# **Gettysburg Area High School**

# COURSE SELECTION GUIDE

# 2025-2026



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# **Gettysburg Area School District**

Telephone: (717) 334-6254

The Gettysburg Area School District is located in rural Adams County and includes the Borough of Gettysburg and its surrounding townships. Located within 35 miles of Harrisburg and seventy miles of Washington, D.C. and Baltimore, MD, Gettysburg is home to a diverse population. Although tourism and agriculture are the major industries, people are also attracted to Gettysburg by Gettysburg College, Lutheran Seminary, and the Gettysburg Hospital. Gettysburg is also the county seat.

#### **GAHS Mission and Vision**

#### Mission:

Gettysburg Area High School will establish an environment of respect and integrity as our collaborative community creates opportunities to engage learners in experiences that provoke critical thought and challenge their creative intelligences.

#### Vision:

Gettysburg Area High School ensures that all learners have access to a rigorous curriculum of varied experiences that will develop into a personally relevant pathway to future success and ultimately mold citizens who will make positive and meaningful contributions to the world around them.

#### **School Counseling Services**

The Gettysburg Area High School Counseling Center implements a comprehensive program aimed at helping all students achieve academic success and be college and career ready. Students meet individually with their school counselor each year to plan their course selection requests and discuss post-secondary plans. Parents/Guardians are encouraged to be involved in the course selection process each year.

#### Counselors are assigned by the last name of the student:

School Counseling Center Contact Information: 717-334-6254, Opt 2 ext. 6248

Mrs. Carrie Myers Administrative Assistant cmyers@gasd-pa.org

#### Mr. Jonathan Zimmerman

School Counselor jzimmerman@gasd-pa.org Class of 2029 - TBD Class of 2028 - (Last names A-F) Class of 2027, 2026 (Last names A-G)

#### Mr. Mark Smith

School Counselor msmith@gasd-pa.org Class of 2029 - TBD Class of 2028 - (Last names G-O) Class of 2027, 2026 (Last names H-O)

#### Ms. Abigail Krstanovic

School Counselor akrstanovic@gasd-pa.org Class of 2029 - TBD Class of 2028-2026 (Last names P-Z)

#### **College and Career Counseling**

The Counseling Center coordinates and supports a variety of programs aimed at providing students with the best opportunities for success during and beyond high school.

- 1:1 counseling and small group events for topics such as college and career search tools, college application resources, Advanced Placement (AP), College in the High School (CHS), Dual Enrollment (DE), Scholarship programs, ACT 158 Pathway, and Career Pathways, NCAA eligibility, etc.
- Career Exploration Opportunities (e.g., career talks, field trips, job shadowing, internships, etc)
- PSAT/NMSQT sign-ups available to all sophomores and juniors October
- SAT <u>www.mysat.org</u> (March, May, June, August, October, November, and December)
- ACT <u>www.act.org</u> (September, October, December, February, April, June, and July)
- Financial Aid Night September GAHS Auditorium
- Adams County College & Career Fair September Gettysburg College
- College Representative Visits Fall Semester in Counseling Center
- ASVAB (Fall and Spring Semester administrations GAHS)
- Military Recruitment
- Adams County Career Fair for sophomores at Gettysburg College Spring Semester

#### **Graduation Requirements**

Minimum requirements for graduation from Gettysburg Area High School (grades 9-12) are:

English	4.00
Mathematics	3.00
Science	3.00
Social Studies	3.00
Additional Core	1.00
Fine Arts/Practical Arts/Humanities/CTE	2.00
Physical Education	2.00
Freshmen Advisory/Career Exploration	0.50
Safety Education	0.50
Health	0.50
Personal Finance	0.50
Selected Electives	<u>8.00</u>
	28.00

Minimum Total Credits To Graduate 28.00

#### **Early Graduation**

Gettysburg Area High School offers senior students the opportunity to pursue early graduation by finishing their course work at the end of the 1<sup>st</sup> semester of their senior year. In order to be eligible for early graduation, students must:

- Notify their counselor of their intent when scheduling during spring semester of junior year.
- Have completed 24 of the 28 required classroom credits by the first day of school of their senior year.
- Have satisfied the requirements of Act 158.
- Pass all four courses during the 1<sup>st</sup> semester. Students not passing a course during the 1<sup>st</sup> semester will be expected to schedule classes during the 2<sup>nd</sup> semester.

Students who meet these eligibility requirements and complete the necessary coursework will not be required to attend GAHS during the 2<sup>nd</sup> semester of their senior year. Students who choose to do this will not be eligible for participation in school sports (per PIAA rules) or activities (with the exception of Prom, Senior Trip, and Graduation). Students will not receive a diploma until the spring graduation ceremony.

#### **GAHS Career Pathways and Programs of Study**

As explained in our vision statement, our goal is for our students to develop an educational plan that fits within a pathway that is personally relevant to their interests, talents, and passions. We will help students identify a pathway that fits their future ambitions for employment and assist them with their transition to post-secondary work or additional training/schooling. **Our identified Career Pathways include:** \*Agricultural Sciences, \*Business and Management, \*Arts and Communication, \*Engineering and Industrial Technology, and \*Health Sciences and Human Services. Within each of these Career Pathways, we also offer students access to specific Programs of Study that offer a number of unique benefits. These benefits may include industry recognized credentialing, articulation agreements with post-secondary institutions, and/or opportunities for cooperative education and workplace experiences. We encourage students to work with their parents/guardians and school staff members to identify a fitting career pathway and make the most of Gettysburg Area High School's educational opportunities.

#### <u>ACT 158</u>

Beginning with the graduating classes of 2023, students must meet one of the state mandated pathway requirements outlined in Act 158:

- Keystone Proficiency Pathway
- Keystone Composite Pathway
- Career and Technical Education Concentrator Pathway
- Alternative Assessment Pathway
- Evidence Based Pathway
- Approved Individual Educational Plan Pathway

#### **Keystone Testing**

Students enrolled in Algebra 1B or Accelerated Algebra 1B, English Literature 10, Accelerated English Literature 10 or AP English Seminar 10, and Biology or Accelerated Biology are required to take a Keystone exam near the end of their assigned high school course. The Keystone tests are a part of each student's graduation requirements. See ACT 158 section above.

- <u>Keystone Proficiency Pathway:</u> Proficient or Advanced on each of the three Keystone exams.
- <u>Keystone Composite Pathway:</u> At least one Proficient score, no score that is Below Basic and a combined/composite point total across exams that meets state minimums.

#### Honor Roll

In order to be eligible for inclusion on one of the Honor Rolls, a student must be enrolled as a full-time student. GAHS has two levels of Honor Roll. The criteria are as follows:

High Honors	GPA 94-100% and no course grade lower than 94%
Honor Roll	GPA 85-93.99% and no course grade lower than 83%

#### **GASD Cyber Program**

We are pleased to continue offering our 100% cyber school option for students of the Gettysburg Area School District (GASD) for the 25-26 school year. Students have the choice of our traditional brick and mortar school, or our cyber school program, GASD Cyber, offered through Lincoln Edge for students in grades 6-12. For additional information for GASD Cyber, click <u>here</u>.

#### **PA Seal of Biliteracy**

The Pennsylvania Seal of Biliteracy (PASB) is an award given in recognition of students who can read, speak, listen and write at a high level in English and another world language, including American Sign Language. See criteria details in the World Language section of this guide (pg. 51).

#### **Course Weighting**

For the purpose of calculating class rank, final course grades will be on a 100-point scale and weighted with additional quality points according to the following:

Advanced Placement = 1.1 College in the High School=1.1 Accelerated=1.03

#### **GAHS Grading Scale**

100 Point Scale Numeric Weighted Calculation Values			4.0 Scale GPA Weighted Calculation Values				lues		
Letter Grade	Numeric Grade	Standard	Accelerated x 1.03	AP/CHS x 1.1	Letter Grade	Numeric Grade	Standard	Accelerated	AP/CHS
А	94-100	94-100	96.82 - 103.00	103.40 - 110.00	А	94-100	4.00	4.21	4.70
A-	92-93	92-93	94.76 - 95.79	101.20 - 102.30	A-	92-93	3.70	3.91	4.40
B+	90-91	90-91	92.70 - 93.73	99.00 - 100.10	B+	90-91	3.30	3.51	4.00
В	85-89	85-89	87.55 - 91.67	93.50 - 97.90	В	85-89	3.00	3.21	3.70
B-	83-84	83-84	85.49 - 86.52	91.30 - 92.40	B-	83-84	2.70	2.91	3.40
C+	81-82	81-82	83.43 - 84.46	89.10 - 90.20	C+	81-82	2.30	2.51	3.00
С	75-80	75-80	77.25 - 82.40	82.50 - 88.00	С	75-80	2.00	2.21	2.70
C-	73-74	73-74	75.19 - 76.22	80.30 - 81.40	C-	73-74	1.70	1.91	2.40
D+	71-72	71-72	73.13 - 74.16	78.10 - 79.20	D+	71-72	1.30	1.51	2.00
D	67-70	67-70	69.01 - 72.10	73.70 - 77.00	D	67-70	1.00	1.21	1.70
D-	65-66	65-66	66.95 - 67.98	71.50 - 72.60	D-	65-66	0.70	0.91	1.40
F	0-64	0-64	00.00 - 64.00	00.00 - 64.00	F	0-64	0.00	0.00	0.00
Transf			ent, College Au ated in GPA or F		Transf			ent, College Auc ated in GPA or R	

#### **Class Rank**

Class rank will be determined using final percentage grades (rounded to three decimal places) in all Gettysburg Area School District courses for which graduation credit is awarded. Each student will be ranked individually among their class. Student rank will appear on all Official Transcripts. Gettysburg Area High School will select a Valedictorian and a Salutatorian based on class rank.

Dual Enrollment courses taken outside of the high school and taught by teachers not employed by the Gettysburg Area School District will not be included in the class rank calculations or subsequent decile placements. Independent Study, Career Internships, Teacher Assistant, Transition to Work, test out courses, College Audit, and Foreign Study credits will also not be included in the class rank calculations and subsequent decile placements. Students transferring to Gettysburg Area High School from other high schools will receive credit for work completed elsewhere. However, final grades for those courses will not be included in class rank calculations and subsequent decile placements

#### **Scheduling**

- 1. Students must schedule eight credits for the school year.
- 2. Students are required to select a minimum of three alternate electives when scheduling.
- 3. Every course offered at Gettysburg has a credit value. Credits are earned from both required and elective courses
- 4. There are also some electives that students may not take unless they have taken the prerequisite courses. Pay attention to all courses requiring a prerequisite class.
- 5. Some electives require a fee to be paid to help offset the costs of materials used to create student projects, indicated by a (\$).
- 6. In order to be promoted to the next grade level status, a student must earn 4.0 credits to be a sophomore, 12.0 credits to be a junior, and 20.0 credits to be a senior.
- 7. Students planning to enter college are recommended to take an academic curriculum, maintain a high scholastic average and take the appropriate college entrance tests.
- 8. Course offerings are affected by student demand and/or teacher availability. If there is low student demand for the course or if a teacher's schedule is too full, it may be necessary to eliminate the course offerings from the schedule.

#### **Student Schedule Changes**

#### Semester One:

Students will be permitted to make schedule changes over the summer with the understanding that counselors have limited hours. A request for schedule change form must be submitted 10 days prior to the 1st day of school for semester one schedule changes.

#### Semester Two:

A request for schedule change form must be submitted before December break. Acceptable reasons for a course change include: academic misplacement, missing prerequisite, failure of a previously taken core subject, graduation requirement, post-secondary goals.

Please keep in mind that any request to change a schedule may result in the loss of another desired core course or elective of your choice (if it conflicts with the new course being requested) or create an unbalanced schedule for the student. In addition, changes to electives are often very difficult after initial selection. Elective classes fill up quickly and initial schedules are balanced in such a way that later changes may not be possible.

- A schedule change request form needs to be completed by the student and signed by a parent.
- Turn your completed form into the Counseling Center. All schedule changes must be approved by an administrator.

#### **Course Audits**

In cases where an 11<sup>th</sup> or 12<sup>th</sup> grade student is on schedule in meeting graduation requirements, he or she may choose to audit a college course through Gettysburg College. The student will receive a high school elective credit; however course audits are not factored into class rank or GPA. Course audit credits are not transferable to a college or university.

#### **Independent Study**

Gettysburg Area High School offers students the limited opportunity to schedule an independent study for an elective credit. In order for a proposal to qualify for an Independent Study:

- 1. A student must complete the necessary application with his/her counselor.
- 2. The course must be an elective credit.
- 3. The course must demonstrate daily documented work.
- 4. The course should be in a field of intended post-secondary study for the student.
- 5. The course must have clearly defined assessments.
- 6. A certified staff member at GAHS must agree to serve as an advisor for the study. The student will report to that staff member's class room each day during the designated period.
- 7. All Independent Studies must be scheduled and approved by the end of the first week of school in August. No independent studies will be approved at the semester break in January without extreme extenuating circumstances.

### **College Credit Programs**

#### **Advanced Placement Courses (AP)**

Advanced Placement courses are weighted an additional 10%, the same as College in the High School courses. See the Grading Scale on page 7.

All Advanced Placement (AP) courses are college-level courses designed to prepare students for Advanced Placement tests. Depending upon how well a student does on the respective AP examination given in May, they may receive college credit in a particular subject area. Students electing to take an AP course are required to take the examination and pay the exam fee (approximately \$100.00). Payment of the fee can be made in three installments. Failure to pay the fee will result in an "Incomplete" being assigned for the class grade until the fee is paid. Financial assistance may be available.

Students desiring to take AP courses need to be highly motivated and should have experienced a high degree of success in previous courses in the subject area. Students will be required to do a great deal of reading, writing, and high-level problem solving.

In addition, students enrolled in AP courses may be required to complete summer assignments. Please see each individual course description for guidelines regarding summer work assignments. Assignments should be given directly to the teacher of the AP course. Exceptions may be granted by the teacher with the approval of the administration for extenuating circumstances only. Three or more college credits may be granted by the cooperating institution based on the student's AP exam score and the receiving college's AP credit policy.

#### **College in the High School (CHS)**

College in the High School courses are weighted an additional 10%, the same as Advanced Placement courses. See the Grading Scale on page 7.

Gettysburg Area High School has partnered with various post-secondary institutions to provide college level courses and credit to eligible students in grades 11 and 12. College in the High School courses are taught by certified Gettysburg Area High School teachers, offering the same course content as the college. Students enrolled in CHS courses have the option to earn college credits offered at a reduced tuition rate at the expense of the student and family at the approximate cost of \$225.00 - \$400.00 per course. Courses are charged per credit, with the cost per credit being set by the college. See each course's description for more details. Financial assistance may be available, consult with your counselor.

#### **Dual Enrollment (DE)**

Dual Enrollment course grades are <u>not</u> calculated in a student's GPA. See the class rank summary on page 7.

Dual enrollment courses offer students a broader range of coursework and flexibility in their schedule while providing students the opportunity to experience college courses. These courses are taught by post-secondary instructional faculty, and offered at a reduced tuition rate at the expense of the student and family. The student will earn both college and high school credits upon successful completion of a DE course. At the conclusion of the course, any student requiring a transcript for the transfer of credits to a college or university must submit their request through the Dual Enrollment college. Dual Enrollment course grades will be added to the student's transcript as reported to GAHS by the college.

Qualifications: Students wishing to participate in dual enrollment should meet the following.

- Junior or Senior standing
- On target to meet graduation requirements
- Weighted, cumulative GPA of at least 3.0 or teacher/counselor recommendation
- Have strong communication and organizational skills
- Parent approval (Student and Parent will complete a GAHS DE contract)

#### NCAA Eligibility

#### 2024-2025 Guide for the College-Bound Student-Athlete

Students who plan to participate in college athletics must be familiar with the National Collegiate Athletic Association (NCAA) <u>eligibility requirements</u>. In order to be eligible for college athletics, a student must take a minimum number of NCAA approved courses and meet minimum requirements for GPA. The Gettysburg Area High School approved course list can be found at this <u>link</u>: GAHS CEEB Code: 391510. More details can be found on the NCAA <u>website</u>.

All student-athletes considering college athletics should discuss the matter with their school counselor to ensure proper course selection. Also, in the junior year, the student must register with the NCAA Eligibility Center which can be accessed <u>here</u>. NOTE: The NCAA has its own method of <u>GPA calculation</u>. See your counselor for more information.





2. Earn a minimum 2.2 core-course GPA.

 Ask your high school counselor to upload your final official transcript with proof of graduation to your Eligibility Center account.

#### **Division III**

While **Division III schools** set their own admissions and academic requirements, **international student-athletes** (first-year enrollees and transfers) who are enrolling at a Division III school after Aug. 1, 2023, must be certified as an amateur by the Eligibility Center. Contact the Division III school you plan to attend for more information about its academic requirements.

GETTYSBURG AREA HIGH SCHOOL – PLANNING GUIDE							
Name:		College	College Bound Athlete: Graduation Pathway:				
Graduation Year:		Graduat					
Credit Requirements:	Grade 9	Grade 10	Grade 11	Grade 12			
(28 credits minimum)	(8.0 credits)	(8.0 credits)	(8.0 credits)	(8.0 credits)			
English							
(4 credits)							
Social Studies							
(3 credits)							
Mathematics							
(3 credits)							
Science							
(3 credits)							
Additional Core							
(1 Credit)							
Physical Ed							
(2 credits)							
Wrap Around Courses	Freshman Advisory &	Safety Education	Health or CHS Health	Personal Finance			
(2 credits)	Career Exploration (.5 cr.)	(.5 cr.)	(.5 cr.)	(.5 cr.)			
Fine Arts/Practical							
Arts/Humanities/CTE							
(2 credits)							
Electives							
(8 credits)							

\*This planning guide is for graduation years of 2027 and beyond. Most of the Class of 2026 took 9 credits their freshman year.

Gettysburg Area High School 2025-2026

# Agriculture

#### Chairperson - Mrs. Kennedy Department Members – Mrs. Scott

The Agriculture Education program offers a wide variety of courses that are designed to provide students with the chance to demonstrate knowledge and skills through real-life applications. Teachers in the Agriculture Education program maintain close ties with business and industry personnel to ensure courses reflect current expectations within the marketplace. Students who complete the program have an opportunity to acquire industry-specific certifications and/or college credit. In addition, students will develop the skills necessary to enter the workforce while also preparing themselves for post-secondary education and/or technical school training.

\*A CTE Program in Agriculture, General can provide students the opportunity to earn college credit at selected technical schools and community colleges. We have a specific articulation agreement with Delaware Valley University (see Mrs. Kennedy or your school counselor for details).

#### **Introduction to Agricultural Sciences**

Agriculture Science investigates the various segments of science involved in agriculture. Specific studies include the history of agriculture and society, food science and marketing of products in America's largest industry, soil science, plant science and animal science. This course is a springboard for other classes in the agriculture curriculum. **This course may be used as either elective or science credit in meeting graduation requirements.** 

#### **Animal Science I**

Prerequisite: Introduction to Agricultural Sciences, Accelerated Biology, or teacher recommendation

This course provides a comprehensive look at both small and large animals with an emphasis on animal science and veterinary medicine. Students will develop their knowledge in the following content areas: breed identification, nutrition, reproduction, internal and external anatomy and genetics. Other content areas that will be discussed are proper selection and use, diseases, prevention and treatment methods and animal behavior and handling. As part of this course, students will have the opportunity to work with live animals to further enhance their learning. **This course may be used as either elective or science credit in meeting graduation requirements.** 

#### **Animal Science II**

Prerequisite: Animal Science I with a final grade of 75% or higher or teacher recommendation

This course provides a comprehensive look at production operations and management of both small and large animals. Students will develop their knowledge in production operations and management relating to the following content areas: proper management and production standards, care and handling, selection and use, technology, nutrition, reproduction, and disease prevention and treatment. **This course may be used as either elective or science credit in meeting graduation requirements.** 

College Credit at Delaware Valley College is offered through completion of this course with a B or higher. Certification Opportunities: Dairy Herd Management; Dairy Business Management.

#### **Horticulture Production**

Prerequisite: Introduction to Agricultural Sciences with a final grade of 75% or higher or teacher recommendation

This course is designed to engage students in the overall production of plant material and production crops. Students will learn about the anatomy of plants and their reliance on environmental conditions for optimal health and production. Additionally, students will identify the role of crops and animal nutrition. Students will maintain and care for the production and management of greenhouse crops such as poinsettias, vegetables, fruits, house plants, and much more. **This course may be used as either elective or science credit in meeting graduation requirements.** 

Certification Opportunities: Pennsylvania Certified Horticulturist (PCH) Associate credential; Pesticide Applicator

#### 1 Credit

1 Credit

12

# 1 Credit

#### Introduction to Equine

This course will provide students with basic knowledge about horses and the equine industry. Topics will include basics on equine evolution, history of use, breed identification, tack and equipment identification, anatomy and physiology and career opportunities.

#### **Agricultural Leadership**

This course serves as an opportunity to develop basic leadership skills and student potential for premier leadership, personal growth and individual career success. Throughout this course, many personal and interpersonal leadership traits will be studied. Specifically, students will focus on understanding leadership and global citizenship, communication and speaking and leading individuals and small groups. Students will also have the opportunity to explore the many benefits of FFA and Supervised Agricultural Experience (SAE) and identify the many career opportunities available in agriculture.

#### **Agribusiness Management**

Prerequisite: 10th, 11th, or 12th grade standing

This course has been designed to give students a basic understanding of what it takes to manage an agricultural business. This course allows students to combine economic principles of business with sales, management, and service skills. Students will identify basic economic and business principles used within the agricultural industry. Specific areas of study include economics, business management, market foundations, product marketing and sales and sales techniques. Students will also have the opportunity to advance their knowledge through hands-on experiences provided by the agricultural department.

### Supervised Agricultural Experience (SAE)

Prerequisite: Introduction to Agricultural Sciences

This course is a self-initiated program, completed beyond the school day, for students continuing the supervised agricultural experience (SAE) project and utilizes work-based learning opportunities. Individual visitations may be made by the instructors to review project activities, review record-keeping, provide feedback and discuss career goals with the student and parent or employees. Students will be required to maintain their project book and keep accurate records of their activities including time on task, finances, photo journal, approved practices and leadership opportunities. Students may enroll in the course each semester.

### Landscape Design I

In this course, students will be introduced to the landscape industry. Students will learn about the many components of the landscaping industry sector. Students will develop an eye for the identification of plant material. Additionally, students will learn design principles of effective and functional landscape design. Students will learn how to use drawing tools and become familiar with drawing landscapes to scale.

#### Landscape Design II

Prerequisite: Landscape Design I with a final grade of 75% or more or teacher recommendation

In this continuation of landscape I, students will continue to learn how to identify more complex plant species that are used in the landscape. Additionally, students will begin to draw more complex landscape designs. Students will be responsible for creating their own themed landscape design. Selection of softscape material and hardscape material should demonstrate student knowledge of landscape uses and requirements.

Certification Opportunities: Pennsylvania Certified Horticulturist (PCH) Associate credential

#### .5 Credit Per Semester

#### 1 Credit

1 Credit

1 Credit

1 Credit

#### **Floral Design**

1 Credit

This course is designed to provide students with the opportunity to design beautiful floral arrangements. Students in this course will focus primarily on the design/art aspects of floriculture as they learn various types of plant material, uses of plant material, styles of designs and applications of flowers. Students will also learn the general business management concepts to operate a floral business. **A \$35 project fee is required to create a seasonal floral arrangement.** 

#### **Agriculture Cooperative Education Capstone**

Prerequisite: Teacher recommendation only and completion of Agribusiness Management and course of study in either animal science or horticulture production operations

The Agriculture Cooperative Education Program will provide students with an opportunity to gain on-site career experience with business and professional organizations in his/her chosen area of interest within agriculture. The student will work with their teacher and on-site supervisor to develop a series of learning objectives and tasks that must be completed throughout their experience.

## Art

#### Chairperson - Mrs. Stith Department Members - Mrs. Dreves

Art classes are all 'hands-on' with outcome-based projects providing the central method for learning. The Art Department offers visual and media arts, fine craft and art history courses geared toward production with a variety of modern and traditional tools and techniques. Students interested in a creative career or just sharpening creative thinking skills will have the opportunity to focus on top-notch design problem solving and projects suited for college entrance portfolio requirements, individual entrepreneurship and/ or competitive merit-based scholarships.

#### Art I - Two-Dimensional Design

This course emphasizes the exploration of visual art in a variety of 2-D media and design. Students learn skills in drawing, painting, illustration, beginning animation, and printmaking while applying their learning of art history, the elements and principles of design and art appreciation. A sketchbook is required. Students are required to purchase some drawing materials.

#### Art I - Three-Dimensional Design

This course emphasizes the exploration of visual art in a variety of 3-dimensional materials.. Students will explore 3-D materials such as clay, paper, cardboard, wire, recycled materials, wood, and more. The elements and principles of art and design as well as art history will be emphasized in planning, creating, and critiquing original works of art, which utilize the techniques and processes of 3-D art and design. **This course has a \$10.00 materials fee.** 

#### Art I - Art Foundations

An introductory art course that includes foundational exploration of drawing, painting, sculpture, ceramics, graphic design, and mixed media projects. Students will experience a comprehensive exploration of fundamental art techniques, principals, history, and materials.

#### Art II - Drawing & Painting

Prerequisite: Art I

Students investigate and expand technical skills in drawing and painting, as they develop their art portfolio and artistic perspective. Students will develop a deeper sense of their creative process as they work in a collaborative studio environment with emphasis on advanced drawing techniques, experimental painting, conceptual development, portrait/figure studies, art analysis/critique, art history, and current trends in art.

#### Art II - Ceramics & Sculpture

Prerequisite: Art I

Students will experience the art of ceramics through hand-building, sculpting, throwing on the wheel, glazing, and firing methods. Sculpture tools, materials, and techniques will be investigated and expanded upon as students continue to develop and explore cultural appreciation, art history, material management, and design processes. Students will create and produce various unique works of sculpture and ceramic art throughout this course. **This course has a \$35.00 materials fee.** 

1 Credit

1 Credit

1 Credit

1 Credit

#### Gettysburg Area High School 2025-2026

#### Art II - Jewelry & Metal Craft

Prerequisite: Art I

Students learn to use traditional jeweler's tools & techniques to form & fabricate unique pieces of wearable art jewelry & small-scale metal sculpture. Specific skills addressed will be soldering, cold connections, chain making/ wire fabrication, stone setting, and enameling, while addressing art history in a creative studio art atmosphere. A sketchbook and tool kit are required. Tool kit is available for purchase for approximately \$50 wholesale.

#### Advanced Placement Studio Art: Two-Dimensional Art

Prerequisite: Completion of at least one Art II level class or teacher recommendation based upon portfolio

Hands-on class designed for the sophisticated art student seriously interested in the practical experience of studio art. Students will be expected to develop a strong technical 2D portfolio consisting of 15-20 original art works. The completed portfolio serves as the Advanced Placement Test. It may also be used for college entrance requirements. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### Advanced Placement Studio Art: Three-Dimensional Art

Prerequisite: Completion of at least one Art II level class or teacher recommendation based upon portfolio

Hands-on class designed for the sophisticated art student seriously interested in the practical experience of studio art. Students will be expected to develop a 3D portfolio consisting of 15-20 original art works concentrated on a theme or specific area. The completed portfolio serves as the Advanced Placement Test. It may also be used for the college admissions process. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### **Advanced Placement Studio Art: Drawing**

Prerequisite: Any Art II Level or teacher recommendation based on portfolio

Hands-on class designed for the sophisticated art student seriously interested in the practical experience of studio art. Students will be expected to develop a drawing portfolio with specific theme or interest consisting of 15-20 complete, original art works. The completed portfolio serves as the Advanced Placement Test. It may also be used as a college entrance requirement. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

1 Credit

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1 Credit

# **Business and Computer Information Technology**

Co-Chairpersons – Mrs. Osmolenski and Mr. Wadel Department Members – Mr. Donahue, Mr. Kluck, Mrs. Ramsburg

The United States is unique in the world because of its "free enterprise" systems and the dream that any person may become a success. The Business and Computer Information Technology Department offers courses that provide students with the necessary skills, attitudes, and knowledge which help ensure this success.

\* Programs of Study (POS) in Communications, Accounting, Administrative Assistant and Secretarial Sciences and Sales, Distribution and Marketing Operations provide students the opportunity to earn college credit at selected technical schools and community colleges. A complete list of colleges participating in the statewide articulation program can be found at <u>www.collegetransfer.net</u>.

\* You can learn more about Pathways and suggested courses in the Appendix

\* We offer 2-year programs of study, which require 720 hours of coursework (4 courses in a chosen pathway)

#### College in the High School Accounting I

Prerequisite: 10th, 11th, 12th grade standing and 75% or higher in Algebra 1B

If you plan to major in any area of business in college (most colleges recommend one, if not two, accounting courses as a background for business majors), to own your own business, or to maintain financial records in your daily life you should consider taking Accounting I. This course will provide students with a foundation for both personal and business recordkeeping methods. Students will study the accounting cycle through recording business transactions, preparing and interpreting financial statements, processing payroll, and completing banking procedures. A hands-on business simulation will be completed during this course. \*Offered as a CHS course through Carlow University The fee for Carlow University in the High School courses is approximately \$75 per credit. The Carlow University establishes a fee for the course. Financial assistance may be available.

#### **College in the High School Accounting II**

Prerequisite: Completion of Accounting I with a grade of 80% or higher.

85% of the retail market share in small businesses uses QuickBooks as its primary accounting software, while 4 out of 5 accountants recommend it to their small-business clients. So why not get certified while you're in high school? Some colleges even recognize the certification through the American Council on Education (ACE) and offer college credits. Get Intuit certified TODAY and graduate with certifications in Design Delight Innovator, Bookkeeping Professional, and QuickBooks! \*Industry Certification Available with Parental Consent. \*Offered as a CHS course through Carlow University The fee for Carlow University in the High School courses is approximately \$75 per credit. The Carlow University establishes a fee for the course. Financial assistance may be available.

#### **Business Basics**

This course is designed to prepare an individual for the ever changing demands of the business world. Students will learn about FBLA (Future Business Leaders of America) organization. They will build a business plan which provides concepts and practices relevant to the real world. Additional topics include: economics, management, human resources, production, and international trade. When possible meaningful connections will be made from one project to the next.

#### **Business Law**

Prerequisite: 11th or 12th grade standing

This course is designed to give students an understanding of how law governs business and individuals in our society. This is an excellent introduction to college-level Business Law and is also helpful to students pursuing careers as an attorney, owning their own business, entering the law enforcement field, and for learning more about personal/business contracts (ex: rental agreement).

1 Credit

1 Credit

1 Credit

#### Entrepreneurship

Do you want to be your own boss someday? Entrepreneurs have played a vital role in the development of this country. The willingness of such people to innovate, take risks, and devote themselves to building a business has been the stuff legends and heroes are made of. This course will discuss the theory and reality of entrepreneurship. Students will create a business plan, and also be involved in hands-on projects to innovate products.

#### **College in the High School Business**

Prerequisite: 11th or 12th grade standing

This course introduces students to the broad field of business. The course covers an overview of the basic functions of business including management, marketing, finance, accounting, and human resources. The course also introduces students to basic economic systems and discusses the importance of ethics and corporate social responsibility to business success.

If enrolled through the college, participants in this course could earn 3 college credits contingent upon acceptance of the application, meeting eligibility requirements and payment of the reduced tuition of approximately \$260.00 per course. Application to the college occurs through the course. Financial assistance may be available.

#### **Career Development and Decision Making**

Prerequisite: 12th grade or teacher recommendation

This is a personalized, interaction-based course that utilizes short lectures, group exercises, personal assessments, audio-visual aids, and field interviews. Students will explore the process of career and decision-making through World-of-Work exploration, self-awareness, occupational research, and goal setting. Students will receive an OSHA certification.

#### **Marketing Essentials**

Prerequisite: 10th, 11th, or 12th grade standing

Product...Place...Price...Promotion...Did you know they affect your buying habits? This course covers the functions involved in the marketing of consumer goods to their users. Project based learning is utilized to show practices from the business world. Students will learn and apply basic marketing skills and strategies through the management of the school store.

#### **Marketing Management**

Prerequisite: Marketing Essentials and/or Entrepreneurship

Marketing skills will be applied from the previous course to enhance the buyer's experience in the school store. Marketing management refers to internal activities that keep the marketing process maximized and moving forward. Students will be responsible for the ordering products related to the school store, and marketing the products to the correct target market. Students may also work with other groups, organizations, and teams throughout the school on marketing campaigns.

#### Personal Finance Scheduled simultaneously with 12th grade PE

This course will help you learn how to use your personal financial resources to enjoy today and be financially secure tomorrow. Many young people fail in the management of their first consumer credit experience, establish bad financial management habits, and stumble through their lives learning by trial and error. Students will explore financial concepts such as money management, the tax system, buying or leasing a car, consumer credit and debit cards, banking, investing, and insurance. This course is a graduation requirement for all students.

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#### Introduction to Computer Programming

Prerequisite: Algebra I with a grade of 75% or higher

The demand for computer programmers continues to grow. This course will help you decide if this career is suited for you. Learn how to program using different languages. Begin by completing simple programs and completing the course with understanding more complex operations.

#### **Advanced Computer Programming**

Prerequisite: Introduction to Computer Programming

This course is a continuation of Introduction to Computer Programming. Students will use hands-on projects to analyze a problem, design and code a program, and test and debug the program in order to formalize a solution. Languages used will be C, Java, and other possibilities.

#### College in the High School Intro to Software for Business

Prerequisite: Working knowledge of computer operations and 11th or 12th Grade standing. Placement Testing

This hands-on, project-oriented course provides a fundamental understanding of computers and familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the use of microcomputers and software applications, including Word, Excel, Access and PowerPoint. Students must meet the same requirements as those college students taking the course on the college campus.

If enrolled through the college, participants in this course could earn 3 college credits contingent upon acceptance of the application, meeting eligibility requirements and payment of the reduced tuition of approximately \$260.00 per course. Application to the college occurs through the course. Financial assistance may be available.

#### Microsoft Office Associate

Microsoft Office training is the 3rd most requested skill for jobs. This course will allow students to get certified in Microsoft Office, by learning skills in Word, PowerPoint, Excel and Access. The course includes practice tests to prepare students for the certification exam. This is a great way to build your resume and open the door to more opportunities in your future! **\*Industry Certification Available with Parental Consent** 

#### **Microsoft Office Expert**

Prerequisite: Microsoft Office Associate course completion with Associate Certificate

This course is a hands-on, project-oriented class covering the advanced features of Microsoft Office Word, Excel, and Access. Students will be provided with practice tests to prepare them for the Expert level certification exam. **\*Industry Certification Available with Parental Consent** 

#### Web Design

The demand for web designers continues to grow. The course will help you decide if this career is suited for you. Learn how to program in HTML and DreamWeaver using hands-on projects. Create simple web pages and move along to a cascade style sheet (CSS) finishing up with using Javascript and more advanced concepts.

#### 1 Credit

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## **Career and Advisory Department**

Department Members - Mr. Kluck & Mrs. Ramsburg

The vision of GAHS is to ensure that all learners have access to a rigorous curriculum of experiences that will develop into a personally relevant pathway to future success. These courses explore student interests, career aspirations and job related skills.

#### **Career Internship/Teacher Assistant**

Prerequisite: 11th or 12th grade standing

Students in 11th and 12th grade may arrange an internship or teacher assistant placement off-campus work sites related to their career goal, and earn 1 credit for the successful completion of the program. As a Pass/Fail course, the credit is EXCLUDED from grade point average calculations.

Students are required to schedule an internship, complete "check-ins" via Canvas / Google Forms, complete Canvas assignments, and complete one writing prompt at the end of each marking period. Students will also be evaluated by their training supervisor once a marking period. Students are required to see the Career Coordinator or their School Counselor for paperwork to schedule this course. Students will be REQUIRED to meet with the Career Coordinator prior to starting their internship to ensure all paperwork is complete.

#### Freshman Advisory and Career Exploration

Scheduled simultaneously with 9th grade PE

Students will explore the ever-changing workforce by looking at career acquisition, awareness, and preparation, while learning how to connect their personal interests and skills to career opportunities for the future. Students will explore career pathways and opportunities available at GAHS and begin to make career and educational goals for life post-secondary. This course is a graduation requirement for all students.

#### **Transition to Work**

Prerequisites: 12th grade standing and administrative approval

Students in 12th grade may arrange a Transition to Work (Co-op) off-campus placement, and earn 1 credit for the successful completion of the program. As a Pass/Fail course, the credit is EXCLUDED from grade point average calculations.

Prior to submitting this Transition to Work form, you should have already secured employment. Throughout your time in the program, you will be required to submit your schedule (weekly), complete mini assignments in Canvas, and complete a writing prompt at the end of each marking period. You will be evaluated by your training supervisor once a marking period as well. Students will be REQUIRED to meet with the Career Coordinator (Mr. Kluck) prior to starting their Transition to Work placement, to ensure all paperwork is complete.

1-2 Credits

1 Credit

# **Career and Technology Department**

Co-Chairpersons – Mrs. Kennedy and Mr. Licharowicz Department Members – Mr. Colgan, Mr. Deckert, Mr. Hardy, Mr. Sokol & Mrs. Smith

The Career and Technical Department offers a wide variety of courses which provide students with the chance to demonstrate knowledge and skills through real-life applications. Teachers in the Career and Technology Department maintain close ties with business and industry to ensure courses reflect current expectations in the marketplace. Students may select a single course from this department or may choose to complete an entire series of courses. Students who enroll in one or more of the courses, will develop job-entry skills or be prepared for post-secondary education or technical school training.

\*Programs of Study (POS) in Communications or Engineering provide students the opportunity to earn college credit at selected technical schools and community colleges. A complete list of colleges participating in the statewide articulation program can be found at <u>www.collegetransfer.net</u>.

#### Photographic Technology I

This course is designed to give students a basic understanding of contemporary photographic technology. Photographic Technology I will provide opportunities for students to practice common procedures of contact prints, enlargement of pictures and finishing procedures. Additionally, the course will introduce students to digital photography and its uses and applications to modern photography and the world of information management. A \$15 consumable materials fee is also charged to replace in-house materials. This class qualifies as a prerequisite for Yearbook / Publications or Photographic Technology II

#### Photographic Technology II

Prerequisite: Photographic Technology I with a grade of 80% or higher

This course will review, emphasize, and build on the basic skills learned in Photographic Technology I. Students will participate in weekly photo assignments and photo design challenges to improve their problem-solving skills in camera handling, exposure control, composition, digital imaging, and visual presentation. Students have dedicated time to pursue their major area of interest with strong emphasis placed on the production of a professional quality portfolio. Personal photographic equipment is required! A \$20 consumable materials fee is also charged to replace in-house materials. This class qualifies as a prerequisite for Yearbook / Publications or Independent Study

#### Yearbook and Publications I

Prerequisite: Photo Tech I or Graphic Communications I with a grade of 70% or higher

Students in this semester course will learn and apply the knowledge and skills associated with all phases of creating, producing, advertising and distributing GASD Elementary School yearbooks, Warrior Cannon-Aid and the monthly newspaper Maroon and White. Students should have some basic knowledge of the following software: Adobe InDesign CC and Adobe Photoshop CC. Students will apply the knowledge and skills associated with all scheduling for layout, capturing and editing photographs, soliciting advertisements, planning a yearbook sales campaign, and distributing the yearbook publication (Canon-Aid). In addition, students will obtain sports statistics and student activity information, meet deadlines, and use Adobe CC software to create a quality product while applying knowledge and skills.

#### Yearbook and Publications II

Prerequisite: Yearbook and Publications I: Photo Tech I, Yearbook/Publications I, or Graphic Communications I with a grade of 80% or higher

Students in this semester course will learn and apply the knowledge and skills associated with all phases of creating, producing, advertising and distributing GASD Elementary School yearbooks, Warrior Cannon-Aid and the monthly newspaper Maroon and White. Students will learn layout and design skills using Adobe InDesign. Students will also have access to classroom cameras to take event photos and learn to manage photos with two Adobe products, Photoshop and Lightroom.

1 Credit

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1 Credit

#### Multimedia I

Students will become familiar with and explore production tools, roles, skills and processes used in multimedia. They will perform production roles, develop hardware and software skills, apply production processes and assimilate multimedia literacy. Student web and DVD portfolios are developed to showcase their growth with computer technologies, animation, software presentation, video, and television productions. Students are required to do morning announcements and perform production activities after the school day. **This class has a \$10 fee for materials.** 

#### Multimedia II

Prerequisite: Multimedia I with and 80% or higher

Students analyze and critique multimedia structures as they develop and refine competencies within media production tools, roles, skills and processes. Students continue to develop a professional web and DVD portfolio showcasing their growth. The course will emphasize leadership, project management, classic Hollywood editing, message delivery, special effects and studio interviews/production. Students are required to arrive at school early to do morning announcements and perform production activities after the school day. **This class has a \$10 fee for materials.** 

#### **Advanced Multimedia**

Prerequisite: Multimedia II with and 80% or higher

Students will research, analyze and critique multimedia structures, production tools, roles, skills, occupations, and processes. Individual directed learning and production styles are nurtured. Students perform leadership roles and manage productions associated with televisions, video, animation, computer presentations, CD/DVD, web productions and media distribution. Students continue to develop a professional web and DVD portfolio showcasing their growth. Students are required to arrive at school early to do morning announcements and perform production activities after the school day. **This class has a \$10 fee for materials.** 

#### **Graphic Communications 1**

Graphic communications means the exchange of information in visual form through the use of text, illustrations, photographs, or a combination of these. In Graphic Communications 1, students will learn and incorporate the basics of graphic design and layout using Adobe InDesign, Adobe Illustrator and Adobe Photoshop. Students will explore the fundamentals of graphic design, the elements and principles of design, digital imaging, desktop publishing, typography, screen printing, vinyl printing and cutting. Graphic Communications 1 is one of the core courses for the Communications Program of Study. **A \$10 consumable materials fee will be charged.** 

#### **Graphic Communications 2**

Prerequisite: Graphic Communications 1

Graphic Communications 2 builds on the basic processes and procedures developed in Graphic Communications I. Students will use graphic design industry standard software, such as Adobe InDesign, Illustrator, and Photoshop to create professional quality computer graphic designs, graphic layouts, and three-dimensional computer design projects. Advanced techniques in digital design and layout, color separation, and production processes will be used. Production level printing processes in screen printing techniques and vinyl printing and cutting will be explored. Students may have the option to test for Adobe certifications in Adobe Illustrator and Adobe Photoshop. A \$15 consumable materials fee will be charged. Additional fees would be charged for Adobe certifications.

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#### T.S.A. Graphic Production

#### Prerequisite: Graphic Communications 1 and teacher recommendation

Students participating in TSA Graphic Production will design, layout, and mass produce graphic images using screen printing processes and industry standard vinyl printing and cutting techniques. Students function as members of the Technology Student Association leadership core, while exploring the basic concepts in graphic production processes. Students will follow contemporary business practices of marketing, sales, financial record keeping, design, production, and distribution of products. Students will have the opportunity to enter one of the TSA regional communication competitions in January.

#### **Computer Aided Drafting and Design (CADD)**

This is a Level 1 Course for Engineering POS

Computer Aided Drafting and Design (CADD) is designed to introduce students to the field of engineering through drafting and design. A variety of drawings will be completed using CADD. Students will study and apply sketching techniques and drafting concepts while learning and using AutoCAD to develop multi-view and pictorial drawings. Students will learn how to create three-dimensional models and assemblies using solid modeling software. Students will also receive exposure to basic engineering concepts through computer software simulation tools. In addition, students will experience 3D printing and CNC (Computer Numeric Control) machining. Career choices in engineering, computer aided design, and related fields will be discussed and explored. This class qualifies as a prerequisite for Mechanical Drafting and Design, Electronics Technology, T.S.A. Manufacturing, T.S.A. Robotics Engineering, and Introduction to Geographic Information Systems (GIS) / FAA 107 Drone Certification.

#### Architectural Drafting and Design

Architectural drafting and design includes the study and design of residential structures. Students will explore various types of home designs and construction methods. Autodesk Revit will be used in the production of floor plans, elevation plans, wall sections, and other types of drawings required for the complete design of modern homes. Students will also have the opportunity to develop a three-dimensional computer aided walk through of the home that they designed.

#### **Mechanical Drafting and Design**

Prerequisite: Computer Aided Drafting and Design (CADD)

Mechanical drafting and design is an advanced drawing and design course that builds upon the skills and knowledge attained in 1766-Computer Aided Drafting and Design (CADD). Students will learn and accurately utilize solid modeling software to design, test, and create prototype parts and assemblies. Students will be introduced to various fasteners and their role in assemblies. Students will also be introduced to computer numeric control (CNC), and 3D printing where they will manufacture components to complete a team design project. Students will also receive exposure to engineering concepts through computer software simulation tools. This class qualifies as a prerequisite for TSA Manufacturing.

#### **Materials Processing I**

This is a Level 1 Course for Engineering POS

In this beginning course in the materials area, students will design and build a project from start to finish, learning how to safely and properly use all types of tools in the lab, including hand tools, portable power tools and large stationary power tools. Students will learn a number of production and manufacturing techniques, and a variety of materials will be available for use. Concepts being taught will include cutting, drilling, sanding, finishing and project design in both wood and plastics, and we have an assortment of tools on which to learn. A project or projects will be required. A cost will be incurred for materials for the project or projects of approximately \$30. This class qualifies as a prerequisite for T.S.A. Manufacturing.

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#### **Materials Processing II**

Prerequisite: Materials Processing I with a recommended grade of 75% or higher in all prerequisites and/or teacher recommendation

This class expands upon the experiences students received in Materials I. Students will continue to develop their skills and learn new techniques based upon the projects that they choose to design and construct. More advanced techniques and procedures will be taught, and students will have a better understanding of the complex systems involved in the manufacturing and production processes. Students will choose (with instructor approval), design and construct projects using the skills and techniques taught in this course, as well as previous classes in the materials path. A project or projects will be required. A cost will be incurred for materials for projects, cost will vary per student.

#### **Electronics Technology**

Prerequisite: Computer Aided Drafting and Design (CADD), or Materials Processing I; Algebra I with an 80% or higher

This is an introductory course to the basic fundamentals of electricity and electronics. Students use circuit training labs with a variety of electrical tools and electronic measuring devices to build and understand electronic circuits. Course concepts are explored through simulation software, prototyping circuits, and printed circuit board projects. Students will also construct and take home small electronic kits. This class would be useful for any student planning a career in electrical or electronics related fields. The content is core to an engineering foundation. A \$20 lab fee will be charged. Additional fees may be applied to choice projects.

This course has a 4 credit articulation with Harrisburg Area Community College mechatronics programs of study.

#### **Engineering and Design**

Prerequisite: This is a Level 1 Course for Engineering POS

Engineering and Design explores how things are made and how they work. It is an introduction to the human made world through a variety of hands-on projects applying Science, Technology, Engineering and Mathematics (STEM). Students use computers, tools and machines to design and construct projects such as toy cars, rockets, steam boats, bridges, and small lights. The course provides a formal introduction to technology- the ways in which people use tools, resources, information, and "know-how" to solve practical problems. Emphasis is placed on the technological design & problem solving process with an engineering perspective. Students explore the contributions and impacts of technology, modern manufacturing, as well as career opportunities in technical and engineering fields. **A \$20 lab fee will be charged.** This class qualifies as a prerequisite for T.S.A. Manufacturing.

#### **Digital Electronics**

Prerequisite: Electronics Technology, Algebra 2 or higher, Trigonometry (recommended)

Digital Electronics and Devices is the second level study of electronic technology. This course examines the fundamentals of electronic circuits and devices used to detect, process, and control electrical signals. The course continues the study and application of semiconductors and linear electronic circuits introduced in Electronics Technology. It also introduces students to digital concepts and circuitry used in automation, mechatronics, robotics, computers and telecommunication systems. Students will work individually and collaboratively on project based labs, computer simulations, and hands-on robotic activities. Upon completion students would be prepared to take the optional Student Electronics Technician certificate exam. A \$20 lab fee will be charged.

This course has a 3 credit articulation with Harrisburg Area Community College mechatronics programs of study.

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#### T.S.A. Manufacturing

#### Prerequisite: 11th or 12th grade standing; Computer Aided Drafting and Design (CADD) + Materials Processing I and one or more of the following: Mechanical Drafting and Design, Engineering and Design, or Materials Processing II

Manufacturing builds upon the knowledge and skills acquired in Mechanical Drafting and Design, Materials 1, and Engineering and Design. Students function as members of the Technology Student Association leadership core, while exploring the basic concepts of manufacturing to understand, develop and operate several manufacturing systems that create real products. Through lecture, classroom activities, and close ties to the local manufacturing industry, students will be introduced to production engineering, planning and control, computer aided design and manufacturing, Total Quality Management, ISO standards, and Lean manufacturing. Students will have the option to complete the OSHA 10 Hour General Industry Training Certification. Students will be required to enter one of the TSA regional engineering/manufacturing competitions in February. (The competition is held outside of school hours)drone

#### T.S.A. Robotics Engineering

Prerequisite: 11th or 12th grade standing; Computer Aided Drafting and Design (CADD) + Materials Processing I and one or more of the following: Mechanical Drafting and Design, Engineering and Design, or Materials Processing II

The Technology Student Association (TSA) fosters Science, Technology, Engineering and Mathematics (STEM) Education through personal growth, leadership, and opportunities in Technology, Innovation, Design, and Engineering (TIDE). TSA Robotics Engineering is a specific STEM/TIDE leadership course for 10th–12th grade students who are interested in the design, engineering, and programming of robots and associated careers. They focus on the construction and programming of autonomous mobile robots in a lab based hands-on setting. The course follows Autodesk's VEX Robotics Curriculum using a variety of activities to build and test increasingly more complex mobile robots on the VEX EDR & VEX V5 ROBOTICS Design platforms. Students are required to compete as a team with their robots at 1 public robotic design competition. (All competitions occur outside of the regular school day).

#### Introduction to Drone Technology and Applications

Prerequisite: 11th or 12th grade standing. Students must be 16 years of age or older by the course's conclusion to be eligible for certification. No prior experience with drones is required

This course provides an introduction to drone technology and its expanding role across various industries, including architectural design, construction management, agriculture, and forensic sciences. Students will explore how drones are revolutionizing data collection and analysis methods, enhancing current techniques, and expanding capabilities in these fields. Topics include drone safety, data collection instrumentation, analysis software, and hands-on flight operations.

The course also prepares students for the FAA Part 107 certification, which is a requirement for commercial drone operation in the U.S. The certification exam is optional, and students are responsible for the exam fee of \$165. Students must be at least 16 years of age to be eligible for certification. Financial assistance may be available for the FAA Part 107 certification exam.

Participants in this course have the option to earn up to 2 college credits from Harrisburg University contingent upon acceptance of the application and payment of reduced tuition.

#### 1 Credit

1 Credit

#### Introduction to Geographic Information Systems (GIS) / FAA 107 Drone Certification Prerequisite: CADD or Architectural Drafting and Design

Students will learn to use GIS to produce high-quality maps that expose complex spatial information and relationships in

Students will learn to use GIS to produce high-quality maps that expose complex spatial information and relationships in a clear and easy-to understand display. Cartographic concepts and techniques, used to create not only hard copy printed maps but also prepare cartographic data for modern devices such as web pages and digital media, are explored. The class emphasizes laboratory work and a final project that uses GIS from an initial map concept, through data collection and analysis, to a final product. Students will explore the use of drones as related to GIS and civil engineering and prepare to take the FAA 107 certification exam.

Students must be 16 years of age or older by the end of the course to be eligible for the FAA 107 Certification. Students have the option to take the FAA 107 Exam and are responsible for the fee of approximately \$165. Financial assistance may be available.

Participants in this course have the option to earn 3 college credits from Harrisburg University contingent upon acceptance of the application and payment of reduced tuition of \$600. Application occurs midway through the course.

#### Film and Studio Production I

Prerequisite: Multimedia I and/or Teacher Recommendation

This course is designed to provide students with real-life work experience while heightening awareness of the influence that visual media has on our lives. Focusing on the actual production of a show and film every student will perform job-specific roles such as producer, screenwriter, director, production designer, cinematographer, editor, and talent/actor to prepare them for the various fields in film. Students will create short films, documentaries, transmedia, and be directly responsible for the weekly production of the school studio. A \$10 fee will be charged for materials. A \$60 fee will be charged for certification (optional).

#### Film and Studio Production II

Prerequisite: Film and Studio Production I with and 80% or higher

This course is designed to provide students with real-life work experience while heightening awareness of the influence that visual media has on our lives. Focusing on the actual production of a show and film every student will perform job-specific roles such as producer, screenwriter, director, production designer, cinematographer, editor, and talent/actor to prepare them for the various fields in film. Students will create short films, documentaries, transmedia, and be directly responsible for the weekly production of the school studio. Students in this course will be working to create original sound through the use of foley art. A \$10 fee will be charged for materials. A \$60 fee will be charged for certification (optional).

#### Advanced Film and Studio Production

Prerequisite: Film and Studio Production II with an 80% or higher

This course is designed to provide students with real-life work experience while heightening awareness of the influence that visual media has on our lives. Focusing on the actual production of a show and film every student will perform job-specific roles such as producer, screenwriter, director, production designer, cinematographer, editor, and talent/actor to prepare them for the various fields in film. Students will further their learning by collaborating with industry professionals when creating their productions. Students in this class will be expected to work primarily in Adobe After Effects and Animate to create and accent work for Adobe Premiere. A \$10 fee will be charged for materials. A \$60 fee will be charged for certification (optional).

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#### Immersive Video Game Design I

Prerequisite: Graphics Communications I or Multimedia I and/or Teacher Recommendation

This course focuses on the creation of an immersive video game. Students will use basic computer programming to design and code characters to complete an elaborate, multi-stage, storyline with multiple outcomes within virtual reality software. Students in this course will learn the basics of coding, graphics, storyboarding, video game design, marketing, as well as career expectations. A \$60 fee will be charged for certification (optional).

#### Immersive Video Game Design II

Prerequisite: Immersive Video Game Design with an 80% or higher

This course focuses on the creation of an immersive video game. Students will use basic computer programming to design and code characters to complete an elaborate, multi-stage, storyline with multiple outcomes within virtual reality software. Students will be expected to leverage 3D character programs as well as programs in the Adobe Suite to personalize characters and animation. Students in this course will learn the basics of script coding, building 3D graphics, using grids and planes, as well as career expectations for the field. A \$60 fee will be charged for certification (optional).

#### Advanced Immersive Video Game Design

Prerequisite: Immersive Video Game Design II with an 80% or higher

This course focuses on the creation of an immersive video game entirely from scratch. Students will use advanced computer programming to design and code characters to complete an elaborate, multi-stage, storyline with multiple outcomes within virtual reality software. Students in this course will learn how to incorporate obj and fx packages into third party gaming platforms while creating their own 3D graphics from the ground up in programs like blender. Students will also focus on marketing as well as career expectations of the field. A \$60 fee will be charged for certification (optional).

1 Credit

1 Credit

#### Chairperson – Ms. Ridinger Department Members – Ms. Baker, Mrs. Bales, Mrs. Deckert, Ms. Glover, Mrs. Marconi-Bowman,

Dr. Roper, Mr. Turner, and Ms. Turner

English

The English curriculum for grades 9-12 integrates language and real-world experiences through reading, writing, speaking, listening, research, and critical thinking. The English program is designed to teach our students to read critically, to write with clarity and coherence, and to develop discerning listening and viewing skills. Reflecting the individual differences and learning needs of students, the English program stresses the need for independent reading and technology-rich learning experiences. The English Department utilizes various methods of assessment consistent with the goals of the Pennsylvania State Keystone Standards.

#### 9-10 COURSE OPTIONS IN ENGLISH

#### World Literature 9

The course is the study of world literature through the lens of literary genres: short stories, poetry, drama, nonfiction, and the novel. Students focus on an integrated approach to language arts skills by connecting the literature selections to reading comprehension, vocabulary, grammar, mechanics, writing and critical thinking activities. The writing process model is used throughout the course to concentrate on the narrative, informative, and persuasive styles of writing.

#### **Accelerated World Literature 9**

Prerequisite: 8th grade Reading and Writing PSSA Exam score of advanced or proficient, a grade of 88 or higher in the previous year's English course, and a recommendation from the previous year's English teacher

This course provides an accelerated approach to the study of world literature through the lens of literary genres: short stories, poetry, drama, nonfiction, and the novel. Students focus on an integrated approach to language arts skills by connecting the literature selections to reading comprehension, vocabulary, grammar, mechanics, writing and critical thinking activities. The writing process model is used throughout the course to concentrate on the narrative, informative, and persuasive styles of writing.

#### **American Literature 10**

Prerequisite: World Literature 9 or Accelerated World Literature 9

This course involves the study of American literature and emphasizes skills acquisition and practice. Through the study of fiction and nonfiction texts, students will develop and practice their skills in reading comprehension, literary analysis, and rhetorical analysis, and vocabulary in addition to writing, vocabulary, and critical thinking skills to prepare students for the Literature Keystone and beyond. GASD requires that 10th grade students take the Keystone Literature Exam.

#### **Accelerated American Literature 10**

*Prerequisite: A grade of 88 or higher in the previous year's English course, and/or a recommendation from the previous year's English teacher* 

This course involves, at an accelerated pace, the study of American literature and emphasizes skills acquisition and practice. Through the study of fiction and nonfiction texts, students will develop and practice their skills in reading comprehension, literary analysis, and rhetorical analysis, and vocabulary in addition to writing, vocabulary, and critical thinking skills to prepare students for the Literature Keystone and beyond. GASD requires that 10th grade students take the Keystone Literature Exam.

Gettysburg Area High School 2025-2026

re Exam.

1 Credit

#### 1 Credit

1 Credit

#### **Advanced Placement Seminar 10**

Prerequisite: A grade of 88 or higher in the previous year's English course, and/or a recommendation from the previous year's English teacher

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. In May, AP students take a national exam that can earn them up to three college credits. All students are required to take the AP test and are responsible for the approximate cost of \$148. Financial assistance may be available.

\*GASD requires that 10th grade students take the Keystone Literature Exam.

#### **11-12 LITERATURE TERM COURSE OPTIONS IN ENGLISH**

#### Modern Novels

Prerequisite: World Literature 9 and American Literature 10

This course will focus on the development of critical thinking, writing, reading, speaking and listening skills through the structured analysis of up to four required contemporary texts, fiction and nonfiction. Students will use a variety of communication modalities to respond to the novels. Supplemental texts, such as short stories, plays, film, and poetry may be added to support the reading of the core novels. This course meets the literature requirement for 11th and 12th grade students.

#### **Monster Stories**

Prerequisite: World Literature 9 and American Literature 10

In this course, students will read and analyze stories exploring everything scary from epic monsters to creepy Gothic romances to scary dystopian societies. Through these unsettling literary selections, students will continue to develop and refine a variety of skills, including close reading and analysis of literary elements in a variety of genres: the novel, short story, and poetry. This course meets the literature requirement for 11th and 12th grade students.

#### **Multicultural Literature**

Prerequisite: World Literature 9 and American Literature 10

Explore some of the diverse cultures that exist in the United States. What is the history behind different cultures or ethnic groups? What are the experiences? How, and to what extent, have they assimilated into mainstream U.S. culture? What misunderstandings have arisen because of cultural differences? Through the use of literature and film, we will reflect on how experiences of immigration, assimilation, and marginalization have influenced the experiences of individuals and groups. We will examine how different realities and values shape our perception of the world and of each other. This course will focus on understanding and connecting to the messages within the literature, including short stories, poems, films, nonfiction, and novels from the non-traditional literary canon. This course meets the literature requirement for 11th and 12th grade students.

.5 Credit

1 Credit

.5 Credit

.5 Credit

# Gettysburg Area High School 2025

#### **Creative Writing and Publications**

Prerequisite: World Literature 9 and American Literature 10

This course is designed to expose students to the various forms of creative writing including expository, descriptive, convincing, and narrative writing. Students in this course will have the opportunity to write their own short stories, scripts, poems, speeches, and vignettes as if they were the author of their own book, blog, podcast, newspaper, or digital magazine. In this course, students will also have the opportunity for interdisciplinary collaboration in publishing software such as Adobe InDesign. Students who are interested in a career in some aspect of authorship, publishing, or mass communication should consider taking this course. This course meets the writing requirement for 11th and 12th grade students.

#### Professional and Technical Writing

Prerequisite: World Literature 9 and American Literature 10

This course focuses on building professional and technical writing and communication skills needed in many vocational, science, and engineering fields. APA format will be used. Employers demand people who can communicate ideas and/or concepts clearly, ethically, and with authority. Students taking this course will be able to build their communication skills in preparation for employment in a trade, technical, or engineering field as they apply writing and communication skills to real-world scenarios. This course meets the writing requirement for 11th and 12th grade students.

#### Writing to Persuade

Prerequisite: World Literature 9 and American Literature 10

Do you want to learn how to effectively survive a zombie apocalypse using your persuasive skills? Do you want to become a baloney detective: someone who tracks down and investigates the criminally illogical and misleading messages that you encounter in your online and real life? Do you want to better understand how the brain works and the connections between our biology and how our brains approach communication? If so, Writing to Persuade could be a meaningful course where you can build, write, and share persuasive arguments that communicate your opinions on a variety of relevant, real-world subjects and issues. Through analysis and evaluation of mentor texts in nonfiction, including essays, speeches, and images, you will understand and implement a variety of rhetorical moves, strategies, devices, and stylistic choices to optimize your influence as a persuader. This course meets the writing requirement for 11th and 12th grade students.

.5 Credit

.5 Credit

.5 Credit

#### Advanced Placement English 11: English Language and Composition

Prerequisite: Keystone Literature score of advanced or proficient, A grade of 88 or higher in the previous year's English course and teacher/counselor input

AP English Language and Composition is a rigorous, college-level course that provides students with the opportunity to study writing—essays, philosophy, and even fiction—through the lens of rhetoric. In this course, students are asked to think critically, develop and revise their own arguments, and read like a writer. This class encourages discussion, analysis, and debate around a variety of rhetorical texts. AP Lang. is for all students building an especially rigorous transcript and those interested in pursuing any field of study—not just future humanities majors, including law, the sciences, psychology, politics, business, and a variety of other writing-oriented fields. In May, AP students take a national exam that can earn them up to three college credits.

This course requires the completion of a pre-course assignment. Failure to complete this assignment will result in a grade penalty at the beginning of the semester. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### Advanced Placement English 12: English Literature and Composition

Prerequisite: A grade of 88 or higher in the previous year's English course and teacher/counselor input

AP English Literature and Composition is a rigorous course that provides the opportunity for intensive, reflective, and analytical approaches to a wide variety of literature. The course will emphasize and promote improved written and verbal communication skills necessary at the college level and beyond. This class encourages college-level discussion, analysis, and debate about literary selections. AP Lit is a good fit for students who want an especially rigorous college transcript. Students can also take AP Lit. to receive credit for freshman writing courses. In May, AP students take a national exam that can earn them up to six college credits.

This course requires the completion of a pre-course assignment. Failure to complete this assignment will result in a grade penalty at the beginning of the semester. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### College in the High School English I

Prerequisite: 11th or 12th grade standing.

This course will focus on the development of fluency in writing clear, forceful, effective prose and reading and responding to texts of various forms in an academic manner. Students will demonstrate their ability to recognize and use different writing strategies, including narration, description, comparison and contrast, analysis, definition, and argument for specific tasks and audiences.

If enrolled through the college, participants in this course could earn 3 college credits contingent upon acceptance of the application, meeting eligibility requirements and payment of the reduced tuition of approximately \$260.00 per course. Application to the college occurs through the course. Financial assistance may be available.

#### College in the High School English II

Prerequisite: 11th or 12th grade standing. CHS English I with a grade of 75% or higher

English II will build on its prerequisite English I with an emphasis on building connections to thinking, reading, writing, research, interpretation, and argumentation. This course will include exploring the school library resources to research and produce five to six informative or persuasive research essays. Students will be guided through the process of developing well-supported informative, argumentative or analytical essays, which will include locating and evaluating sources, note-taking, and narrowing the topic through the construction of annotated bibliographies. Students will generate a thesis, create an outline, and write a well-documented research paper following both MLA and APA guidelines

If enrolled through the college, participants in this course could earn 3 college credits contingent upon acceptance of the application, meeting eligibility requirements and payment of the reduced tuition of approximately \$260.00 per course. Application to the college occurs through the course. Financial assistance may be available.

1 Credit

1 Credit

1 Credit

#### Gettysburg Area High School 2025-2026

#### Journalism/Publications I-IV

Students will study all aspects of print and broadcast journalism, including history, law, and ethics, the role of the media in society and school, and the importance of a responsible press. Students will examine current events through the use of daily newspapers and the available online journalistic outlets. In this course, students will also have the opportunity for interdisciplinary collaboration as they produce and publish work done for the class. Students who are interested in a career in some aspect of mass communication should consider taking this course.

#### **Introduction to Film**

In this course, students will develop criteria for aesthetic awareness to enable them to analyze and evaluate film. In addition to covering the basics of mise-en-scene and the components of acting, directing, motion, sound, cinematography, and editing, students will examine how film affects viewers' thoughts, emotions, values, and lifestyles. The course traces the history of film to the present.

#### **Fiction Writing/Poetry Writing**

This course is for the student who has a strong interest in creative writing, either prose or poetry. Each student will develop a writing portfolio of creative work. Students will write daily producing a spectrum of creative work individually and in groups, ranging from multiple poetic forms, short stories, script writing, multimedia projects, flash fiction and the reading of several novels of their choice. In addition, all students must participate in the editing duties of our literary magazine Interrobang; submission of at least ten poems to the magazine for consideration; compete in the school-wide Poetry Out Loud annual competition that is held at the Majestic Theater; and perform in a Poetry Alive! Skit that takes poetry on the road around our building.

1 Credit

#### 1 Credit

# Family and Consumer Sciences Department

Chairperson - Mrs. Kriel **Department Members -**

Courses taught in the Family and Consumer Sciences Department provide practical, hands-on learning. Skills learned can be applied to both everyday life and career choices. Each course meets the requirements for Practical Arts Electives, Family and Consumer Sciences electives and selected electives unless otherwise noted.

#### **Culinary Arts**

This course provides an introduction to healthy eating, nutrition labeling, kitchen and food safety and sanitation; kitchen tools, equipment use and care, as well as proper techniques of food preparation. Culinary Arts includes food laboratory experiences.

#### **Global Cuisine**

#### Prerequisites: 10th, 11th, or 12th grade standing, Culinary Arts with a grade of 75% or higher

Students will explore the culture, customs, and cuisine of Germany, France, Italy, Israel, Africa, China, India, and Mexico and discuss their cultural diets. Students will explore food related language, common ingredients and food preparation techniques for each country or region as well as food traditions within U.S. regional cuisines. This course includes more advanced foods laboratory experiences and students should be willing to sample new foods.

#### **Baking and Pastry**

Prerequisites: 11th, or 12th grade standing, Culinary Arts with a grade of 75% or better; (teacher approval required)

This class will be a continuation of Culinary Arts and/or Global Cuisine and/or Food Ed where the focus will be upon theory and preparation of savory and sweet baked items utilizing more specialized and self-directed culinary skills within the food lab experience.

#### **Sports Nutrition**

Prerequisites: 10th, 11th, or 12th grade standing (teacher approval and general understanding of biology and basic nutrition is recommended)

This course is designed to provide students with a comprehensive understanding of nutrition's role in athletic performance and physical well-being. Students will learn about the science of nutrition, energy systems, macronutrients, and micronutrients, and how to tailor dietary needs for athletes. Students will be able to apply nutritional strategies to enhance sports performance, recovery, and overall health. Students will also explore topics such as hydration, supplementation, special dietary needs, and the impact of nutrition on different types of sports and fitness activities. This course includes lab experiences geared towards athletic nutritional needs.

#### **Clothing and Textile Arts I**

Students will explore textiles in relationship to natural and man-made fibers. This class lays the foundation for students to learn basic sewing principles and practice beginner sewing skills. Students will learn about fabric, sewing tools and equipment, hand and machine sewing techniques, and project construction while completing beginning level sewing projects. No experience required. Students are responsible for purchasing materials. Cost of materials is determined by individual projects selected by the student.

1 Credit

1 Credit

#### 1 Credit

1 Credit

#### **Clothing and Textile Arts II**

Prerequisites: Clothing and Textile Arts I

Students will expand their understanding of textiles and sewing principles learned in level I while improving sewing skills. This class allows for more flexibility when choosing intermediate level sewing projects based on interest and level of difficulty. There is also an opportunity to design and construct a recycled sewing project. Instruction is guided but self-paced. Students are responsible for purchasing materials. Cost of materials is determined by individual projects selected by the student.

#### **Fashion Design**

1 Credit Prerequisite: 10th, 11th, or 12th grade standing, Clothing and Textile Arts I or prior sewing experience with teacher approval

Students will learn about fashion history and designers, apparel/footwear/accessories design, and fashion trends. Students will have the opportunity to create several hands-on projects throughout the course. Students may be responsible for purchasing materials. Cost of materials will be determined by individual projects selected by the student.

#### **Interior Design**

Students will learn how to purchase, decorate, and furnish a home. They will have the opportunity to create several hands-on projects throughout the course. Units include housing, floorplans, design, furniture, interior construction, and landscaping. Students may be responsible for purchasing materials. Cost of materials will be determined by individual projects selected by the student.

#### **Human Development**

Prerequisites: 10th, 11th, or 12th grade standing

This course will examine human development throughout the lifespan. This course is designed for 10th - 12th grade students and is particularly beneficial as students prepare to enter the adult world of work and relationships after high school. Learn about the physical, social, emotional, and intellectual changes that individuals encounter in each of the 7 stages of life. Learn how interactions with the people and world around us shape our development along with strategies for supporting our own healthy development throughout life. This course is filled with opportunities to work collaboratively, connect course content to personal experiences, and explore developmental processes.

1 Credit

# Health, Safety, & Physical Education

Department Members – Mrs. Black, Mr. Kunkel, Mr. Laing, Mrs. Pompei, and Mr. Sieg,

#### Safety Education

Scheduled simultaneously with 10<sup>th</sup> grade PE

Driving tasks are highly stressed and real-life scenarios are discussed extensively. Particular emphasis is placed on the responsibilities that must be shared with other drivers. Students will also study first aid in conjunction with the classroom component of safety education.

#### Health

Scheduled simultaneously with 11<sup>th</sup> grade PE

Students will obtain necessary life skills and gain access to information that will help them become health-literate and to make healthful decisions throughout their life. Students will work through topics specific to the eight dimensions of wellness. These include social wellness, intellectual wellness, physical wellness, mental/emotional wellness, occupational wellness, spiritual wellness, environmental wellness, and financial wellness.

#### **College in the High School Health**

Scheduled simultaneously with 11<sup>th</sup> grade PE

This course offers a study of current knowledge concerning attitudes and practices which promote and maintain the present and future health of the individual and the community. The course emphasizes the prevention of disease and a positive health attitude. Nutrition, fitness, drugs, and sexuality are some of the topics discussed.

If enrolled through the college, participants in this course could earn 3 college credits contingent upon acceptance of the application, meeting eligibility requirements and payment of the reduced tuition of approximately \$260.00 per course. Application occurs through the course. Financial assistance may be available.

#### **Physical Education - Grade 9**

Scheduled simultaneously with Freshman Advisory/Career Exploration

Students in ninth grade will develop an understanding of the 5 components of fitness and their relationship to overall well-being. Skill related fitness is addressed in connection to a wide variety of sports and fitness. Students will chart scores to improve personal fitness levels through the use of Fitnessgram testing. We attempt to foster a positive environment that allows for success within a wide spectrum of ability levels.

#### **Physical Education - Grade 10**

Scheduled simultaneously with Safety Education

All tenth grade students will take Physical Education, every other day, in conjunction with Safety Education. Students will be introduced to new sports as well as review previously taught activities. Students will continue to chart scores and improve personal fitness levels through the use of Fitnessgram testing. By engaging in regular activity and exercise students will improve their overall physical health.

#### **Physical Education - Grade 11**

Scheduled simultaneously with Health or HACC Health

All eleventh grade students will take Physical Education, every other day, in conjunction with Health. Students will participate in a curriculum which includes advanced level tennis, badminton, volleyball, soccer, and basketball. Students will be introduced to activities and lifetime fitness. All students will be fitness tested using the national Fitnessgram test.

#### **Physical Education - Grade 12**

Scheduled simultaneously with Personal Finance

Intermediate and advanced skills, rules, and strategies are taught in individual and team sports. An emphasis is placed on lifetime fitness activities.

.5 Credit

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#### .5 Credit

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Gettysburg Area High School 2025-2026

# JROTC

#### Senior Army Instructor - LTC (Ret) Thomas Mohler Army Instructor - CSM (Ret) Kenneth Klein

Army Junior ROTC is a high school elective with the mission "To Motivate Young People to be Better Citizens." This course builds the life-long skills that every student needs for success in future life and career endeavors, focusing on the development of six core abilities:

- Apply critical thinking techniques Building capacity for life-long learning
- Communicate using verbal, non-verbal, visual, and written techniques
- Do their share as good citizens in the school, community, country, and the world
- Taking responsibility for their actions and choices
- Treat self and others with respect
- Increase Emotional Intelligence (EI) and Resiliency,

The leadership, management, and communications skills learned are useful for any future career. The JROTC program provides ample opportunities for Service Learning and community service.

While there is no military obligation associated with this course, students who elect to enlist in the military services may be eligible to advance up to two rank levels (branch dependent) if they have successfully completed two or more years of JROTC. Students who plan to go to college will gain practical leadership experience desired by many institutions of higher education. Students seeking an ROTC scholarship or nomination to a U.S. military service academy will have documented leadership experience.

Scheduling Note: For students who are committed to the JROTC program, please talk to the instructors and/or your school counselor about flexible scheduling options.

#### LET 1

LET-1 introduces the student to the JROTC program including its mission and goals, military customs and courtesies, rank and organization and integrated-curricular opportunities. The majority of this course is focused on providing the student with foundations for success including self-awareness; personal learning styles; study, communication and conflict resolution skills. LET-1 also provides an introduction to leadership theory and its application, while developing a disciplined and motivated member of a team.

#### LET 2

Prerequisite: LET 1 and Completion of the 9<sup>th</sup> Grade

LET-2 addresses achieving a healthy lifestyle including basic principles of good nutrition and drug awareness and fundamentals of first aid; introduces map reading skills and explores citizenship in American history and government, with a focus on the framing of the Constitution, and the rights and responsibilities of citizenship.

### LET 3

Prerequisite: LET 2 / completion of the 10<sup>th</sup> Grade

LET-3 builds on the previous two courses covering various leadership strategies including decision-making and problem-solving processes and additional foundations for success including public speaking, managing conflict, career/college exploration and planning; time-management; goals and goal setting; and financial planning. In LET-3 students assume leadership roles within the student chain of command.

#### LET 4

Prerequisite: LET 2 and LET 3 and Completion of 11th Grade

Let-4 is the capstone course in the JROTC program and both completes and integrates the previous instruction with a focus on applied citizenship and leadership. LET-4 students assume primary leadership roles and responsibilities within the student chain of command and mentor/assist younger students. LET-4 involves numerous individual and group projects.

## 1 Credit

1 Credit

1 Credit

## Mathematics

Chairperson – Mr. Godack

Department Members - Mrs. Bennett, Mr. Dolly, Mr. Groft, Arton, Mrs. Miller, Mr. Norton, Mrs. Orleski, Mr. Orner, Mr. Tesoriero, and Mr. Wil

### Ms. Horton, Mrs. Miller, Ms. Norton , Mrs. Orleski, Mr. Orner, Mr. Tesoriero, and Mr. Withers

#### **Gettysburg Area High School Mathematics Sequence**

- Please talk to your current math teacher and school counselor in order to make an informed decision about
  mathematics course sequencing. Eighth grade teachers will be making recommendations for placement based
  upon performance and final grades. It is recommended that all 9<sup>th</sup> grade students take 2 math courses unless
  enrolled in Algebra 2, Geometry or above. Please talk to your counselor about your academic goals before
  selecting only 1 math course.
- All students are required to complete Algebra 1A, Algebra 1B, and Geometry prior to graduation.
- ADVANCED PLACEMENT COURSES All math AP courses require the completion of a pre-course assignment. Failure to complete this assignment will result in a grade penalty at the beginning of the semester. All students are required to take the AP test and are responsible for the cost of approximately \$100. Financial assistance may be available.
- ACCELERATED COURSES All accelerated math courses require the completion of a pre-course assignment.
   Failure to complete this assignment will result in a grade penalty at the beginning of the semester.

#### **High School Calculator Policy**

All students enrolled in an accelerated math class are required to have a graphing calculator.

(Preferably from the TI-83 or TI-84 families)

It is recommended that all other students have a scientific calculator in addition to the use of DESMOS.

#### Mathematics Course Descriptions On-Level Mathematics Courses

#### Algebra 1A

Algebra 1A is the first course of a two course study of Algebra 1 concepts. It is designed to give the student a background in abstract reasoning where they will learn to translate problem situations into algebraic expressions and/or equations then learn techniques to solve/graph them. The graphing calculator will play an essential part in this course as a problem solving tool. Emphasis will be on applying algebra to real world problems. (9<sup>th</sup> graders that were not proficient in their middle school Algebra course may be placed in Algebra 1A to fully develop their Algebra skills before continuing in the high school math sequence.)

#### Algebra 1B

Algebra 1B is the second course of a two course study of Algebra after the completion of Algebra 1. All students that had Algebra 1 in 8<sup>th</sup> grade or above must take this course to complete the Algebra 1 standards. Continued emphasis will be on real world connections and the ability to solve problems using numeric, algebraic and graphical techniques. It is recommended that this course be scheduled in the same year that a student schedules Algebra 1.

\*Students will be required to take the state Algebra 1 Keystone exam at the end of the Algebra 1B or Accelerated Algebra 1B. The GASD requires that students demonstrate proficiency in Algebra through the Keystone Exam.

#### Geometry

Prerequisite: Algebra 1B

This course is designed to develop spatial awareness by making connections from concrete geometric examples to abstract concepts. Critical-thinking skills and real-world problems will be emphasized through the application of important postulates and theorems. We will study properties of congruency and similarity, parallel lines, angles, polygons, and circles. In addition to area and volume of plane and solid figures, trigonometric relationships also will be explored.

#### Algebra 2

Prerequisite: Algebra 1B and Geometry

Algebra 2 begins with a review of concepts and skills covered in Algebra 1B and leads into the study of transformations, operations with, inverses, regression and piecewise linear functions. These topics are then explored in several families of functions. These families include quadratic, polynomial and rational functions. The characteristics of these different families of functions are also addressed. This course will emphasize problem-solving techniques and engage the students in real-world applications of all functions studied.

#### 1 Credit

1 Credit

1 Credit

### **Trigonometry/Precalculus**

Prerequisite: Álgebra 2

This course begins with a review of Algebra 2 concepts for course and SAT preparation. Connections are emphasized on solving problems algebraically, graphically and numerically. Students study graphical transformations and their relationship to their equations including basic and rational functions. Building functions from functions, compositions and inverses of these basic functions are also studied. Relationships are made between the equations and graphs of the common family of functions, exponential, logarithmic and sinusoidal functions. Two units of study are devoted to application and analysis of trigonometric functions and their graphs.

#### Calculus

Prerequisite: Trigonometry/Precalculus

Take your algebra skills to a whole new level as you learn about derivatives and integrals. Calculus is the study of change and is an excellent companion to those students who enroll in Physics. Learn how to visualize and solve problems in three dimensions as well as finding slopes of nonlinear equations. This course is designed for the student who would like to have an overview of Calculus materials before taking the class in college. Note: Students who wish to take the Advanced Placement test should schedule AP Calculus.

#### Applied Mathematics

1 Credit Prerequisite: 11th or 12th grade standing. A student that has passed Algebra 2 or beyond is not eligible to take Applied Mathematics

Course is designed for students that have taken Geometry and are seeking an alternative to the college-bound mathematics track. Applied Mathematics is a project-based course where students learn to use mathematics effectively as a tool in their personal and consumer lives. Students will review and apply mathematical operations in various problem-solving situations. The course will explore concepts including, but not limited to, percentages, interest, personal finance, probability and statistics.

#### Statistics

Prerequisite: Algebra 2

Statistics is a course that is applicable to many fields such as psychology, business, actuarial sciences and other sciences. Learn correct techniques for finding samples and how to perform calculations on data to communicate the trend in the data. Gain a critical eye for interpreting graphs and reading research articles. Utilize the graphing calculator, to perform various operations and create visuals with ease.

#### **Accelerated Mathematics Courses**

Accelerated Algebra 1B (Previously Accelerated Algebra 1.5) Prerequisite: Algebra 1 in 8th grade with a 90% or higher; Teacher input based on 7<sup>th</sup> grade Algebra 1

This accelerated course is for 9<sup>th</sup> grade students only and is designed for the able student who has elected to accelerate his or her math program. Students must have completed middle school Algebra 1 in either 7<sup>th</sup> or 8<sup>th</sup> grade. This is the second half of the Algebra 1 curriculum started in 8<sup>th</sup> grade and is intended to prepare students for Accelerated Algebra 2. This course studies polynomials, systems of equations and expressions while focusing on applying the concepts to real world situations.

\*Students will be required to take the state Algebra 1 Keystone exam at the end of the Algebra 1B or Accelerated Algebra 1B. The GASD requires that students demonstrate proficiency in Algebra through the Keystone Exam.

#### Accelerated Geometry

Prerequisite: Accelerated Algebra 1B with a 90% or higher; teacher input

This course is designed for the able student who has elected to accelerate his or her math program. The course is designed to make connections from concrete geometric examples to abstract concepts and how they relate visually and spatially to the world around us. We emphasize subject specific vocabulary, communication, and application to real-world problems. Students are required to write formal and informal geometric proofs to rigorously justify conjectures and solutions. We will study and prove properties of plane and solid figures, regular and irregular shapes, circles, quadrilaterals and other polygons. Students will study basic trigonometric relationships and how they can be applied in a variety of settings. All students are required to successfully complete a pre-course packet to gain entry to the course.

1 Credit

1 Credit

1 Credit

1 Credit

## 1 Credit

38

#### Accelerated Algebra 2

Prerequisite: Accelerated Geometry with a 90% or higher; teacher input

This course is designed for the able student who has elected to accelerate his or her math program. The course is fast paced, beginning with an abbreviated review of the concepts and skills covered in Algebra 1A & 1B by way of the pre-course assignment. The course develops the student's mathematical maturity by emphasizing discovery lessons, student self- reliance, verbal precision, a readiness to look for general principles, and a questioning attitude. In this course the student will study several families of functions including linear, quadratic, polynomial, and rational functions. Time will be spent exploring several discrete mathematics topics, if time allows. The student will study the characteristics of, transformations of, operations with, inverses of, and regression of each family of functions. This course will also emphasize problem-solving techniques and engage students in real-world applications of all functions studied.

#### Accelerated Trigonometry/Precalculus

Prerequisite: Accelerated Algebra 2 with a 90% or higher; teacher input

This demanding course prepares students pursuing AP Calculus/AP Physics. A review of Algebra 2 skills will be completed in the pre-course assignment packet. Problem solving and applications are explored for all units of study throughout the course, while emphasis is placed on solving problems algebraically, graphically and numerically. The students will be exposed to radical, exponential, logarithmic and sinusoidal functions. The key features of all as well as their applications will be explored. Relationships are made between the equations and graphs of the exponential, logarithmic and sinusoidal functions. Two units of study are devoted to application and analysis of trigonometric functions and their graphs. Series and sequences will be explored and an introduction to limits will be completed to prepare for AP Calculus.

#### Advanced Placement Calculus 1 (AB)

Prerequisite: Accelerated Trigonometry/Precalculus with an 85%; teacher input

Calculus is the study of change and motion. This is why this course is co-taught with AP Physics which students must be enrolled in as well. The Calculus course includes topics from differential and integral Calculus and is designed for able math students, especially those who intend to go into the field of engineering, physics or mathematics. This course will consist of a full academic year of work in Calculus and related topics comparable to courses in college. Our goal will be to follow the Calculus syllabus as recommended by the College Board. Students who take the AP course will be prepared and are required to take the AB Advanced Placement exam. All Students are required to take the AP test and are responsible for the cost of the approximately \$100. Financial assistance may be available.

#### Advanced Placement Calculus 2 (BC)

Prerequisite: AP Calculus 1 (AB) or Calculus; teacher input

AP Calculus 2 (BC) is a one- semester, spring only course in the calculus of functions of a single variable. It includes all topics covered in AP Calculus 1 (AB) plus additional topics including the study of parametric equations, polar forms and vector forms, improper integrals, polynomial approximations, and series. Students must fully complete AP Calculus 1 (AB) or Calculus (with teacher recommendation) to enroll in this course. **All Students are required to take the AP test and are responsible for the cost of the approximately \$100. Financial assistance may be available.** 

#### Advanced Placement Statistics

Prerequisite: Algebra 2; teacher input

The purpose of this course is to introduce students to the major concepts and methods for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, and Statistical Inference: Estimating population parameters and testing hypotheses. All Students are required to take the AP test and are responsible for the cost of the approximately \$100. Financial assistance may be available.

1.5 Credit

1 Credit

1 Credit

1 Credit

#### Chairperson - High School Chairperson- Mrs. Kriel Department Members – Mrs. Coolbaugh and Mr. Hofmann

The curriculum of the music department has been structured in a way that facilitates the continual development of each student. Students have the opportunity to study and participate in different types of musical organizations including band, chorus and orchestra. Through these opportunities they gain skills in performing with a group while increasing their individual skills and appreciation of music. Outside-of-school performances are required for Band, Orchestra and Chorus. In order to enroll, students must participate in all aspects of the course. The Band, Orchestra, and Chorus meet as a course for the entire year. The maximum number of credits earned in one year in music performance is 1 credit.

#### Instrumental Music – Band

Prerequisite: Audition and/or a grade of 75% or higher for returning students

The Concert Band is an instrumental ensemble open to all students grades 9-12 who wish to participate in the band program. This ensemble will provide students with the means to creatively express themselves through instrumental practice and performance of quality repertoire. Students will focus on technique, music theory, sight reading, and overall musicianship. This ensemble is open for students who play woodwind, brass, or percussion instruments.

#### **Music Theory -** Offered Every other year - Odd Years (2024-2025, 2026-2027 School years) 1 Credit Prerequisite: 11th and 12th grade; students must be in one of the performing groups OR be approved by staff

This class involves learning scales and chord construction, music, notation, harmony, ear training, applied listening, music history, and arranging for vocal and instrumental groups. Students planning a musical career will find this course helpful. Students must be in one of the performing groups OR take private lessons on an instrument.

#### **Music Technology and Recording**

This class will allow students to explore the world of creating digital music. Students will become proficient in using online programs including Soundtrap, Noteflight, Garageband, and Audacity. Students will create projects including commercials, music arrangements, and movie music. During this project-based learning experience, students will also learn and apply musical concepts taught in traditional settings including harmony, time signatures, dynamics, and expression, among others. Students will acquire the foundations for creating computer-based music using varied software technologies that will introduce and enhance their understanding of basic digital recording techniques. Students will also gain an understanding of and appreciation for the history and development of recording technology and sound recording. This class involves high rigor and independent work.

#### Instrumental Music – Orchestra

Prerequisite: Audition and/or a grade of 75% or higher for returning students

The Orchestra is one of the instrumental ensembles open to students grades 9-12 who play violin, viola, cello, or bass. This ensemble will provide students with the means to creatively express themselves through instrumental practice and performance of quality repertoire. Students will focus on instrumental technique, music theory, sight reading, and overall musicianship. Students who are interested in learning an Orchestra instrument should speak to Mrs. Kriel before signing up for this course. Wind players in the orchestra must be regular members in good standing with the Band.

#### **Concert Chorus**

Prerequisite: Audition and/or a grade of 75% or higher for returning students

The Concert Choir is one of the ensembles open to students grades 9-12. This ensemble will provide students with the means to creatively express themselves through vocal practice and performance of quality repertoire. Students will focus on vocal technique, music theory, sight singing, and overall musicianship.

**Voice -** Offered Every other year - Even Years (2025-2026, 2027-2028 School Years) Prerequisite: Involved in choir or approved by Mrs. Coolbaugh

This class will allow students to explore many aspects of their singing voice. We will work on practice techniques, vocal technique, sight-reading skills, basic music theory, IPA (international phonetic alphabet), and vocal pedagogy. This is a performance class and students will be required to perform a variety of vocal styles.

1 Credit

1 Credit

1 Credit

1 Credit

## Science

#### Chairperson- Mrs. Biggins

Department Members- Mr. Armor, Mr. Glassmann, Mr. Harvey, Mrs. Lain, Mr. Reese & Mr. Withers

Scientific literacy is essential in today's technological and data-driven world. Students and families are encouraged to create a sequence of science courses that can help them prepare for their future and also make them better consumers of information.

#### Earth Science

The Earth Science course will involve students in the study of the processes, cycles, and concepts that occur within Earth's spheres as well as the interaction of mankind and the Earth. This course will provide real-world experiences to encourage students to become scientifically literate and to understand the roles of society in this technological age. This course also contains ecological science concepts that will be necessary for the Biology Keystone Exam.

#### Accelerated Earth Science

Recommendation: Students will be recommended based on teacher input, student data including course grades, PSSA scores, and PVAAS projections.

The Earth Science course will involve students in the study of the processes, cycles, and concepts that occur within Earth's spheres as well as the interaction of mankind and the Earth at a faster pace and more in-depth than the standard Earth Science class. This course will provide real-world experiences to encourage students to become scientifically literate and to understand the roles of society in this technological age. This course also contains ecological science concepts that will be necessary for the Biology Keystone Exam.

#### Introduction to Agricultural Sciences

Agriculture Science investigates the various segments of science involved in agriculture. Specific studies include the history of agriculture and society, food science and marketing of products in America's largest industry, soil science, plant science and animal science. This course is a springboard for other classes in the agriculture curriculum. This course may be used as either elective or science credit in meeting graduation requirements.

#### Biology

Prerequisite: Earth Science, Accelerated Earth Science, or Intro to Ag Science

Biology is a laboratory-oriented course designed to acquaint students with basic biological principles. Biology incorporates five main topics: biochemistry, cell biology, genetics, evolution, and ecology. Scientific problem solving is emphasized throughout the course. Course objectives are achieved through classroom and laboratory work, critical thinking and cooperative learning exercises.

\*Students will be required to take the state Biology Keystone exam at the end of the course.

#### Accelerated Biology

Prerequisite: Earth Science, Accelerated Earth Science, or Intro to Ag Science

Accelerated Biology is a laboratory-oriented course designed to be an in-depth study of biological principles at a fast pace. Biology incorporates five main topics: biochemistry, cell biology, genetics, evolution, and ecology. Scientific problem solving is emphasized throughout the course. Course objectives are achieved through classroom and laboratory work, critical thinking and cooperative learning exercises.

\*Students will be required to take the state Biology Keystone exam at the end of the course.

Gettysburg Area High School 2025-2026

1 Credit

1 Credit

1 Credit

#### 1 Credit

#### Gettysburg Area High School 2025-2026

Environmental science is the study of natural ecosystems, human impacts on the environment, and sustainable management of the Earth's resources. Processes of the physical and biological environment are used as a basis for consideration of current environmental topics. Other areas covered include: energy consumption and global warming, water and air pollution, waste management, impacts of deforestation on biodiversity, and other environmental changes occurring on a global scale.

Prerequisite: 11th or 12th grade standing. Proficiency on the Biology Keystone Exam, Passing Grade in a Chemistry or

If enrolled through HU, participants (grades 10-12) in this course could earn 4 college credits from Harrisburg University contingent upon acceptance of the application and payment of reduced tuition of \$100 per credit. (Total cost Approximately \$400.00) To earn HU credits, students must earn a grade of a C or better. Application occurs through the course. Financial assistance may be available.

course. Financial assistance may be available.

Students will explore the microbial world around them, on them, and in them in an attempt to better understand the importance of these small interactions in their day-to-day lives. This course allows students to research a specific pathogen within each of the five pathogen classifications (i.e., Bacteria, Viruses, Parasites, Fungi, and Prions). Students who are interested in a health science career may find this advanced course helpful in their preparation for post-secondary training that may include medical imaging, nursing programs, pharmacy, and other medical related fields. Specific areas of study include:

- The human immune system (structure and function) •
- What is an infectious disease
- The five pathogens: Bacteria, Viruses, Parasites, Fungi, Prions

CHS HU ENVS 101 Introduction to Environmental Science - 4-Credit HU Course

- Epidemiology/host & pathogen interaction •
- Pandemics throughout history
- The effect of Disease on human history •

Physics Course; or in an Agriculture Pathway program.

#### Accelerated Infectious Disease Prerequisite: Biology

Recommendation: Students interested in a health science career. Students should take chemistry concurrently or prior to this course.

#### Recommendation: Students should take chemistry concurrently or prior to AP Biology.

This course is one semester only and is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. After taking the AP exam, some students may earn credit for a first-year Biology prerequisite or they may have fulfilled some other basic requirements and will be well-prepared for a College-Level Biology course. This course builds on the GAHS biology course that is a prerequisite. Students are expected to have exceptional lab skills and study skills. AP Biology follows the established curriculum as recommended

by the College Board. All students are required to take the AP test and are responsible for the cost of approximately \$100. Financial assistance may be available. In addition, we are also offering this course through Harrisburg University. If enrolled through HU, participants (grades 10-12) in this course could earn 4 college credits from Harrisburg University

Approximately \$400.00) To earn HU credits, students must earn a grade of a C or better. Application occurs through the

contingent upon acceptance of the application and payment of reduced tuition of \$100 per credit. (Total cost

Advanced Placement Biology / Harrisburg University Biology (Bio 102/Bio 103) Prerequisite: Biology; Proficient or Advanced on the Biology Keystone Exam.

1 Credit

1 Credit

1 Credit

42

### HACC CHS Anatomy and Physiology I (BIOL 121 - 4 Credit HACC Course)

Prerequisite: 11th or 12th grade standing. Biology or Accelerated Biology and Chemistry or Accelerated Chemistry

This course is intended for students who contemplate careers in Allied Health fields. Basic body organization, biochemistry, cytology, histology, integumentary, skeletal, muscular, and nervous systems will be studied.

This is a 4-credit HACC College in the High School courses, cost is approximately \$340.00. HACC establishes the course fee. Financial assistance may be available.

#### Chemistry

Prerequisite: Algebra I

First-year chemistry involves the study of the fundamental concepts that comprise this science. Emphasis is placed on atomic theory, chemical formulas and equations, the mole concept, stoichiometry, electronic configuration and the periodic table, the gas laws, chemical bonding, solutions, and introductory acid/base chemistry.

#### Accelerated Chemistry

Prerequisite: Algebra I

Accelerated Chemistry involves a more in-depth study of the fundamental concepts that are covered in the regular chemistry course. The class moves at an accelerated pace which allows for the inclusion of more material. This course is intended for high achieving students and may require the completion of a pre-course assignment.

#### **Advanced Placement Chemistry I**

Recommendation: Biology with an 85% or higher; Earth Science; Algebra II. A prior chemistry class is not required.

This is the first semester (fall) course of a two-semester program. This first-year chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. The course covers the same topics covered in the Accelerated Chemistry course as well as the AP Chemistry curriculum as recommended by the College Board. Students are expected to have exceptional lab skills and study skills.

Students taking AP Chem I are expected to take AP Chem II and take the AP exam in May at the conclusion of the AP Chem II class.

#### **Advanced Placement Chemistry II**

Prerequisite: Advanced Placement Chemistry I

This is the second semester (spring) course of a two-semester program. See the description for Advanced Placement Chemistry I.

## All students are required to take the AP test and are responsible for the cost of approximately \$100. Financial assistance may be available.

#### 1 Credit

1 Credit

1 Credit

1 Credit

#### **Physics**

#### Prerequisites: Algebra 1B and/or concurrent enrollment in Geometry

Physics is a computer-enhanced and laboratory-oriented course which focuses on explaining how and why things happen in the physical world. Mechanics, the study of motion, is the foundation of the course. Students will grow to appreciate that mathematics is the language used to explain these processes. A working knowledge of algebra is needed.

#### **Accelerated Physics**

Prerequisite: Concurrent or prior enrollment in Trig/Pre-Calc

Accelerated Physics involves a more in-depth study of the fundamental concepts that are covered in the regular physics course. The class moves at an accelerated pace which allows for the inclusion of more material. A working knowledge of trigonometry is needed.

#### **Advanced Placement Physics**

Prerequisite: Concurrently enrolled in AP Calculus.

Advanced Placement Physics covers the concepts of classical Newtonian mechanics. The course moves at an accelerated pace from an algebraic description to a calculus-based description of the physical world. Following the course description laid out by the College Board, students will prepare to take the AP Physics - C exam in May. All students are required to take the AP test and are responsible for the cost of approximately \$100. Financial assistance may be available.

#### **Physical Science**

Prerequisite: Algebra 1A and 1B; Teacher recommendation required

The Physical Science course is designed to continue student investigations of the physical sciences. Students develop problem-solving skills and a practical understanding of the scientific world revolving around concepts such as Structure & Property of Matter, Chemical Reactions, Forces and Motion, Types of Interactions, Definitions of Energy, Conservation of Energy and Energy Transfer, Relationship between Energy & Forces, Wave Properties and Electromagnetic Radiation.

1 Credit

1.5 Credit

1 Credit

## **Social Studies**

Chairperson – Mr. Sontheimer

Dept. Members – Mrs. Deckert, Mrs. Kubeck, Mr. Haines, Mr. Heiser, Mr. Houser, Mr. Jurney & Mr. Willard

The primary objective of the social studies program is to prepare thoughtful, active citizens who can function productively in a multicultural, rapidly changing, and increasingly interdependent world. The secondary objective is to encourage students to critically examine history, develop thesis-based arguments reflective of their independent thought, and write critical essays that incorporate historical research. The social studies program is committed to fulfilling both of these objectives in every required course it offers, as well as in many of its electives.

The social studies courses are founded upon the philosophy that a democratic society depends upon responsible, educated, citizens to make rational decisions. To that end, students are instilled with an appreciation for democratic values and the importance of their participation within that process, while cultivating respect and dignity for each human being. The social studies classroom, the school, and the community provide settings where students can explore questions dealing with history, social values, and behavior. The process of inquiry and freedom of expression, paramount to a properly functioning democratic society, are stressed, with an emphasis on toleration for all opinions.

Of the 3 required social studies credits, students are required to earn at least 1 credit in either American History or Government. All students are required to take a civics test for graduation. All students will be administered this test during their American History or Government class, <u>or</u> another designated time (E.g. Constitution Day).

#### **World Cultures**

This course focuses on studying how different world cultures, throughout history, have been impacted by geography, religion, imperialism, racism, conflict, revolution and the gains and losses of liberty and rights. The course explores Africa, the Middle East, the Americas, South and East Asia, and Europe.

#### **Modern American History**

Modern American History examines the political, economic, social, and cultural developments in the United States during the 20<sup>th</sup> and 21<sup>st</sup> centuries. The roots of these developments are analyzed, along with their connections to recent U.S. and world events, to prepare students to participate as educated American citizens.

#### Advanced Placement Human Geography (AP)

Prerequisite: 9th grade with 8th grade teacher recommendation only or 10th, 11th or 12th grade standing

This course explores how humans have understood, used, and changed the surface of the Earth. Students will use tools and thinking processes of geographers to examine patterns of human population, migration, and land use. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### **American Civil War**

Prerequisite: 10th, 11th or 12th grade standing

This course uses project-based instruction to examine the causes, events, concepts, effects, and aftermath of the American Civil War.

## 1 Credit

1 Credit

1 Credit

#### Advanced Placement World History (AP)

Prerequisite: 10th, 11th or 12th grade standing; 93% in previous GAHS social studies course, and/or teacher recommendation

AP World History is a year-long course that emphasizes themes and topics across the spectrum of human history from the year 1200 CE to the present. This course is significantly different from the World Cultures course offering a comprehensive examination of the world's history as it unfolded over time. The course requires students to read extensively, master thesis-based essay writing, and thoroughly examine primary source evidence in preparation for the AP exam. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### Advanced Placement United States History (AP)

Prerequisite: 10<sup>th</sup>, 11th, 12<sup>th</sup> grade standing; 93% in previous social studies course, and/or teacher recommendation

AP United States History is a year-long course that analyzes the entire scope of American history. The course requires students to read extensively, master thesis-based essay writing, and thoroughly examine primary source evidence in preparation for the AP exam. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### **Government and Economics**

*Prerequisite:* 11<sup>th</sup> and 12<sup>th</sup> grade standing

Responsible citizenship requires an understanding of the nation's economic system and governmental structures. The government component focuses on the functions of our federal, state, and local government. The economic component will cover decision making and how goods and services are produced, distributed and consumed.

#### Advanced Placement U.S. Government and Politics (AP)

Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> grade standing; 93% in previous social studies course, and/or prior successful completion of an AP course or teacher recommendation

AP Government is an intensive one-semester course that focuses on the national government and American political scene and culture. Students will focus on analyzing data and historical political events as well as primary sources to understand and evaluate the shifts and trends of the electorate of the United States. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### American History through Film

Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> grade standing; 75% in Modern American History OR AP US History

This class will aim to challenge students to question and evaluate the modern perception of United States history and how our understanding of history is affected by the manner in which we choose to learn about it. Our main focus will be the popular culture interpretation of history represented through featured films. Students will have the opportunity to view a variety of feature films and analyze, critique and review the story that is presented. Students will be encouraged to take into account multiple perspectives of each event and to dive deeper than the mainstream narrative to find a more holistic story. Our investigation will center on detecting bias and historical inaccuracies in our modern story and searching for motives as well as, deciding where in history the story became "lost in translation". In the end, the students will have had the chance to challenge the modern perception of our history and to provide their own insight on the value of films as a source of historical information.

#### 1 Credit

1 Credit

1 Credit

1 Credit

#### **Global Issues**

#### *Prerequisite:* 11<sup>th</sup> and 12<sup>th</sup> grade standing

This current events driven class will challenge students to consider their roles as citizens and voters with a variety of course topics and themes. The class will combine projects, media productions, and analysis of world issues centered on a set of common themes that will include: Development, Poverty, Gender Issues, Environmental Policy, Technology, Conflict, Economic Health, and Globalization.

#### Psychology

Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> grade standing

Psychology is the study of our behavior and thinking. Topics for this course will be the study of personality, learning, social-cultural differences, memory and psychological disorders.

#### Advanced Placement Psychology (AP)

1 Credit Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> grade standing; 93% in previous social studies course, and/or prior successful completion of an AP course or teacher recommendation

This course engages students in the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students thoroughly explore the major subfields within psychology and learn about the ethics and methods psychologists use in their science and practice. All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.

#### Sociology

#### Prerequisite: 11<sup>th</sup> and 12<sup>th</sup> grade standing

In this introductory course, students learn to use the sociological perspective to think critically and analytically about life and the world. The class will use readings, film, music and other pop culture sources to discuss and critically analyze topics such as race, class, gender, social movements, poverty, education, and globalization, and determine how these topics relate to current social issues. The ultimate goal of the class is to provide the students with the sociological tools necessary to identify social problems, consider possible solutions, and critically examine society and the individual's place in it. The complexity of the content in this course requires initiative on the part of students and is reading and writing intensive.

### **ELECTIVE COURSE OPTIONS IN SOCIAL STUDIES**

\*These courses will not count towards the 3 required Social Studies credits.

#### Law in Film

Prerequisite: 10th - 12<sup>th</sup> grade

Term one of Law in Film will look at the representation of law in films, with emphasis on the laws of evidence, with subunits in criminal law and tort law, students will be watching film and will be applying law to it, culminating with the trial of OZ, based on applying tort law to The Wizard of Oz. Term two of Law in film will focus on Intergalactic Super Law, which will teach the two great schools of law currently practiced globally, Civil Law and our own Common Law, with subunits in criminal law and tort law, students will be watching film and will be applying law to it. Focus will be on the Star Wars and Star Trek Universes for the larger topics, and the DC and Marvel Universes for the specific topics such as criminal law and tort law. Using these very familiar intellectual properties should make the more abstract, conceptual work of comparative law much easier.

#### **Performance Psychology**

Prerequisite: 10th - 12<sup>th</sup> grade

Performance Psychology is associated with the study of the psychological factors that contribute to performance. This class will focus upon the components necessary for individuals to excel to their fullest potential. The coursework will cover theory, research, and applied techniques across the fields of business, exercise physiology, the fine arts, military/team building, and sports psychology.

#### 1 Credit

1 Credit

1 Credit

1 Credit

### **World Languages**

#### Chairperson – Mrs. Tarja Wilson Department Members – Mr. Diehl, Ms. Ruebelmann, Ms. Tosh & Mr. Trone

Comparative research clearly demonstrates that the study of World Languages significantly raises PSSA and SAT scores in both English and mathematics more than any other subject does. The World Language program includes instruction in modern languages. Since the study of any language should foster insight into inherent humanistic values in an evolving world, the selection of the specific language study should be based on student interests and needs as well as those of the local community and nation.

World Language study helps students better understand their own language(s) as well as those of other people. Language study enhances insights into the thought patterns and social institutions of others; it facilitates communication; it prepares students for career opportunities; and it assists them in adapting to the multiethnic environments and value orientations of others within their society. The modern world requires individuals who are competent in languages.

#### French I

This course offers basic foundations in the development of the three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards. At the end of Level I, the students should be able to communicate in the target language according to the Novice-Mid proficiency scale. Oral communication is encouraged. Beginning cultural enrichment is also an aspect of this course. Primary sources and authentic materials will be utilized.

#### French II

Prerequisite: French I

This course offers an extension of the foundations introduced in Level I. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level II, the students should be able to communicate in the target language according to the Novice-High proficiency scale. Further cultural enrichment through reading, conversation, and writing will be stressed. Enrollment in Level II, in addition to other requirements, provides students the opportunity to travel abroad.

#### French III

Prerequisite: French II

This course offers an extension of concepts introduced in Level II. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level III, the students should be able to communicate in the target language according to the Intermediate-Low proficiency scale. Cultural awareness through reading, conversation, and writing will be stressed. Intermediate communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

#### French IV

Prerequisite: French III

This course offers an extension of concepts introduced in Level III. The three modes of communication – Interpretive, Interpresonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level V, the students should be able to communicate in the target language according to the Intermediate-Mid

1 Credit

1 Credit

1 Credit

proficiency scale. Cultural awareness through reading, conversation, and writing is emphasized. Advanced communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

#### French V

Prerequisite: French IV

This course offers an extension of concepts introduced in Level IV. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level V, the students should be able to communicate in the target language according to the Intermediate-High proficiency scale. Cultural awareness through reading, conversation, and writing is emphasized. Advanced communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

German I

This course offers basic foundations in the development of the three modes of communication: Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards. At the end of Level I, the students should be able to communicate in the target language according to the Novice-Mid proficiency scale. Oral communication is encouraged. Beginning cultural enrichment is also an aspect of this course. Primary sources and authentic materials will be utilized.

#### German II

Prerequisite: German I

This course offers an extension of the foundations introduced in Level I. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level II, the students should be able to communicate in the target language according to the Novice-High proficiency scale. Further cultural enrichment through reading, conversation, and writing will be stressed. Enrollment in Level II, in addition to other requirements, provides students the opportunity to travel abroad. Travel abroad is encouraged.

#### German III

Prerequisite: German II

This course offers an extension of concepts introduced in Level II. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level III, the students should be able to communicate in the target language according to the Intermediate-Low proficiency scale. Cultural awareness through reading, conversation, and writing will be stressed. Intermediate communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

#### German IV

Prerequisite: German III

This course offers an extension of concepts introduced in Level III. The three modes of communication –Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level IV, the students should be able to communicate in the target language according to the Intermediate-Mid proficiency scale. Cultural awareness through reading, conversation, and writing is emphasized. Advanced communication and structural skills are developed along with reading comprehension. This course is taught exclusively in German. Study abroad is encouraged.

#### German V

Prerequisite: German IV

This course offers an extension of concepts introduced in Level IV. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level V, the students should be able to communicate in the target language according to the Intermediate-High proficiency scale. Cultural awareness through reading, conversation, and writing is emphasized. Advanced communication and structural skills are developed along with reading comprehension. This course is taught exclusively in German. Study abroad is encouraged.

1 Credit

1 Credit

#### 1 Credit

#### 1 Credit

1 Credit

#### Spanish I

This course offers basic foundations in the development of the three modes of communication: Interpretive, Interpresonal, and Presentational in conjunction with the ACTFL National Standards. At the end of Level I, the students should be able to communicate in the target language according to the Novice-Mid proficiency scale. Oral communication is encouraged. Beginning cultural enrichment is also an aspect of this course. Primary sources and authentic materials will be utilized.

#### Spanish II

Prerequisite: Spanish I

This course offers an extension of the foundations introduced in Level I. The three modes of communication –Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level II, the students should be able to communicate in the target language according to the Novice-High proficiency scale. Further cultural enrichment through reading, conversation, and writing will be stressed. Enrollment in Level II, in addition to other requirements, provides students the opportunity to travel abroad.

#### Spanish III

Prerequisite: Spanish II

This course offers an extension of concepts introduced in Level II. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level III, the students should be able to communicate in the target language according to the Intermediate-Low proficiency scale. Cultural awareness through reading, conversation, and writing will be stressed. Intermediate communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

#### Spanish IV

Prerequisite: Spanish III

This course offers an extension of concepts introduced in Level III. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. At the end of Level IV, the students should be able to communicate in the target language according to the Intermediate-Mid proficiency scale. Cultural awareness through reading, conversation, and writing is emphasized. Advanced communication and structural skills are developed along with reading comprehension. Study abroad is encouraged.

#### **Advanced Placement Spanish**

Prerequisite: Spanish IV or Proficient Native Speaker

The Advanced Placement (AP) Spanish Language and Culture course emphasizes communication by applying the interpersonal, interpretive, and presentational modes of communication in real – life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. This course is taught exclusively in Spanish **All students are required to take the AP test and are responsible for the approximate cost of \$100. Financial assistance may be available.** 

1 Credit

1 Credit

1 Credit

#### 1 Credit

#### Spanish for Native Speakers I

Prerequisite: Native Spanish speaker

The course is designed for students who have had varying degrees of formal/informal exposure to Spanish while growing up. Students will learn how to prevent using interlanguage, or mixed utterances of English and Spanish. They will begin the process of writing, reading, listening and speaking Standard Spanish. Furthermore, they will learn to navigate life in two cultures.

This course will be taught entirely in Spanish. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are developed. At the end of this course, students will communicate in standard Spanish at the Intermediate level, according to their needs. Cultural literacy is expanded through various literary selections. The cultural component of this course will allow native speakers to learn more about American and Latino cultures and will provide strategies for coping with cultural differences.

#### Spanish for Native Speakers II

Prerequisite: SNS I or teacher approval

This course offers an extension of concepts introduced in Spanish for Native Speakers I. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are continually developed. The course is designed for students who have had varying degrees of formal/informal exposure to Spanish while growing up. Students will learn how to prevent using interlanguage, or mixed utterances of English and Spanish. They will continue to reinforce writing, reading, listening and speaking Standard Spanish. Furthermore, they will learn to navigate life in two cultures.

This course will be taught entirely in Spanish. The three modes of communication – Interpretive, Interpersonal, and Presentational in conjunction with the ACTFL National Standards are developed. At the end of this course, students will communicate in standard Spanish at the Intermediate and Advanced levels, according to their needs. This course includes an explanation of Spanish grammar rules and the orthography of Spanish. Cultural literacy is expanded through various literary selections. The cultural component of this course will allow native speakers to learn more about American and Latino cultures and will provide strategies for coping with cultural differences.

#### PA Seal of Biliteracy

The Pennsylvania Seal of Biliteracy (PASB) is an award given in recognition of students who can read, speak, listen and write at a high level in English and another world language, including American Sign Language.

#### **English Criteria:**

- Pro or advanced on Keystone Literature Exam
- 3 or Higher on AP Literature Exam
- English learners have met all criteria for reclassification by October 1st of their graduating year.

#### World Language Criteria:

- 4 or 5 on AP Language Exam
- Intermediate to High on Assessment of Performance toward Proficiency in Languages, including ASL
- Using the ACTFL Assessment of Performance toward Proficiency in Languages (a web-based proficiency and performance assessment.



## Adams County Technical Institute PROGRAM OVERVIEW

Adams County Technical Institute provides career and technical education to high school juniors and seniors from the Bermudian Springs, Conewago Valley, Fairfield, Gettysburg, and Littlestown school districts. Students who choose to learn in one of our eight programs spend half the day at ACTI engaged in hands-on learning while using industry standard tools and equipment. Each program allows students to gain industry certifications which measure competence in core content and performance standards in a specific set of work-related tasks that are connected to workforce demands.

In addition to creating talented members of the workforce, we partner with various Adams County businesses and organizations to offer internships and cooperative education to our students. Each of our programs allows the opportunities to earn post-secondary credits through dual enrollment and/or articulation agreements. Dual enrollment allows students to earn college credit and high school credit at the same time. These credits count towards a degree at the issuing college or can be transferred to other colleges. College credits can also be earned through local articulation agreements where students can earn credits for the issuing college only after successfully completing the two-year program. The SOAR Statewide Articulation, set up by the Pennsylvania Department of Education, is available at various community colleges in Pennsylvania.

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Industry Certifications	US Job Shadowing	Cooperative Education	Immediate Employment
	<b>O</b>		() SOAR Articulation
College Credits	🛄 Internships	Open-to-Public Learning	SOAR Articulation

# **Allied Health**



- Develop patient care skills used by practicing healthcare providers.
- Explore the anatomy, physiology, and pathology of the human body.
- Experience the healthcare environment through job shadowing and simulation experiences in the laboratory.

## **Building Trades**



- Operate professional power tools and equipment safely to build a wide range of projects.
- Establish industry safety skills through OSHA-30 certification in General Construction.
- Build a house using all skilled construction trades including framing, siding, roofing, electrical, masonry, plumbing and HVAC.



- Expand Your Optionsl Merge your career-tech experience and academic education to gain a powerful competitive advantage in today's new economy.
- Develop technical skills in the workplace within a desired occupational field.
- Experience work tasks and procedures related to future goals to help jumpstart your career.
- Acquire an entry-level paid position and earn an industry-recognized certification.

## **Computer Networking**



- Create PC's from parts from an empty case to a functioning system and configure the operating system on your custom-made computer.
- Turn a system into a server and transform a tangle of wires into a managed network.
- Expand your network into a wide area by connecting your domain to others, making sure to identify and troubleshoot problems as they occur.

# **Criminal Justice**



- Investigate community-oriented policing, community trust, and police ethics.
- Use current laws about arrest, search and seizure of evidence, legal definitions, constitutional issues, and case studies to jumpstart your criminal justice career.
- Develop skills in handcuffing, fingerprinting, securing a crime scene, collecting evidence, interviews and
  interrogations, report writing, and tactical medicine. Gain experience through job shadowing and scenario
  experiences in the laboratory.

## **Culinary Arts**



- Develop core culinary skills to unlock your inner food artist. Your canvas is a plate!
- Experience all aspects of running a restaurant by designing a menu and serving it in our open-to-the-public restaurant.
- Launch into a dynamic career including Executive Chef, Pastry Chef, Food Stylist, Food Scientist and more.

# **Diesel Technology**

### Find Your Future!

Use your career-tech experience to earn an above-average wage, pay for advanced training, and earn money for college.

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- Use modern tools and test equipment and disassemble and assemble diesel engines.
- Troubleshoot and repair vehicle electronics and electrical circuits.
- Experience what it is like to work in a diesel shop.

## **Early Learning**



- Inspire preschool children to learn kindergarten readiness skills.
- Engage in infant, toddler, elementary, and special needs classrooms.
- Discover best practices for caring for and teaching children birth 12.

## **Adams County Technical Institute**

Allied Health - Mrs. Penton Building Trades – Mr. Snyder Computer Networking - Mr. Kosmon Culinary Arts – Chef Schaffner Diesel Technology – Mr. Penton Early Learning – Mrs. Kehr Criminal Justice – Mr. Slimmer

#### www.acti-pa.org

The Adams County Technical Institute (ACTI) program is a two-year Career and Technical Education (CTE) program which is open to students from Bermudian Springs, Fairfield, Gettysburg, Littlestown and New Oxford high schools. Students apply to ACTI during 10<sup>th</sup> grade. ACTI classes are held on the campus of Gettysburg Area High School. Admission to ACTI is competitive. Students are admitted based on their application score and school district guidelines. ACTI staff visit the participating high schools during the fall semester to give sophomores information about our programs.

Students who choose to attend ACTI gain in-depth knowledge in a specific career area. They learn the theoretical foundations of the career field, then apply that knowledge through hands-on experiences. Juniors attend ACTI from 7:30 am – 9:30 am. Seniors attend ACTI from 12:00 noon – 2:35 pm. A  $12^{th}$  grade student may apply to ACTI, but preference is given to students in  $11^{th}$  grade.

After graduation, an ACTI student has multiple options. If a student chooses to enter the workforce, they are well prepared for their career in an entry-level position. If a student chooses to continue their education, they have a solid foundation and understanding as they enter a post-secondary program.

#### **Culinary Arts**

- Develop core culinary skills to unlock your inner food artist. Your canvas is a plate!
- Launch yourself into a dynamic Culinary Arts career including: Executive Chef, Pastry Chef, Private Chef, Food Stylist, Corporate Food Scientist and much more!
- Experience all aspects of running a restaurant by designing a menu and serving it in our open-to-the-public restaurant.

#### **Early Learning**

- Experience the joy of watching children learn and grow.
- Create exploratory experiences for preschool children.
- Participate in infant, toddler, elementary, and special needs classrooms.

#### **Allied Health**

- Develop patient care skills used by practicing healthcare providers.
- Explore the anatomy, physiology, and pathology of the human body.
- Communicate using medical terminology and language.
- Experience the healthcare environment through job shadowing and scenario experiences in the lab.

#### **Criminal Justice**

- Develop latent fingerprints using Forensic techniques.
- Use handcuffs to arrest a suspect.
- Manage evidence during a crime scene investigation.

Gettysburg Area High School 2025-2026

#### **Diesel Technology**

- Disassemble and assemble diesel engines.
- Troubleshoot and repair vehicle electronics and electrical circuits.
- Use modern tools and test equipment.
- Experience what it is like to work in a diesel shop.

#### **Building Trades**

- Operate professional power tools and equipment safely to build a wide range of projects.
- Build a house using all skilled construction trades including framing, siding, roofing, electrical, masonry, plumbing, and HVAC.
- Establish industry standard safety skills through OSHA-10 and OSHA-30 certification in General Construction.

#### **Computer Networking**

- Create PCs from parts from an empty case to a functioning system and configure the operating system on your custom-made computer.
- Turn a system into a server and transform a tangle of wires into a managed network. Investigate and determine what data does and does not traverse across your domain.
- Expand your network into a wide area by connecting your domain to others, making sure to identify and troubleshoot problems as they occur.

#### **Culinary Arts I**

(PDE CIP 12.0508 Institutional Food Workers) **Prerequisite:** Grade 11 or 12

Prepare for employment-related to institutional, commercial, self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experiences related to planning, selecting, preparing and serving of quality food and food products as well as sanitation precautions. Theory components include exploring the history of the foodservice industry, culinary math, Food Safety and Sanitation, purchasing and receiving and Menu Design. Lab classes cover knife skills, product identification, stocks, soups, sauces, starches, vegetable cookery, protein cookery, cooking methods and introduction to baking.

#### **Culinary Arts II**

(PDE CIP 12.0508 Institutional Food Workers)

Students continue to develop the skills needed to perform effectively in culinary arts and related occupations. Emphasis on the supervision and management of the food industry. Included; beverages and their impact on sales, banquet and buffet procedures, front of the house operations, table service, proper planning, bulk food production and execution of large scale restaurant functions, nutrition planning and receiving control, and menu design. Other areas of concentration are breakfast cookery, sandwiches and canapés, hors d'oeuvres, salads, garden manger, including pates, terrines, sausage making and curing meats. International and American Regional cuisine, ingredients, advanced baking, pastries and food presentation are included. Students have the opportunity to design, lead, and serve an open to the public luncheon.

Pennsylvania Department of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two year program.

4 Credits

#### **Early Learning I** (PDE CIP 19.0708 Child Care and Support Services Management) **Prerequisite:** Grade 11 or 12

Early Learning will prepare students with skills necessary for employment in any field involving children, including early childhood education, elementary education, pediatrics, and child care. Observations at local early learning facilities may be included throughout this course. Students will also receive training in Pediatric First Aid/CPR/AED. A physical and Mantoux TB test are required at the student's expense.

Early Learning II

(PDE CIP 19.0708 Child Care and Support Services Management)

Early Learning II students will have the opportunity to apply what they have learned in Early Learning I. Students will have the opportunity for field experience in various types of early learning settings, as well as our own student-run preschool.

Pennsylvania Dept. of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two year program.

#### Allied Health I

(PDE CIP 51.9999 Health Professions and Related Clinical Sciences) **Prerequisite:** Grade 11 or 12

#### Exploring Medical Language:

Medical Terminology is the study of frequently used medical terms, abbreviations, and symbols as found within their usual contexts. This course is approached through an integrative review of anatomy and physiology, common pathophysiological states, and related diagnostic tests and treatments (including an introduction to the metric system).

### Harrisburg Area Community College (HACC) currently offers students the opportunity to register for the following course while participating in the Tech Prep program. Students must meet all HACC admission requirements. BIO 105 – Medical Terminology (3 credits)

<u>Anatomy and Physiology:</u> This course focuses on the structure and function of the human body. Study includes body systems; what they are, what they do, and how they work together. Class investigates common disease processes associated with each body system

#### Allied Health II

(PDE CIP 51.9999 Health Professions and Related Clinical Sciences) Allied Health Science Technology

This course builds on the Level I experience and offers an introduction to Allied Health Professions, placing emphasis on such topics as the evolution and current status of healthcare delivery, various career opportunities, interpersonal and therapeutic communications, legal and ethical issues, and safety. An orientation to basic skills that are essential to the clinical setting is reinforced through laboratory sessions. The course is designed to provide an overview of the healthcare environment through clinical shadowing as well as the core skills and knowledge needed to provide safe and effective delivery of healthcare.

Harrisburg Area Community College (HACC) currently offers students the opportunity to register for the following course while participating in the Tech Prep program. Students must meet all HACC admission requirements. AH 140 – Allied Health (3 credits)

Pennsylvania Department of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two-year program.

#### 4 Credits

4 Credits

4 Credits

## **Criminal Justice I**

(PDE CIP 43.0107 Criminal Justice/Police) Level I Prerequisite: Grade 11 or 12

The course includes a general introduction into the criminal justice system. Included is the history, function, and the role of law enforcement, courts, and corrections in American society. Examine trends and issues in law enforcement including Constitutional rights and review court cases Explore use of force, deadly force, patrol procedures, criminal investigation techniques, and officer safety issues. Hands-on activities in officer safety, defensive tactics, arrest procedures, report writing, public speaking, report writing and the use of the Pa. Crimes Code and Vehicle Code. Students can participate in the College in the High School program through HACC and obtain 3 college credits in CJ101 Introduction to Criminal Justice if students meet HACC admission requirements.

#### **Criminal Justice II**

(PDE CIP 43.0107 Criminal Justice/ Police) Level II

Course expands the study of Police Operations, Criminal Law and Procedure, and Criminal Investigation. Emphasis is on the criminal justice system, criminal investigation, accident investigation, an introduction to forensic science, crime scene investigation, DUI investigation, and First Aid/CPR. Certifications available in the Management of Aggressive Behavior, Personal Protection Police Baton Tactics, Oleoresin Capsicum Aerosol Training, Practical and Tactical Handcuffing, and Personal Protection Defense and Control Tactics.

#### Students can participate in the College in the High School program through HACC and obtain college credits. Junior Year: 3 credits in CJ101 Introduction to Criminal Justice

Senior Year: 3 credits in CJ104 Police Operations and 3 credits CJ212 Criminal Law and Procedure

Pennsylvania Dept. of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two-year program.

#### Diesel Technology I

(CIP Code/Title: 47.0613 Medium/Heavy Vehicle and Truck Technology/Technician) Prerequisite: Grade 11 or 12

Program prepares individuals to apply technical knowledge and skills to repair and service diesel engines and diesel-powered equipment. Instruction is provided in diagnosis of malfunctions; disassembly of engines, fuel injection systems, oil and water pump, generators, auxiliary power units, and basic electrical. Technical manuals, the state inspection code, testing and diagnostic equipment and various hand and power tools are included in the program.

#### Diesel Technology II

(CIP Code/Title: 47.0613 Medium/Heavy Vehicle and Truck Technology/Technician)

Course expands on knowledge of technical manuals, hydraulic and air brake systems, electrical systems, steering and suspension systems, hydraulic fundamentals, powered axles and transmissions, state inspection code, testing, diagnostic equipment, forklift safety and operation training, and various hand and power tools. Students have the opportunity to shadow at facilities relevant to their career choice during the 3rd and 4th marking periods.

Pennsylvania Department of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two-year program.

4 Credits

4 Credits

4 Credits

Building Trades I (PDE CIP 46.9999 Construction Trades) Prerequisite: Grade 11 or 12

Students are taught the principles and industry practices related to the residential construction industry. Students receive instruction on safe tool operation, blueprint reading, masonry, framing, trim carpentry, electrical house wiring, interior and exterior wall finishing, plumbing, and heating and air conditioning.

#### **Building Trades II**

(PDE CIP 46.9999 Construction Trades)

Building Trades II is the lab practicum component to the Building Trades curriculum. Students will be onsite at the school district's designated work site practicing skills and techniques.

Pennsylvania Department of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two-year program.

#### A \$25 fee is required for the online OSHA 10 hour construction certification.

#### **Computer Networking I**

(PDE CIP 11.0901 Computer Networking and Telecommunications) **Prerequisite:** Grade 11 or 12

This course is aligned with Cisco's IT Essentials 6.0 curriculum. IT Essentials introduces students to the fundamentals of computer hardware and software, mobile devices, printers, security and networking concepts and the responsibilities and soft skills required to become an IT professional. By the end of the course, students will be able to describe the internal components of a computer and assemble a computer system, install and understand operating systems on computers and mobile devices, connect to the Internet and share resources in a networked environment, and troubleshoot using system tools, diagnostic software, and critical thinking skills.

Computer Networking I prepares students for the CompTIA A+ certification exam. During the spring, students will explore cybersecurity essentials, and the first section of CCNA (Cisco Certified Network Associate) training – Intro to Networking.

#### **Computer Networking II**

During Computer Networking II, students will complete the first two portions of CCNA (Cisco Certified Network Associate) training: Intro to Networks and Routing and Switching Essentials. The first semester covers network architecture, structure and functions. It also introduces students to the principles and structures of IP addressing and the fundamentals of Ethernet concepts, media, and operations. By the end of CNNA I, students will be able to explain network technologies, explain how devices access local and remote network resources, describe router hardware, explain how switching operates, design IP addressing schemes, configure initial network device settings, and configure monitoring tools. CCNA II: Routing and Switching Essentials covers the architecture, components, and operations of routers and switches in a small network. Students will be able to implement VLANs, static routing, DHCP, NAT, and ACLs.

This course prepares students for CompTIA Network+ certification and/or CCENT (Cisco Certified Entry Network Technician). Pennsylvania Department of Education "Programs of Study" articulations (9 credits) are available at various community colleges in Pennsylvania for those students who successfully complete this two-year program.

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#### 4 Credits

4 Credits

4 Credits