLISH COMPOSITION	3

#### SECOND SEMESTER: 7 CREDITS

AVIP160	PRIVATE PILOT FLIGHT THEORY	7
OR		
AVIC160	FUNDAMENTALS OF FLIGHT I	7

#### THIRD SEMESTER: 7 CREDITS

AVIP260	HUMAN FACTORS THEORY	3
MATH126	STATISTICS	4

#### FOURTH SEMESTER: 7 CREDITS

AVIP205	AIRCRAFT ENGINES & SYSTEMS	4
AVIC235	AIR TRAFFIC CONTROL PROCEDURES	3

Courses are offered via online live synchronous OR in person at the Aviation Sciences Center in Chippewa: 152 Cessna Drive, Beaver Falls, PA 15010, and our Washington County College Center. 625 E McMurray Road, McMurray, PA 15317 :724-480-3383

Do you want to learn how to fly a plane and help pilots safely land and take off?

Do you desire to explore high demand, high pay, and exciting career fields?

**CCBC's Aviation Academy is the place for your education to take-off and soar to new heights.**

The CCBC Aviation Academy is the only program in the United States that offers high school students the opportunity to explore Professional Pilot, Air Traffic Control, and Aerospace Management career paths.

You'll have the opportunity to gain hands-on experience in the air and the classroom at the Aviation Sciences Center at the Beaver County Airport- all while earning up to 28 college credits before high school graduation.

### BENEFITS

- Exploring high-demand aviation career pathways
- Earning up to 28 college credits while still in high school
- Learning from experienced college faculty members with extensive aviation backgrounds.
- Opportunity to complete Private Pilot's certification

### REQUIREMENTS

- Students can begin the academy in their junior or senior year
- Minimum GPA of 2.5
- Have taken and passed High School Algebra 1
- Make sure to also check your school district's eligibility guidelines.
- Good Conduct
- Good Attendance

### HOW TO ENROLL

- Contact your school's counseling office for enrollment information.
- Scholarships are available for qualified students.
- Submit CCBC Aviation Academy application and high school transcript to the High School Academy office at CCBC.

### TO LEARN MORE ABOUT THE AVIATION ACADEMY

Aviation Champion:

- Jim Best
- James.Best@ccbc.edu
- 724-480-3606





CCBC  

**CRIMINAL JUSTICE  
 ACADEMY**  
 I Can Protect And Serve.

## CURRICULUM: 28 CREDITS

### CCBC: CENTER CAMPUS

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
CRIM100	INTRO TO CRIMINAL JUSTICE	3
WRIT101	ENGLISH COMPOSITION	3
COLL100	TITAN TRANSITION	1

#### SECOND SEMESTER: 7 CREDITS

CRIM123	POLICING/LAW ENFORCEMENT	4
PSYC 101	GENERAL PSYCHOLOGY	3

#### THIRD SEMESTER: 7 CREDITS

CRIM204	CRIME SCENE INVESTIGATION	4
CRIM210	JUVENILE JUSTICE	3

#### FOURTH SEMESTER: 7 CREDITS

CRIM125	CORRECTIONS	3
MATH129	COLLEGE ALGEBRA W/ REVIEW	4

Do you want to see justice served? Are you interested in a career in law enforcement?

**Enroll in CCBC's Criminal Justice Academy to prepare to serve and protect.**

You'll gain hands-on experience in our classrooms, mock crime scenes, and other real-world environments. As a CCBC criminal justice student, you'll have the opportunity to earn up to 28 college credits while still working towards your high school diploma.

#### BENEFITS

- Learning from experienced college faculty members who have on-the-job experiences to share.
- Continuing your studies toward an associate degree in criminal justice, police technology, cybersecurity, or diplomas in other public service-related fields.
- Getting career-ready for one of the most in-demand and rewarding job fields regionally and nationally.

#### REQUIREMENTS

- Students can join the academy during their junior or senior year
- GPA of 2.0
- Good attendance
- Good conduct
- Recommendation from principal or school counselor

#### HOW TO ENROLL

- Contact your school's counseling office for enrollment information.
- Scholarships are available for qualified students.
- Get your enrollment approved by your parent or legal guardian and the high school principal or designee.
- Submit Academy application and High School transcript to High School Academy office

#### TO LEARN MORE ABOUT THE CRIMINAL JUSTICE ACADEMY

- Criminal Justice Academy Champion:
  - **724-480-3628**
  - [cjchampion@ccbc.edu](mailto:cjchampion@ccbc.edu)





LEARNING RESOURCES

# MASCARO CONSTRUCTION ACADEMY

COMMUNITY COLLEGE OF BEAVER COUNTY

IN PARTNERSHIP WITH



## CURRICULUM: 7 CREDITS

### FIRST YEAR: (FULL YEAR COURSES)

CODE	CLASS	CREDITS
COLL100	Titan Transition	1
BUSM260	Project Management	3

### SECOND YEAR: (FULL YEAR COURSES)

CNST230	Construction Industry Estimating	3
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Do you have a passion for planning, designing, and creating?  
Are you interested in a career in construction?

**CCBC's Mascaro CTC Construction Academy in partnership with BCCTC gives high school students the opportunity to prepare, design and construct their future.**

### BENEFITS

- Students who enroll will be able to earn 7 college credits while attending the CTC. Part of the classwork will be delivered in-person and some will be independent online work
- Classes will complement the hands-on work done at the CTC by giving students construction management skills.
- These courses have been found to be beneficial for individuals looking at eventually moving into leadership roles such as a foreman, superintendent, and project management.
- Recent studies show that in construction even those with some college coursework can see lifetime earnings nearly 20% higher than those with just a high school diploma.

### REQUIREMENTS

- Students can join the academy during their junior or senior year
- GPA of 2.5
- Good Attendance
- Good Conduct
- Signatures from high school counselor and principal required

### HOW TO ENROLL

- Contact your CTC school counselor for enrollment information.
- Scholarships may be available for qualified students
- Get your enrollment approved by your parent or legal guardian and your school counselor and principal.
- Submit Academy application and high school transcript to CTC school counselor.

Students can be awarded a total of 24 college credits towards the Building Trades Technology degree. In addition to the 7 credits above, students who graduate from a local Career and Technology Center with an advanced NOCTI Exam score in one of these approved programs will earn 17 college credits:

- Air Conditioning and Refrigeration (HVAC-R)
- Carpentry
- Electrical Occupations
- Greenhouse/Landscaping
- Masonry/Bricklaying
- Welding

### TO LEARN MORE ABOUT THE CCBC MASCARO CTC CONSTRUCTION ACADEMY

- CCBC Mascaro Construction Academy Champion:
  - 724-480-3543
  - constructionchampion@ccbc.edu





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. As an Education Academy student, you will have the opportunity to earn up to 28 college credits while still working towards your high school diploma.

### BENEFITS

- Learning from experienced college faculty members who have on-the-job experiences to share.
- Get career-ready for a high-demand career pathway and rewarding job both regionally, nationally, and globally.
- Continue your studies to earn your associate's degree in Pre-K to 4th grade or secondary education.

### REQUIREMENTS

- Students can join the academy during their junior or senior year
- GPA of 2.5
- Good attendance
- Good conduct
- Recommendation from principal or school counselor

### HOW TO ENROLL

- Contact your school's counseling office for enrollment information or go to our CCBC website for our Education Academy application.
- Scholarships are available for qualified students.
- Get your enrollment approved by your parent or legal guardian and the high school principal and counselor.
- Submit Academy application and High School transcript to High School Academy office.

TO LEARN MORE ABOUT THE EDUCATION ACADEMY, CONTACT:  
[educationchampion@ccbc.edu](mailto:educationchampion@ccbc.edu) or call (724) 480-3424



## CURRICULUM: 28 CREDITS

### Pre-K - 4th Grade Education

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
COLL100	TITAN TRANSITION	1
ERCH100	INTRO TO EARLY CHILDHOOD	3
WRIT101	ENGLISH COMPOSITION	3

#### SECOND SEMESTER: 7 CREDITS

PSYC101	GEN. PSYCHOLOGY	3
EDUC230	INTRO SPECIAL ED	3
EDUC221	ENG. LANGUAGE LEARNERS I	1

#### THIRD SEMESTER: 7 CREDITS

COMM201	PUBLIC SPEAKING	3
ERCH105	CHILD DEVELOP/HEALTH/SAFETY	3
EDUC222	ENG. LANGUAGE LEARNERS II	1

#### FOURTH SEMESTER: 7 CREDITS

LITR210	CONCEPTS OF LITERATURE	3
ERCH200	DIVERSITY & INCLUSION	3
EDUC223	ENG. LANGUAGE LEARNERS III	1

### Secondary Education

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
COLL100	TITAN TRANSITION	1
EDUC105	FOUNDATIONS OF EDUCATION	3
WRIT101	ENGLISH COMPOSITION	3

#### SECOND SEMESTER: 7 CREDITS

PSYC106	HUMAN GROWTH/DEVELOP	3
EDUC230	INTRO SPECIAL ED	3
EDUC221	ENG. LANGUAGE LEARNERS I	1

#### THIRD SEMESTER: 7 CREDITS

COMM201	PUBLIC SPEAKING	3
LITR/HIST	ELECTIVE	3
EDUC222	ENG. LANGUAGE LEARNERS II	1

#### FOURTH SEMESTER: 7 CREDITS

LITR210	CONCEPTS OF LITERATURE	3
EDUC200	DIVERSITY & INCLUSION	3
EDUC223	ENG. LANGUAGE LEARNERS III	1



*Courses and/or Course Codes are subject to change. Revised 06/2023*



# CCBC HEALTH ACADEMY

Prepare To Care

## CURRICULUM: 28 CREDITS

### FRESHMAN AND/OR SOPHOMORE YEAR

High School - Biology with Lab and Algebra I

### SOPHOMORE YEAR

High School - Chemistry with Lab

### COLLEGE

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
HLTH101	COLLEGE SUCCESS FOR HEALTH CAREERS	3
BIOL201	HUMAN ANATOMY & PHYSIOLOGY I	4

#### SECOND SEMESTER: 7 CREDITS

BIOL202	HUMAN ANATOMY & PHYSIOLOGY II	4
PSYC101	GENERAL PSYCHOLOGY	3

#### THIRD SEMESTER: 7 CREDITS

HSCI203	INTRO TO HEALTH CARE INFORMATICS	3
HLTH104	EXPLORING HEALTH PATHWAYS	1
WRIT101	ENGLISH COMP	3

#### FOURTH SEMESTER: 7 CREDITS

PSYC106	HUMAN GROWTH AND DEVELOPMENT	3
LITR210	CONCEPTS OF LITERATURE	3
HLTH103	PORTFOLIO CAPSTONE PROJECT	1

Do you have a passion for helping others? Are you interested in a career in the healthcare field?

### Enroll in CCBC's Health Academy to prepare to care.

You'll gain hands-on experience in our classrooms and labs as you explore careers in nursing, practical nursing, radiologic technology, physical therapy, respiratory therapy, nurse practitioner, physician assistant, nurse anesthetist, and physician and more. Learn patient care and have the opportunity to earn up to 28 college credits before graduation day.

### BENEFITS

- Learning from experienced college faculty members who are healthcare professionals
- Continuing your studies to earn an associate degree in nursing or radiologic technology or a diploma in practical nursing and other healthcare fields
- Getting career-ready for one of the most in-demand and compassionate jobs regionally and nationally

### REQUIREMENTS

- Students can join the academy during their junior or senior year
- GPA of 2.75
- Good attendance
- Good conduct
- Recommendation from principal or school counselor
- High school prerequisite courses: Biology with lab, Chemistry with lab, and Algebra, each with a C or higher

### HOW TO ENROLL

- Contact your school's counseling office for enrollment information.
- Scholarships are available for qualified students.
- Get your enrollment approved by your parent or legal guardian and the high school principal or designee.
- Submit Academy application and High School transcript to High School Academy office

### TO LEARN MORE ABOUT THE HEALTH ACADEMY

- Health Academy Champion:
- [healthchampion@ccbc.edu](mailto:healthchampion@ccbc.edu)





# CCBC STEM ACADEMY

Engineering Your Future

## CURRICULUM: 28 CREDITS

Do you like problem solving? Are you interested in a high paying STEM career?

### The STEM Academy features two pathways in Engineering or Computer Science

You'll gain hands-on experience in our classrooms and labs while connecting with our industry partners in Engineering and Computer Science. As a CCBC STEM Academy student, you will also have the opportunity to earn up to 28 college credits while still attending high school.

### BENEFITS

- Learning from experienced college faculty and studying our industry-designed and approved curriculum.
- Continuing your studies toward an associate degree in Engineering and Computer Science.
- Getting job-ready for high demand, well paying jobs coming to Beaver County and the region.

### REQUIREMENTS

- Students can join the academy during their junior or senior year
- Good attendance
- Good conduct
- Recommendation from principal or guidance counselor

The following program-specific requirements also apply:

- **Engineering and Computer Science Admission Criteria**
  - GPA 3.0
  - High School prerequisite courses:
    - **Sophomore Year**- Complete Algebra II with a "B" or better and Chemistry with a "C" or better
    - **Junior Year**- Complete Pre-Calculus with a "B" or better

### HOW TO ENROLL

- Contact your school's counseling office for enrollment information.
- Scholarships are available for qualified students.
- Get your enrollment approved by your parent or legal guardian and the high school principal or designee.
- Submit Academy application and High School transcript to High School Academy office

### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
ENGR 130	ROBOTICS	3
WRIT 101	ENGLISH COMPOSITION	3
COLL 100	TITAN TRANSITION	1

### SECOND SEMESTER: 7 CREDITS

CIST 110	GAMING	3
	<b>OR</b>	
CIST 100	INTRO TO INFORMATION TECHNOLOGY	3
CHEM 101	GENERAL CHEMISTRY	4

### THIRD SEMESTER: 7 CREDITS

CISF 150	CLOUD COMPUTING	3
	<b>OR</b>	
ENGR 160	ENGINEERING FUNDAMENTALS	3
MATH 160	CALCULUS I	4

### FOURTH SEMESTER: 7 CREDITS

ENGR 120	CAD: COMPUTER AIDED DRAFTING	3
	<b>OR</b>	
LITR 210	CONCEPTS OF LITERATURE	3
MATH 161	CALCULUS II	4

### TO LEARN MORE ABOUT THE STEM ACADEMY

- STEM Academy Champion:
  - [stemchampion@ccbc.edu](mailto:stemchampion@ccbc.edu)



Courses and/or Course Codes are subject to change. Revised 1/2024