# ELIZABETH FORWARD HIGH SCHOOL



# PROGRAM OF STUDIES 2023 - 2024

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## ELIZABETH FORWARD HIGH SCHOOL

 $1000 \; Weigles \; Hill \; Road, Elizabeth, PA15037-2416 \; \boldsymbol{\cdot} \; 412-896-2349 \; \boldsymbol{\cdot} \; FAX: 412-384-2030 \; \boldsymbol{\cdot} \; www.efsd.net$ 

Mr. Michael Routh, Principal

Dear Students and Parents:

Elizabeth Forward High School's administration and faculty have prepared the 2023-2024 Program of Studies to assist students and parents in planning an appropriate educational program.

In addition to providing an overview of the academic program offered at Elizabeth Forward High School, this guide is intended to provide students and parents with information about school practices and policies; to assist students in making choices consistent with their aptitudes and interest; and to encourage them to make the best decisions relative to their post-high school plans. Please review this Program of Studies carefully and select courses that are of both a personal interest and consistent with a student's abilities and educational goals.

The school counselors work closely with students to assist and monitor student course selections and to identify student strengths, interests, aptitudes, and limitations. Parents should feel free to call the Guidance Department at (412) 896-2352 for any questions that may arise.

It is my hope that this guide assists you with the scheduling process while providing a significant amount of information about Elizabeth Forward High School's academic programs and graduation requirements.

Yours in education,

msouth.

Mr. Michael Routh

Principal

Inspire ~ Innovate ~ Imagine

#### Elizabeth Forward School District

#### Mission Statement

The mission of the Elizabeth Forward School District is to establish a collaborative working relationship with its families and communities to create learning environments for all students that nurture the academic, social, and emotional skills of each student through high expectations of excellence that produce lifelong learners, world-ready leaders, and citizens who are prepared to meet the ever-changing challenges of a global society.

The following are the values and beliefs that serve as a foundation for learning in the Elizabeth Forward School District. The Elizabeth Forward School District believes that:

- All students can learn.
- All students have the opportunity to maximize their potential.
- A caring, safe, and trusting environment is essential.
- All students have value and worth and are entitled to meaningful relationships with caring adults.
- The family provides the foundation for and instills the attitudes needed in assuring successful education and learning.
- All students have a right to high-quality curriculum and instruction that focuses on rigor and relevance.
- All teachers and administrators share an unrelenting commitment to excellence for all students.
- · Literacy is the foundation for all student success.
- Excellence in education is worth the commitment of time, effort, and money.
- All students will be prepared for a diverse, ever-changing global society.
- Education is the responsibility of the entire community and all benefit when people work together through open and honest lines of communication.

The Elizabeth Forward High School is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex, and handicap in its activities, programs, or employment practices as required by Title VI, Title IX, and Section 504. For information regarding civil rights or grievance procedures, contact Dr. Randal Sydeski, Title IX Coordinator, at 401 Rock Run Road; Elizabeth, Pennsylvania 15037-2416 (412) 896-2312.

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#### **Course Load**

Students are required to schedule a minimum of (7.00) credits per year.

#### **Graduation Requirements**

The Elizabeth Forward School District defines graduation on the basis of the following three criteria:

- 1. Completion of specific courses and credits with passing grades as defined below
- 2. Demonstration of proficiency in literature, mathematics, and biology as measured by state and/or local assessments

  \*\*See below under Keystone Exam Information
- 3. Successful completion of a senior project. This requirement will be incorporated into the English Curriculum.

Every student must completely fulfill all graduation requirements established by the Elizabeth Forward School District in order to commence and be awarded a diploma. Students, with an accumulation of a minimum of <u>24 of the 25 required</u> <u>credits</u>, may participate in commencement activities at the end of the school year but will not be awarded their diploma until 25 credits are attained.

The following course/credit requirements apply to all students. (Credits are totaled for grades 9-12.)

Total Credits	25	Credits
Building Bridges to My Future	.50	Credit
Honors Python Programming*		
Python Programming*		
GameMaker Programming I		
Coding 1		
The ElizaBYTE Academy	.50	Credit
Technology	.50	Credit
Health	.50	Credit
Physical Education	1	Credit
Arts or Humanities or both	3	Credits
Electives	3	Credits
Science	4	Credits
Mathematics	4	Credits
Social Studies	4	Credits
English	4	Credits

\*Retired course

	Definitions		
Core Subjects	Core Subjects English, Social Studies, Mathematics, and Science		
Electives	Electives Additional approved credit courses offered by the school district including vocational education courses		
Art	Art Visual arts, music theater, practical arts		
Humanities	Subjects that embrace literature/reading, foreign languages, or additional courses in English and Social Studies		
Technology	Subjects in the area of information technology and technology education, including coursework in the Entertainment Technology Academy		

#### **Keystone Exam Information**

\*\*Act 6 and Act 158 of Pennsylvania place new graduation requirements on students beginning with the Class of 2022. The new law expands options for students to demonstrate post-secondary readiness through four additional pathways that more fully illustrate college, career, and community outcomes. For students graduating in 2022 and beyond, the following options exist to meet statewide graduation requirements: Keystone Proficiency Pathway, Keystone Composite Pathway, Alternate Assessment Pathway, Evidence-Based Pathway, and CTE (Career & Technical Education) Pathway. Complete information is found on our high school website under the tab "Statewide High School Graduation Requirements."

Students are still required to take the end-of-course Keystone exams in Algebra 1, Literature, and Biology, and will be offered multiple opportunities to retake the exams if not proficient. Remediation courses are being offered as a support for all students who wish to improve their score. As the Pennsylvania Department of Education finalizes plans for future Keystone Exams or changes these graduation requirements, the High School Program of Studies will be revised to reflect the changes.

#### **Student Evaluation**

#### **Grading System**

The Board recognizes that a system of assessing student achievement can help students, teachers, and parents/guardians to understand and evaluate a student's progress toward educational goals and academic standards. Student progress and achievement will be reported by a marking system that represents five (5) levels of achievement. Each percentage is assigned a designated letter grade as follows:

Percentage	Letter	Meaning	
90-100	Α	Superior	
80-89	В	Above Average	
70-79	С	Average	
60-69	D	Below Average	
*50-59	F*	Failing and No Credit	
	I	Incomplete	
	M	Medical Excuse	
	WF	Withdraw with Failing Grade	
	FG	Failure due to Grading Policy	

<sup>\*</sup>All grades lower than Fifty Percent (50%) are recorded and calculated as Fifty Percent (50%) except when that grade is the result of significant absences or non-attendance. The grade is then recorded as Zero Percent (0%).

#### **Incomplete Grades**

Students receiving an "I" (Incomplete) grade will have two (2) weeks from the end of the grading period to make up the assigned work. If work is not completed in that two-week period, the grade earned for all completed work will be the resulting grade. In the case of a lengthy absence, the "I" grade will be reviewed by the teacher and/or building principal.

#### Information and Policies

#### **PE Medical Exemption**

If a student is physically unable to participate in Physical Education, a medical excuse from a doctor must be submitted to the school counselor the first week of class. A student with a non-participation medical excuse for Physical Education will be placed in a study hall for the duration of the medical excuse and must complete an alternative assignment as specified by the Phys Ed Teacher.

#### **Reports to Parents**

The school year is divided into four (4) report periods, each nine (9) weeks in length. Grades for the first three (3) marking periods will be reported online and students/parents will be mailed a report card following the quarter's conclusion. This final report card will be a summary of a student's achievements in each course for the entire school year.

#### **Passing Grades**

To pass a course, a student must meet all of the following criteria:

#### (A): Yearlong Course

- A student must earn a minimum of 240 percentage points to pass the course.
- A failing grade earned in M1, M2, and M3 will be recorded as a minimum of 50% or higher. If M4 is a failing grade, it will be recorded as the actual percentage (i.e.27%). Any exceptions will require administrative approval.
- A student must pass at least one of the final two grading periods (M3 or M4).

#### (B): Semester Course

- A student must earn a minimum of 120 percentage points to pass the course.
- A failing grade earned in M1 (or M3) will be recorded as a minimum of 50% or higher. If M2 (or M4) is a failing grade it will be recorded as the actual percentage (i.e. 27%). Any exceptions will require administrative approval.

#### Failure Due to Grading Policy

If a student fails a course due to grading policy the percentage will remain the same but the letter grade will be designated as an "FG" on the student's final transcript.

#### **Mid-Term Progress Reports**

If, by the middle of each term, a student has earned a failing grade or is in danger of failing the course area, an interim report, called "Mid-Term Progress Report," will be mailed to the parents or guardian during the fifth (5<sup>th</sup>) week of the reporting period. A Mid-Term Progress Report may be generated at <u>any time</u> during the grading period as circumstances warrant. This report is intended for both parents and students to be aware that a problem exists and that a communication or conference should be initiated by the parents or student with the instructor. School counselors are available throughout the day to assist students and parents. A conference with counselors or teachers may be arranged by calling 412-896-2352.

#### **Honor Roll**

The Honor Roll is prepared and reported for each nine (9) week's report period as determined by the student's Grade Point Average. Students <u>may not have a failing or incomplete grade</u> at the time of the grade report. To determine one's G.P.A., a numerical value is assigned to a letter grade as listed on the next page under <u>Grade Point Average</u>. Any student with a G.P.A. of 3.50 to 4.00 and above will be designated as earning *High Honors* status. Any student with a G.P.A. of 3.00 to 3.49 will be designated as earning *Honors* status.

#### **Graduation Honors**

A student will be recognized during the Commencement Program as an *Honors* graduate if he/she has a <u>cumulative</u> G.P.A. of 3.0 – 3.49 in grades 9, 10, 11, and 12. If the cumulative G.P.A. is 3.50 – 3.99, the student will be designated as having earned *High Honors*. If the student's G.P.A. is 4.00 or above, the student will be designated as having earned *Academic Distinction*.

#### **Early Graduation**

In rare cases students may accumulate enough credits to satisfy requirements in advance of their regularly scheduled graduation date. Students and their parents are required to notify their school counselor in writing at least one semester in advance of their anticipated graduation. The school counselor will then conduct a thorough transcript review and will make a recommendation to the building principal. In all cases, the building principal will give final approval. After permission is granted, the requirements for early graduation will be included in a written plan to be signed by the student, parent, principal, and school counselor. Please contact the guidance department with questions about the early graduation application process.

#### **Grade Point Average**

The Grade Point Average is a measure of a student's academic standing. To compute the quality points earned, each letter grade carries a given number of quality points as shown below:

Grade	Regular Scale Quality Points	Honors Scale  Quality Points	Advanced Scale  Advanced Placement /CHS  Quality Points
Α	4	4.5	5
В	3	3.5	4
С	2	2.5	3
D	1	1.5	2
F, WF, FG	0	0	0

To determine the end-of-year grade point average, the calculation is as follows:				
Course	Grade	<b>Quality Points</b>	Credits	Total
Course 1	Α	4	1	4
Course 2	В	3	1	3
Course 3	С	2	1	2
Course 4	Α	4	.5	2
Course 5 (Steel Center)	В	3	3	9
			6.5 Total	20 Total
Twenty (20) quality points divided by 6.5 course credits gives a year-end G.P.A. of 3.077.				

The <u>cumulative grade point average</u> is determined by dividing the total of all quality points earned by the total number of all credits awarded. For example, if a student attempted 18 credits and earned 45 quality points by the end of his/her junior year, the student's cumulative G.P.A. is 2.5.

#### Class Rank

The Elizabeth Forward School District does not calculate class rank.

#### **Student Attendance**

#### **Attendance**

Attendance in school is required by law and should be encouraged by the parents. The Public School Code defines compulsory school age as "the period of a child's life from the time the child's parent elected to have the child enter school and which shall be no later than 6 years of age until the child reaches 18 years of age." <u>Children are required by law to attend school until the child reaches their 18<sup>th</sup> birthday.</u>

Students have three (3) school days (upon return to school) to submit a written parent/guardian excuse. If a written excuse is not received within that time period, the absence will be marked permanently unlawful/unexcused. Students will have the opportunity to make up work when absent; however, upon the second and subsequent unlawful/unexcused absence, any work submitted or owed will be recorded as a zero (0). Absences beyond ten (10) written excuses by parent/guardian will require an excuse from a licensed physician. Upon the fourth (4th) unlawful/unexcused absence, a school-family conference will be held to develop an Attendance Improvement Plan to ensure regular attendance. A magistrate citation will be issued when a student accumulates six (6) unlawful/unexcused absences. Please refer to EFSD Policy #204 Attendance for more information.

#### **College Visitation**

Students visiting a post-secondary institution will be granted up to a total of four (4) days of excused absences. The student must submit a written excuse on the college letterhead upon return to school.

#### **Homework Assignment Requests**

Students are to make every effort to keep up with homework and other assignments when they are absent from school or class. It is the responsibility of the student to contact the teacher to determine what was covered during the absence. It is suggested that parents call the Guidance Office if their child is absent for more than one (1) day so that homework/assignments can be collected.

#### **Educational Vacation**

Students are permitted to take a family vacation with educational value during the school year. The following procedures must be followed:

- 1. The parent/guardian obtains and completes the necessary paperwork from the school office. (Must be submitted no less than 1 week prior.)
- 2. Once approved by the principal, the student then contacts his/her teachers and arranges for missed assignments during the time period for which he/she will be absent.

Family vacations, with educational value, will be granted for up to five (5) school days throughout the year.

#### **Guidance Department/Scheduling**

Jillian Monti School Counselor	Grades 10-12 A - Le	(412) 896-2346	jmonti@efsd.net
Joseph McManus School Counselor	Grades 10-12 Li - Z	(412) 896-2347	jmcmanus@efsd.net
Crista Scalfari School Counselor	Grades 8, 9 A-Z	(412) 896-2334	cscalfari@efsd.net
Natalie Scheiber Guidance Secretary	Grades 9-12 A-Z	(412) 896-2352	nscheiber@efsd.net

#### **Guidance Services**

The guidance department consists of three (3) school counselors and one guidance secretary. Their primary responsibility is to help students be successful academically, emotionally, and socially. This is done by working closely with teachers, parents, administrators, and other professionals.

Students typically see their guidance counselor about

- Academic progress
- College applications
- Financial aid
- Post-secondary planning
- Scheduling classes
- Scholarships
- Social/emotional issues
- Standardized testing

To schedule a meeting with the guidance counselor, students can stop by the Guidance Office or a parent can call the guidance secretary at (412) 896-2352.

#### **Course Limitations**

Course offerings will depend on the availability of staff, space, resources, and potential scheduling limitations.

#### <u>Scheduling Classes - Course Placement Recommendation Waiver Policy</u>

With the assistance of school guidance counselors, students, and their parents should select courses based on their academic interests, strengths, and goals. Several courses carry with them prerequisite courses and/or levels of achievement. Before enrolling in courses, the student should verify that he/she has met the necessary prerequisites. If, however, the student has not met the prerequisites but wishes to register for that course, he/she must complete a Course Placement Recommendation Waiver Form obtained from the Guidance Office, which will state that the student and parents understand that the student is taking the course against the recommendation of the faculty.

A **Course Placement Recommendation Waiver Form** is a contract between the student and parent(s) and the School District. It provides a course placement that supersedes the prerequisites of that course. The student may pursue such a contract. This action carries with it responsibility and accountability. Thus, the use of the waiver system may have consequences. Neither curricular content nor performance expectations of a course will be deleted or diminished to accommodate students with waivers.

#### Waiver Policy Procedures

The current teacher shares the course recommendation with the student. If the parent/student indicates intent to opt for a course other than the recommended course:

- 1. Communication is initiated by the parent and student to the appropriate School Counselor.
- 2. A meeting will be set up by the academic review team (counselor, administrator, and department head, if applicable).
- 3. Information will be shared with the parent and student regarding the recommendation procedure, student achievement, and past performance of students having waivers in the course being considered.

If a waiver contract is still desired, the waiver form is given to the student by the School Counselor. The signed waiver implies the acknowledgment of the conditions identified in the form.

- 1. A list of students with waivers is generated by the Counseling Office and is distributed to Administration. The list will be kept on file in the counseling office.
- 2. If a student does withdraw from a course (after the first 15 school days) for which a waiver contract has been signed, the student will receive a **WF**, and that grade will be **included in the GPA calculation**.

#### **Course Schedule Changes**

All schedule changes must be made before the end of the present school year. **No schedule changes will be made during the summer or when school begins.** 

The following exceptions will be made if

- 1. A student failed a subject and must repeat that course next year.
- 2. A parent believes that his/her child would benefit from a more challenging course in the same subject area and there is documentation to support this request.
- 3. A student's schedule is incorrect as a result of a clerical error.
- 4. A student has not completed or failed summer school.
- 5. A student is identified as having special needs and qualifies for certain adaptations/modifications under Federal Law.
- 6. A student has significantly changed his/her future plans and other coursework is necessary. **Note**: Written documentation by a college, trade school, or technical school is necessary.

#### **Withdrawals**

Student schedules are designed to meet a student's interests and academic goals. No student will be permitted to withdraw from a course if he/she is carrying a **minimum course load (7.00 credits per year)**. A student may withdraw from a course under the following conditions:

- 1. It does not reduce his/her schedule below the minimum yearly course load of 7.00 credits.
- The course is not required.
- 3. The student is identified as having special needs and the IEP Team determines that withdrawing from a course would benefit the student.

All withdrawals will adhere to the following:

- 1. A semester course will be designated as a "W" if withdrawal occurs within the first (1st) week of the class.
- 2. A semester course will be designated as a "WF" if withdrawal occurs beyond the first (1st) week of the class.
- 3. A yearlong course will be designated as a "W" if withdrawal occurs within the first (1st) week of the class.
- 4. A yearlong course will be designated as a "WF" if withdrawal occurs beyond the first (1st) week of the class.

#### Information and Policies

#### **Summer School**

Any student who fails a required course during the school year is encouraged to attend summer school for remediation. Students and parents should be advised that there is a fee for attending summer school that varies by summer school location. Students attending summer school in other school districts may apply for credit toward graduation if the following criteria are met:

- 1. Administrative/Guidance approval from the Elizabeth Forward High School is granted PRIOR to enrolling in any summer school course so that it can be determined if the course in which the student has enrolled will be accepted at and will satisfy Elizabeth Forward High School graduation requirements.
- 2. The summer school program meets all the requirements of the Pennsylvania Department of Education.
- 3. An official summer school transcript is submitted to the Elizabeth Forward School District immediately after completion of the course.
- 4. Students are permitted to earn a maximum of two (2) credits in summer school.

#### **Transcript Requests**

Seniors who are in the process of applying to college, trade, or technical schools must adhere to the following set of guidelines for completing applications:

- 1. Secure an application and complete all personal information.
- 2. Notify your counselor if the student completes an online admissions application
- 3. Obtain a "Request for Transcript" release form in the Guidance Office. The form must be signed by the student's parent/guardian.
- 4. All official transcripts must be mailed to the receiving school by the Guidance Office according to school policy.
- 5. Please allow your school counselor at least two weeks to review your college applications and to process all transcript requests.

**Note**: Additional information is provided on the Elizabeth Forward School District website.

\*\*\* Once a student has graduated from high school, only the graduated student can sign the transcript release form.

#### **High School Diploma**

Students are advised that the diploma granted upon graduation is **the only one**. Graduates should keep the diploma issued in a safe place, as **there is no copy or second diploma issued by the school district**.

#### **Privacy Rights of Parents and Students**

Elizabeth Forward School District and its employees are required by Federal Law and State and Federal Rules and Regulations to protect the rights of students. The foundation of these rights comes from Federal legislation entitled, Family Educational Rights and Privacy Act of 1974 (also known as the Buckley Amendments). There are State Rules and Regulations dealing with regular and special education students' rights and privacy. All students are covered by the State Regulations contained in Chapter 12 known as Students' Rights and Responsibilities.

Written parental consent is necessary for the disclosure of personally identifiable information and education records. The consent must (1) specify the records that may be disclosed; (2) state the purpose of the disclosure; (3) identify the party or class of parties to whom the disclosure may be made. Furthermore, Elizabeth Forward must maintain a written record of disclosure for the parents to inspect in case information has been released. For additional information, please consult http://www.ed.gov/Policy/gen/reg/Ferpa/index.html.

#### Curricula

#### Honors

Honors courses are rigorous courses that demand a high level of analytical reading ability and often lead to Advanced Placement studies. Students are required to spend a significant amount of time outside of class on coursework and may have summer assignments. Pre-AP and Honors courses are weighted (4.5) compared to a regular course (4.0).

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

Elizabeth Forward's Advanced Placement courses are approved by the College Board's Advanced Placement Program. These courses have the rigor of a college-level class and are taught by the Elizabeth Forward High School faculty. Students are expected to take the AP exam in May. The *approximate cost* of each AP exam is \$97.00 (AP Capstone is \$145.00). The school district will reimburse the students if they receive a score of five (5) on the exam. Scores will be reported to the district in the summer and reimbursement will occur in September.

PLEASE NOTE: Each **Honors and AP course** requires students to complete a summer assignment prior to the first day of school. If a student chooses to drop an Honors or AP class, they must do so by the last day of school in writing submitted to the guidance office. Students will not be permitted to drop the course simply because they did not complete the summer assignment. Students that don't complete the summer assignment will be given a "zero" for the incomplete coursework to start the year.

#### **Current AP Courses taught at Elizabeth Forward are:**

AP Biology	AP English 11 Language and Composition
AP Calculus AB	AP English 12 Literature and Composition
AP Calculus BC	AP European History
AP Capstone Research	AP Physics
AP Capstone Seminar	AP Pre-Calculus
AP Chemistry	AP Statistics
AP Computer Science A	AP U.S. History
AP Computer Science Principles	AP World History

#### The College-in-High-School Program (CHS) and Dual Enrollment (DE)

#### College-In-High-School:

The College-In-High School Program is designed to allow high school students to earn college credit(s), within a supportive high school environment, at a fraction of the cost of normal post-secondary tuition. College credit is earned at a reduced rate payable to the college/university at the beginning of the school year. Students can earn credit towards EFHS graduation requirements AND credit at participating local colleges/universities. College credits may be transferable to other institutions of higher learning. Please always check with potential institutions for their credit transfer policy. Upon successful completion of the course, students will receive college credit and their grade will appear on an official college transcript.

Be advised that we are not notified of final course approval until after our school year begins. Please speak to your school counselor for more information.

Elizabeth Forward High School has partnered with the following colleges/universities on CHS courses:

- La Roche University
- Seton Hill University
- University of Pittsburgh

#### **Dual Enrollment:**

Dual Enrollment (DE) enables students to take college courses on campus or through distance learning opportunities. Permission to participate in DE must be obtained by the Building Principal and School Counselor in advance of enrollment in DE at a local college or university. All tuition and fees, including student transportation, are at the expense of the student and family. As such, there are limited opportunities to take DE courses.

Courses available through CHS/DE at Elizabeth Forward High School are subject to change, without notice, by the sponsoring college/university or the school district. Please refer to the course catalog for information about specific CHS/DE offerings.

#### **Grading/Extra Quality Point**

Students enrolled in the Advanced Placement (AP) and Dual Enrollment (DE) classes are assigned an extra quality point to the grade earned each reporting period, Students enrolled in the Honors courses are assigned one-half (.5) quality points to the value of the grade earned each reporting period. The purpose of this is to recognize the additional requirements in these courses.

#### **Distance Learning**

With the changing technologies, Elizabeth Forward will consider offering courses not part of the traditional curriculum. These courses may be offered by neighboring school districts, universities, colleges, and virtual learning.

### **Support Services**

#### Faculty:

Brett Anselmino TBD TBD

Marc BelloraKatie GeisLarissa LeuenbergerJames CollHillary HaberstockMyah Winowitch

The Special Education program at Elizabeth Forward High School provides a continuum of services. The goal of the program is to provide services in the Least Restrictive Environment, which includes the regular class, co-taught classrooms, and direct instruction (resource room) classrooms. The district incorporates a variety of supplemental aids and services to help students succeed.

#### **Co-Taught Classes**

The co-taught class involves either two regular education teachers and/or a regular education and highly qualified special education teachers that work collaboratively to deliver and provide individual instruction when needed. The special education student that participates in a co-taught class benefits from being in the general curriculum both academically and socially.

#### **Direct Instruction**

The direct instruction class involves a special education teacher who is highly qualified for the content being taught in a special education resource room. This class will provide more opportunities to concentrate on specific behavioral, academic, and social needs in a smaller setting. Placement in a direct instruction class is based on student needs and is an IEP team decision.

#### **Gifted Education Program**

The Gifted Education program at Elizabeth Forward High School is designed to meet the needs of gifted students as defined by the PA Special Education law and regulations outlined in Chapter 16. The Gifted Education Program provides such students with a variety of enriching activities in an academically and socially supportive environment. Participants are encouraged to take challenging Honors, Pre-AP, CHS, and Advanced Placement courses. Students should consult with the Enrichment Facilitator and their Guidance Counselor to make the most of the valuable opportunities available to them.

#### **Hearing Support Program**

The Allegheny Intermediate Unit Hearing Support Programs provide hearing-impaired children with an education parallel to that of their hearing peers. The program develops optimum communication skills through sequential language acquisition. Children are placed in regular classrooms where their instruction is supplemented by itinerant speech, language, and other ancillary services.

#### Life Skills Support Program

The Life Skills Support class is a functional academic program emphasizing the development of the student's potential in personal/social skills, vocational, recreational, and community living skills. The curriculum is aimed at teaching the life skills needed to achieve self-sufficiency and to provide students with an opportunity to acquire these independent living skills at a pace appropriate to the student's abilities and needs. One example of this curriculum is the Practical Assessment Exploration System (PAES) program. PAES is a functional skills curriculum with an embedded assessment of vocational potential and employability skills. PAES identifies: 1) aptitude for community-based employment, 2) functional skills, 3) interests, 4) work behavior strengths and barriers to success. PAES is conducted in a simulated work environment within a classroom setting where students work on simulations of actual tasks performed on community-based jobs.

#### **Speech and Language Support Program**

The Speech and Language Support Program is provided to those students who have been diagnosed and require support for disabilities in these areas.

#### **Vision Support Program**

The Allegheny Intermediate Unit Vision Support Program provides support to diagnosed visually impaired students.

### Support Services

#### **Student Assistance Program (SAP)**

Elizabeth Forward High School provides a comprehensive Student Assistance Program (SAP). The SAP program is comprised of a core team of professionally trained student assistance members which includes:

- Counselors
- Teachers
- Social Workers
- Nurses
- Administrators
- Community Agency Liaisons

This team does not diagnose, however, they may recommend an assessment for a specific treatment. The goal of the Student Assistance Program is to provide early intervention and support services to students identified as having difficulties achieving success. This team identifies barriers to learning and then mobilizes school resources to provide appropriate treatment options. Referral sources include teachers, parents, nurses, principals, and administrators. Please contact the SAP Coordinator, Mrs. Kaila Miele, at (412) 896-2349 with specific questions or concerns related to this program.

#### **Activities**

Activities	Sponsor	Email Address
Academic League	Mr. Coll	jcoll@efsd.net
Bots IQ	Mrs. Duschek	aduschek@efsd.net
Choir/Vocal Music	Dr. Milliren	amilliren@efsd.net
Class of 2021 / 2022 / 2023 / 2024	Individual Class	Grades: 9,10,11,12
(student participation by grade level)	Sponsors	
Drama Club (Musical)	Mr. Benedek	jbenedek@efsd.net
Green Team	Mr. Day	mday@efsd.net
Instrumental Music (Band/Color Guard)	Mr. Spang	sspang@efsd.net
Interact Club	Ms. Mazurek	mmazurek@efsd.net
Intramurals	TBD	
Leo Club	Mrs. Wemyss	twemyss@efsd.net
MultiMedia Productions	Dr. Milliren	amilliren@efsd.net
Mock Trials	TBD	
National Honor Society	Mr. McManus	jmcmanus@efsd.net
Peer Tutoring	Various	
S.A.D.D.	Mrs. Kluegel	kkluegel@efsd.net
(Students Against Destructive Decisions)		
Spanish Honor Society	Ms. Thurston	athurston@efsd.net
S.G.A. (Student Government Association)	Dr. Spiegel	jspiegel@efsd.net
TSA (Technology Student Association)	Miss Campbell	ecampbell@efsd.net
The "Tribe" (Friendship Club)	Ms. Winowitch	mwinowitch@efsd.net

The Elizabeth Forward School District provides extracurricular activities for all students to complement its academic program. The purpose is to offer a wide variety of programs to get as many students involved so that they are well-rounded individuals and active participants, demonstrating pride in our school.

Athletics		
Fall	Cheerleading	
	Cross Country	
	Football	
	Golf	
	Soccer	
	Volleyball	
Winter	Basketball	
	Bowling	
	Hockey (Club-Sponsored)	
	Bowling (Club-Sponsored)	
	Indoor Track (Club-Sponsored)	
	Swimming	
	Wrestling	
Spring	Baseball	
	Softball	
	Track and Field	

The NCAA list of approved courses is also available on a website at www.eligibilitycenter.org. The NCAA can be reached by calling: <u>1-877-262-1492</u> Toll-Free. For more specific information regarding athletics, please contact our Athletic Director, Mr.Tim Guffey, at <u>tguffey@efsd.net</u> or by calling <u>(412) 896-2351</u>.

#### According to the PIAA Article X Curriculum, "eligibility' is defined as:

Section 1. To be eligible for interscholastic athletic competition, a student must pursue a curriculum defined and approved by the Principal as a full-time curriculum. Where required, this curriculum or its equivalent must be approved by, and conform to, the regulations of the State Board of Education and the Pennsylvania School Code, as well as any local policies established by the local School Board. The student must be passing at least four full-credit subjects or the equivalent. Eligibility is cumulative from the beginning of a grading period, must be reported on a weekly basis, and must be filed in the Principal's office. Where a student's cumulative work from the beginning of the grading period does not as of any Friday meet the standards provided for in this Section, the student is ineligible from the immediately following Sunday through the Saturday immediately following the next Friday as of which the student's cumulative work from the beginning of the grading period meets the standards provided for in this Section. Where a school is closed on a Friday for any reason, the Principal may, at the Principal's election, determine whether the student as of that day meets the standards provided for in this Section.

Section 2. To be eligible for interscholastic athletics, a student must have passed at least four full-credit subjects, or the equivalent, during the previous grading period, except as provided in Section 5. Back work may be made up, providing it is in accordance with the regular rules of the school.

Section 3. In cases where a student's work in any preceding grading period does not meet the standards provided for in Section 2, said student is ineligible to participate in interscholastic athletics for at least fifteen (15) school days of the next grading period where the school has four (4) grading periods per school year, or for at least ten (10) school days of the next grading period where the school has six (6) grading periods per school year, beginning on the first-day report cards are issued.

<sup>\*</sup>Refer to the complete PIAA Bylaws by visiting <a href="http://www.piaa.org/">http://www.piaa.org/</a>

#### **NCAA Approved Courses**

All students participating in athletics should be made aware that not all classes count towards the NCAA requirements. All student athletes that are planning to participate in an NCAA sport at the college level are required to meet the NCAA requirements. Please stop in to see your school counselor when planning your courses to avoid scheduling issues.

#### English

English 9, 10,11,12 Honors 11, 12 Pre AP 9, 10 AP English 11 AP English 12 Mythology Creative Writing Public Speaking AP Capstone Research AP Capstone Seminar

#### Social Studies

AP World History
AP European History
AP US History
Modern Western Civilization
American History
World Cultures
American Government
Economics
Psychology
Sociology

#### **Mathematics**

Academic Algebra 1
Algebra 1
Algebra 2
Algebraic Concepts with
Trigonometry
Probability & Statistics
Academic Algebra 2
Academic Geometry
Academic Trigonometry &
Pre-Calculus
Calculus
Honors Algebra 2
Honors Geometry
AP Calculus AB
AP Calculus BC

AP Pre-Calculus

**AP Statistics** 

#### **Science**

Biology
Honors Biology
AP Biology
Honors Anatomy & Physiology
Academic Physics 1
Academic Physics 2
Honors Physics
AP Physics C
Applied Chemistry
Chemistry
Honors Chemistry
AP Chemistry
Environmental Science

#### **Additional Courses**

French 1, 2, 3, Honors French 4 AP French 5 Spanish 1, 2, 3 Honors Spanish 4 AP Capstone Seminar AP Capstone Research

College Preparatory Curriculum (Sample)			
Grade 9	Credits	Grade 10	Credits
English 9/Pre AP English 9	1.00	English 10/Pre AP English 10	1.00
Modern Western Civilization	1.00	American History/AP U.S. History	1.00
Academic Algebra 1	1.00	Academic Algebra 2	1.00
Honors Algebra 2		Honors Geometry	
Biology/Honors Biology	1.00	Chemistry/Honors Chemistry	1.00
Foreign Language (1st year)	1.00	Foreign Language (2 <sup>nd</sup> year)	1.00
Building Bridges to My Future	0.50	Physical Education	0.50
Physical Education	0.50	Electives	1.50
The ElizaBYTE Academy/ Coding 1/	0.50	Health	0.50
GameMaker Programming I			
Electives	1.00		
Total Credits	7.50	Total Credits	7.50
Grade 11	Credits	Grade 12	Credits
English 11/Honors English 11/AP English 11	1.00	English 12/Honors English 12 or AP English 12	1.00
World Cultures/ AP U.S. History/ AP	1.00	American Government/Psychology,	0.50
European History/AP World History		Economics, or Sociology	
		A.P. European History/ AP World History	1.00
Academic Geometry	1.00	Academic Trig/Pre-Calculus	1.00
Academic Trig/Pre-Calculus		Calculus/AP Calculus	
AP Pre-Calculus & AP Statistics		Probability and Statistics/AP Statistics	
	2.00		
Academic Physics 1/Honors Physics/Honors	1.00	AP Physics	1.00
Anatomy & Physiology		AP Biology	
		AP Chemistry	
	<u> </u>	Anatomy & Physiology	
Foreign Language (3 <sup>rd</sup> or 4 <sup>th</sup> year)	1.00	Foreign Language (4 <sup>th</sup> or 5 <sup>th</sup> year)	1.00
Electives	2.50	Electives	2.50
Total Credits	7.50	Total Credits	7.50

<u>Foreign Language Information</u>: Elizabeth Forward School District does not require a foreign language to graduate; however, most colleges require study of a foreign language. The foreign language recommendation is often fulfilled through satisfactory completion of at least two (2) courses in the same language. However, please note that most colleges and universities encourage satisfactory completion of three (3) or more courses in the same language, as it demonstrates higher-order thinking skills, dedication to a subject area, and a diverse/challenging transcript. Furthermore, global awareness and effective communication skills are highly sought after in most professional/academic fields. See your school counselor for specific requirements for different colleges or universities.

#### **STEM Career Information:**

Students considering a STEM career should consider one or more computer science electives, including, but not limited to, Coding 1, Coding 2, Coding 3, AP Computer Science Principles, and AP Computer Science A.

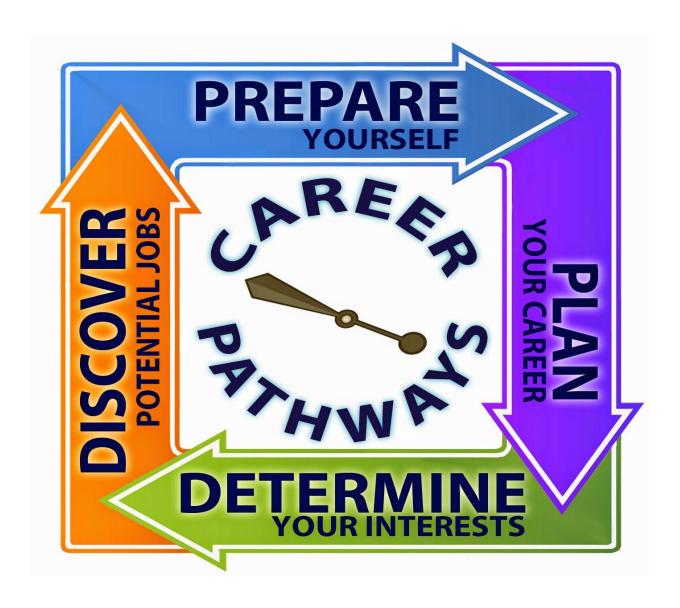
Career and Technical Education / Employment Curriculum (Sample)			
Grade 9	Credits	Grade 10	Credits
English 9	1.00	English 10	1.00
Modern Western Civilization	1.00	American History	1.00
Biology	1.00	Applied Chemistry/Academic Chemistry	1.00
Algebra 1	1.00	Algebra 2	1.00
Physical Education	0.50	Health	0.50
Building Bridges to My Future	0.50	Physical Education	0.50
The ElizaBYTE Academy/Coding 1/	0.50	Steel Center for Career and Technical	3.00
Game Maker Programming I		Education	
Electives	2.00		
Total Credits	7.50	Total Credits	8.00
Grade 11	Credits	Grade 12	Credits
English 11	1.00	English 12	1.00
World Cultures	1.00	American Government	0.50
Geometry	1.00	Sociology/Psychology/Economics	0.50
Applied Physics/ Academic Physics I	1.00	Environmental Science	1.00
Steel Center for Career and Technical	3.00	Integrated Math for the Workforce	1.00
Education		Algebraic Concepts/Trigonometry	
		Probability and Statistics	
		Electives	0.50
		Steel Center for Career and Technical	3.00
		Education	
Total Credits	7.00	Total Credits	7.50

#### Notes:

- 1. The Career & Technical curriculum is offered in cooperation with Steel Center for Career and Technical Education.
- 2. All programs are available to students beginning in their sophomore year. Decisions about participation for students with special needs will be made in accordance with their Individualized Education Plan.
- 3. Availability is based on Steel Center's program limits, and it is possible you may not be offered your first choice of program.

#### **College and Career Pathways and Clusters**

According to the National Association of State Directors of Career Technical Education Consortium (2013), "The National Career Clusters™ Framework comprises 16 Career Clusters™ and related Career Pathways to help students explore different career options and better prepare for college and career. The Career Clusters™ and related Career Pathways serve as an organizing tool for schools, small learning communities, academies, and magnet schools to develop more effective programs of study and curriculum." Each of the pathways is aligned to the Elizabeth Forward Senior High School's Program of Studies to provide students an outline to follow when selecting courses and electives that are associated with a potential future career.



### **Course Recommendations**

Career Cluster	Elective Courses	Sample Pathways
riculture, Food & Natural Resources	Accounting 1 & Accounting 2 AP Biology AP Statistics Environmental Science Foods and Nutrition International Foods Introduction to Foods	Agribusiness Systems Animal Systems Environmental Service Systems Food Products & Processing Systems Natural Resources Systems Plant Systems Power, Structural & Technical Systems Architecture & Construction

Career Cluster	Elective Courses	Sample Pathways
Construction	Accounting 1 & Accounting 2 Adv. Engineering & Design Concepts (PLTW) CADD Creative Computer Drawing & Design Construction and the Building Process Digital Electronics and Robotics (PLTW) Drawing Building Design & Modeling (CADD) Engineering and Design Concepts (PLTW) Maker Lab Manufacturing Materials Processing 1 & 2 Principles of Engineering (PLTW) Technology Entrepreneurship (The ISH Co.) Transportation Systems Warrior Bots 10, 11, & 12	Construction Design/Pre-Construction Maintenance/Operations

Career Cluster	Elective Courses	Sample Pathways
Career Cluster  **Total Communications**  **Communications**  **Total Communications**  **Total	3D Modeling Advanced Music Theory & Piano Advanced Painting and Mixed Media Advanced Studio Art 1 Advanced Studio Art 2 Basic Studio Art Beginning Painting Ceramics 1, 2, & 3 Chamber Music Coding 1, 2, & 3 Crafty Shack Creative Writing Digital Photography & Editing Elizabeth Forward Chorus Evolution of Games Exploring Visual Design Film Studies Foreign Language (French/Spanish) Game Design GameMaker Programming 1 & 2 Gaming Internship Honors Independent Ceramics eSports Intro. to Music Theory & Beginning Piano Jazz Ensemble Media Center Internship Multimedia Production Music History Ninth Grade Band Ninth Grade Chorus Partners in Art Partners in Music Percussion Ensemble Pop, Abstract, and Modern Art Print Media Productions Storytelling String Ensemble Symphonic Wind Ensemble T-Shirt TECH-niques Theater Arts Unity 3D Programming Warrior Choir	A/V Technology & Film Journalism & Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts

Career Cluster	Elective Courses	Sample Pathways
Administration	Academic Trigonometry/Pre-Calculus Accounting 1 & Accounting 2 Algebraic Concepts/Trigonometry AP Statistics Computer Keyboarding Economics Foreign Language (French/Spanish) AP Pre-Calculus Investing & Personal Finance Probability and Statistics Technology Entrepreneurship (The ISH Co.)	Administrative Support Business Information Management General Management Human Resources Management Operations Management

Career Cluster	Elective Courses	Sample Pathways
Training	AP Capstone Research AP Capstone Seminar Child Development and Parenting Computer Keyboarding Foreign Language (French/Spanish) Partners in Art Partners in Music Partners Physical Education Psychology Public Speaking Sociology	Administration & Administrative Support Professional Support Services Teaching/Training

Career Cluster	Elective Courses	Sample Pathways
	Accounting 1 & Accounting 2	Accounting
ance of the same o	Economics	Banking Services
ance	Investing & Personal Finance	Business Finance
	Sports Marketing & Entrepreneurship	Insurance
	Warrior School of Law	Securities & Investments

Career Cluster	Elective Courses	Sample Pathways
	Accounting 1 & Accounting 2	Foreign Service
overnment & Public	American Government	Governance
Administration	AP U.S. History	National Security
	AP World History	Planning
	Computer Keyboarding	Public Management &
	Foreign Language (French/Spanish)	Administration
	Investing & Personal Finance	Regulation
	Psychology	Revenue & Taxation
	Sociology	
	Warrior School of Law	

### **Course Recommendations**

Career Cluster	Elective Courses	Sample Pathways
Tealth Science	Academic Trigonometry/Pre-Calculus Algebraic Concepts/Trigonometry AP Biology AP Capstone Research AP Capstone Seminar AP Chemistry AP Physics C AP Statistics Child Development and Parenting Computer Keyboarding Foreign Language (French/Spanish) Health Honors Anatomy & Physiology Honors Biology Honors Chemistry Honors Physics AP Pre-Calculus Lifeguard Training Psychology Sociology Sports Marketing & Entrepreneurship	Biotechnology Research & Development Diagnostic Services Health Informatics Support Services Therapeutic Services

Career Cluster	Elective Courses	Sample Pathways
dspitality & Tourism	Computer Keyboarding Foods and Nutrition Foreign Language (French/Spanish) International Foods Intro to Foods Sports Marketing & Entrepreneurship	Lodging Recreation, Amusements & Attractions Restaurants & Food/Beverage Services Travel & Tourism

Career Cluster	Elective Courses	Sample Pathways
man Services	Accounting 1 & Accounting 2 AP Capstone Research AP Capstone Seminar AP Statistics Child Development and Parenting Foreign Language (French/Spanish) Psychology Sociology	Consumer Services Counseling & Mental Health Services Early Childhood Development & Services Family & Community Services Personal Care Services

Career Cluster	Elective Courses	Sample Pathways
Technology	3D Modeling AP Computer Science A AP Computer Science Principles CHS CS-Web Site Design & Development CHS Web Design 2 Internship Coding 1, 2, & 3 Digital Electronics and Robotics (PLTW) Digital Photography & Editing Evolution of Games Game Design GameMaker Programming 1 & 2 Gaming Internship eSports T-Shirt TECH-niques The ElizaByte Academy Unity 3D Programming Warrior Bots 10, 11, & 12	Information Support & Services Network Systems Programming & Software Development Web & Digital Communications

Career Cluster	Elective Courses	Sample Pathways
	American Government	Correction Services
aw. Public Safety.	Foreign Language (French/Spanish)	Emergency & Fire Management
9 Corrections	Psychology	Services
& Security	Sociology	Law Enforcement Services
	Warrior School of Law	Legal Services
		Security & Protective Services

Career Cluster	Elective Courses	Sample Pathways
	CADD Creative Computer Drawing & Design	Health, Safety & Environmental
O CLEAN LA	Construction and the Building Process	Assurance
anufacturing	Digital Electronics and Robotics (PLTW)	Logistics & Inventory Control
anujacturing	Drawing Building Design & Modeling (CADD)	Maintenance, Installation & Repair
1	Maker Lab	Manufacturing Production Process
	Manufacturing	Dev.
	Materials Processing 1 & 2	Production
	Sports Marketing & Entrepreneurship	Quality Assurance
	Technology Entrepreneurship (The ISH Co.)	
	T-Shirt TECH-niques	
	Transportation Systems	
	Warrior Bots 10, 11, & 12	

Career Cluster	Elective Courses	Sample Pathways
arketing	Academic Trigonometry/Pre-Calculus Accounting 1 & Accounting 2 Algebraic Concepts/Trigonometry AP Statistics CHS CS-Web Site Design & Development CHS Web Design 2 Internship Foreign Language (French/Spanish) AP Pre-Calculus eSports Maker Lab Probability and Statistics Sports Marketing & Entrepreneurship Technology Entrepreneurship (The ISH Co.) Warrior School of Law	Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales

Career Cluster	Elective Courses	Sample Pathways
ience, Technology, Engineering & Mathematics	Academic Trigonometry/Pre-Calculus Adv. Engineering Design Concepts (PLTW) Algebraic Concepts/Trigonometry AP Biology AP Calculus AB AP Calculus BC AP Capstone Research AP Capstone Seminar AP Chemistry AP Physics C AP Statistics CADD Creative Computer Drawing & Design Calculus Digital Electronics and Robotics (PLTW) Drawing Building Design & Modeling (CADD) Evolution of Games Game Design GameMaker Programming 1 & 2 Gaming Internship Graphic Technologies AP Pre-Calculus Introduction to eSports Probability and Statistics Storytelling Unity 3D Programming Warrior Bots 10, 11, & 12	Engineering & Technology Science & Mathematics

### **Course Recommendations**

Career Cluster	Elective Courses	Sample Pathways
	Accounting 1 & Accounting 2	Facility & Mobile Equipment
ransportation,	Maker Lab	Maintenance
Distribution	Technology Entrepreneurship (The ISH Co.)	Health, Safety & Environmental
& Logistics	Warrior School of Law	Management
		Logistics Planning & Management
		Services
		Sales & Service
		Transportation Operations
		Transportation
		Systems/Infrastructure Planning,
		Management & Regulation
		Warehousing & Distribution Center
		Operations

Business, Computer & Information Technology			
COURSE	GRADE	CREDITS	
Computer Science			
Coding 1	9, 10, 11, 12	0.50	
Coding 2	9, 10, 11, 12	0.50	
Coding 3	10, 11, 12	0.50	
CHS Computer Science-Web Site Design & Development	10, 11, 12	0.50	
CHS Web Design 2 Internship	10, 11, 12	0.50	
AP Computer Science Principles	10, 11, 12	1.00	
AP Computer Science A	11,12	1.00	
The ElizaBYTE Academy	9	0.50	
Business			
Building Bridges to My Future	9	0.50	
Computer Keyboarding	9, 10, 11, 12	0.50	
Sports Marketing and Entrepreneurship	9, 10, 11, 12	0.50	
Accounting 1	10, 11, 12	0.50	
Accounting 2	10, 11, 12	0.50	
Investing and Personal Finance	10, 11, 12	0.50	
Warrior School of Law	10, 11, 12	0.50	

<b>English</b>				
COURSE	GRADE	CREDITS		
English 9	9	1.00		
Pre-AP English 9 (Honors)	9	1.00		
English 10	10	1.00		
Pre-AP English 10 (Honors)	10	1.00		
English 11	11	1.00		
Honors English 11	11	1.00		
AP English 11 Language and Composition	11	1.00		
English 12	12	1.00		
Honors English 12	12	1.00		
AP English 12 Literature and Composition	12	1.00		
Creative Writing	9, 10, 11, 12	0.50		
Film Studies	9, 10, 11, 12	0.50		
Irish Literature	10, 11, 12	0.50		
Public Speaking	10, 11, 12	0.50		
Mythology	10, 11, 12	0.50		
Theatre Arts	10, 11, 12	0.50		

Entertainment Technology		
COURSE	GRADE	CREDITS
Evolution of Games	9, 10, 11, 12	0.50
Game Design	9, 10, 11, 12	0.50
GameMaker Programming I	9, 10, 11, 12	0.50
GameMaker Programming II	9, 10, 11, 12	0.50
Gaming Internship	10, 11, 12	0.50
eSports	10,11,12	0.50
Storytelling	10, 11, 12	0.50
Unity 3D Programming	10, 11, 12	0.50
3D Modeling	9, 10, 11, 12	0.50/1.00

Family and Consumer Science			
COURSE GRADE CREDITS			
Intro to Foods	9, 10, 11, 12	0.50	
Foods and Nutrition	9, 10, 11, 12	0.50	
International Foods	10, 11, 12	0.50	
Child Development and Parenting	10, 11, 12	0.50	

Foreign Languages				
COURSE	GRADE	CREDITS		
FLEX (Foreign Language Exploratory)	9, 10, 11, 12	0.50		
French 1	9, 10, 11, 12	1.00		
French 2	10, 11, 12	1.00		
French 3	10, 11, 12	1.00		
Honors French 4	11, 12	1.00		
Honors French 5 Independent Study	12	1.00		
Spanish 1	9, 10, 11, 12	1.00		
Spanish 2	10, 11, 12	1.00		
Spanish 3	10, 11, 12	1.00		
Honors Spanish 4	11, 12	1.00		
Honors Spanish 5 Independent Study	12	1.00		

Health, Physical Education and Aquatics			
COURSE	GRADE	CREDITS	
9th Grade Fitness	9	0.50	
Aquatics	9 , 10, 11, 12	0.50	
Advanced Swim/Lifeguarding	9, 10, 11, 12	0.50	
Competitive Sports	10, 11, 12	0.50	
Group Fitness	10, 11, 12	0.50	
Health	10	0.50	
Lifeguard Training	10, 11, 12	0.50	
Mindfulness and Movement	10, 11, 12	0.50	
Partners in Physical Education	10, 11, 12	0.50	
Personal Fitness and Games	10, 11, 12	0.50	
Weight Training and Conditioning	10, 11, 12	0.50	

Mathematics		
COURSE	GRADE	CREDITS
Traditional Math Classes		
Algebra 1	9	1.00
Algebra 2	10, 11	1.00
Geometry	10, 11	1.00
Algebraic Concepts/Trigonometry	11, 12	1.00
Integrated Math for the Workforce	12	1.00
Academic Math Classes		
Academic Algebra 1	9	1.00
Academic Algebra 2	10, 11	1.00
Academic Geometry	10, 11	1.00
Academic Trigonometry/Pre-Calculus	11, 12	1.00
Probability & Statistics	12	1.00
Calculus	12	1.00
Honors Math Classes		
Honors Algebra 2	9, 10	1.00
Honors Geometry	10, 11	1.00
AP Pre-Calculus	11, 12	1.00
AP Calculus AB	12	1.00
AP Calculus BC	12	1.00
AP Statistics	11, 12	1.00

<u>Music</u>		
COURSE	GRADE	CREDITS
Ninth Grade Chorus	9	1.00
Elizabeth Forward Chorus	10, 11, 12	1.00
Warrior Choir	11, 12	1.00
Music History	10, 11, 12	0.50
Introduction to Music Theory and Beginning Piano	9, 10, 11, 12	0.50
Advanced Music Theory and Piano	9, 10, 11, 12	0.50
Beginning Band	9, 10, 11, 12	1.00
Ninth Grade Band	9	1.00
Symphonic Wind Ensemble	10, 11, 12	1.00
Jazz Ensemble	9, 10, 11, 12	1.00
String Ensemble	9, 10, 11, 12	1.00
Percussion Ensemble	9, 10, 11, 12	1.00
Chamber Music	10, 11, 12	1.00
Partners in Music	9, 10, 11, 12	1.00

Remediation		
COURSE	GRADE	CREDITS
Keystone Algebra I Tutorial	9, 10, 11	0.50
Keystone Biology Tutorial	9, 10, 11	0.50
Keystone Literature Tutorial	11, 12	0.50
Reading Strategies	9, 10, 11, 12	1.00

<u>Science</u>		
COURSE	GRADE	CREDITS
Biology	9	1.00
Honors Biology	9	1.00
Applied Chemistry	10	1.00
Academic Chemistry	10	1.00
Honors Chemistry	10	1.00
Digital Electronics and Robotics (PLTW)	9, 10, 11, 12	1.00
Applied Physics	11	1.00
Academic Physics I	11	1.00
Honors Physics	11	1.00
Academic Physics II	12	1.00
Environmental Science	11, 12	1.00
Honors Anatomy and Physiology	11, 12	1.00
AP Biology	11, 12	1.00
AP Chemistry	11, 12	1.00
AP Physics C	12	1.00

Social Studies		
COURSE	GRADE	CREDITS
Modern Western Civilization	9	1.00
U.S. History	10	1.00
World Cultures	11	1.00
American Government	12	0.50
Economics	12	0.50
Sociology	12	0.50
Psychology	11, 12	0.50
AP U.S. History	10	1.00
AP European History	11, 12	1.00
AP World History	11, 12	1.00

Special/Other Courses		
COURSE	GRADE	CREDITS
AP Capstone Seminar	10, 11, 12	1.00
AP Capstone Research	11, 12	1.00
Drivers' Education Theory	9, 10, 11, 12	0.25
Study Skills	9, 10, 11, 12	0.50 or 1.00
Media Center Internship	10, 11, 12	0.50
Multimedia Production	9, 10, 11, 12	1.00
Print Media Productions	9, 10, 11, 12	1.00
SAT Test Preparation	10, 11, 12	0.50
Senior Work Experience	12	1.00-3.00
Warrior Bots	10, 11, 12	0.50

<u>Technology Education</u>		
COURSE	GRADE	CREDITS
Material Processing I	9, 10, 11, 12	0.50
Material Processing II	9, 10, 11, 12	0.50
Transportation Systems	9, 10, 11, 12	0.50
Manufacturing	10, 11, 12	0.50
Homeowner University	9, 10, 11, 12	0.50
Construction and Building Processes	10, 11, 12	0.50
Maker Lab	9, 10, 11, 12	0.50
Engineering and Design Concepts (PLTW)	9, 10, 11, 12	0.50
Architectural Building Design and Modeling (with CADD)	9, 10, 11, 12	0.50
CADD 1 (Creative Computer Drawing and Design)	9, 10, 11, 12	0.50
CADD 2 (Advanced Computer Aided Drawing and Design)	9, 10, 11, 12	0.50
Advanced Engineering and Design Concepts (PLTW)	9, 10, 11, 12	0.50
T-Shirt TECH-niques	9, 10, 11, 12	0.50
Digital Photography & Editing	9, 10, 11, 12	0.50
(The ISH Company) Technology Entrepreneurship	10, 11, 12	1.00

<u>Visual Arts</u>		
COURSE	GRADE	CREDITS
Exploring Visual Design	9, 10, 11, 12	0.50
Basic Studio Art	10, 11, 12	1.00
Partners in Art	10, 11, 12	1.00
Advanced Studio Art 1	11, 12	1.00
Pop, Abstract, and Modern Art	9, 10, 11, 12	0.50
Advanced Studio Art 2	12	1.00
Beginning Painting	10, 11, 12	0.50
Ceramics 1	9, 10, 11, 12	0.50
Ceramics 2	10, 11, 12	0.50
Ceramics 3	11, 12	0.50 - 1.00
Crafty Shack	10, 11, 12	0.50
Advanced Painting & Mixed Media	10, 11, 12	0.50
Slip Casting Ceramics	10,11,12	0.50

# Course Offerings

Steel Center Area Vocational-Technical School			
COURSE	GRADE	CREDITS	
Advertising & Design	10, 11, 12	3.00	
Automotive Technology	10, 11, 12	3.00	
Baking/Pastry Chef	10, 11, 12	3.00	
Building Trades Maintenance	10, 11, 12	3.00	
Carpentry	10, 11, 12	3.00	
Collision Repair & Refinishing	10, 11, 12	3.00	
Computer Technology	10, 11, 12	3.00	
Cosmetology	10, 11, 12	3.00	
Culinary Arts	10, 11, 12	3.00	
Diesel Technology	10, 11, 12	3.00	
Electrical Construction	10, 11, 12	3.00	
Exercise Science & Rehabilitation Services	10, 11, 12	3.00	
Health Assistants	10, 11, 12	3.00	
Heating, Ventilation, Air Conditioning, & Refrigeration	10, 11, 12	3.00	
Medical Professions	10, 11, 12	3.00	
Public Safety	10, 11, 12	3.00	
Veterinary Assistant	10, 11, 12	3.00	
Welding	10, 11, 12	3.00	

Faculty:

Ryan Brain Jessica Gabrielson Kelly Kearns

#### Philosophy:

Because society and technology are forever changing, the BCIT Department offers a curriculum designed to prepare students for life skills that will be utilized in future academic endeavors as well as provide the foundation of those everyday living skills that will make students successful functioning members of society. Furthermore, we believe that the information technology strand in business programs requires substantial application of core content standards, specifically in English and Math as we prepare students for the many phases of their academic, career, and personal lives. Therefore, this department includes several rigorous computer science electives. Elizabeth Forward supports the K-12 Computer Science Framework which states that students should "develop a foundation of computer science knowledge and learn new approaches to problem-solving that harness the power of computation thinking to become both users and creators of computing technology." The overall goals are to cover computing systems, the Internet, data, algorithms, programming, and the impact of computing and foster strong communication, collaboration, and computational thinking practices.

#### **Suggested Computer Science Course Selections:**

9th Grade Options	Coding 1, Coding 2 GameMaker Programming 1, GameMaker Programming 2
10th Grade Options	Coding 1, Coding 2, Coding 3, GameMaker Programming 1, GameMaker Programming 2, Unity 3D AP Computer Science Principles, CHS Web Design, Gaming Internship
11th Grade Options	Coding 1, Coding 2, Coding 3 GameMaker Programming 1, GameMaker Programming 2 Unity 3D, Gaming Internship
12th Grade Options	AP Computer Science Principles, AP Computer Science A, CHS Web Design, GameMaker Programming 1, GameMaker Programming 2

COURSE TITLE	Coding 1	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Algebra 1 with a final grade of 80% or better. Successful completion of Math 8 with teacher recommendation. One of the required 9th-grade computer science options.	OPEN TO GRADE(S)	9,10,11,12
DESCRIPTION	Would you like to learn how to create apps, games, of for! Being able to code a computer is an essential skill job market today and will help you develop important a that, but coding is fun! Using the Python language, you and interactive games. You will learn the most full-statements, and functions.	II. It is one of the most need nalytical and problem-solving ou will learn how to create gr	ed skills for the skills. Not only aphical images

COURSE TITLE	Coding 2	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Coding 1, Python	OPEN TO GRADE(S)	9, 10, 11, 12
	Programming, or Honors Python Programming		
DESCRIPTION	Want to be able to code games? In Coding 2, you will skills along with putting into practice your knowledge interesting games and apps. Topics that you will con This will allow you to make games like Tic-Tac-Toe, Batto create your own games.	from Coding 1 to make more ver include motion, loops, lis	e advanced and ts, and 2D lists.

COURSE TITLE	Coding 3	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Coding 2	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	After learning all the fundamental coding skills in Co	ding 1 and Coding 2, now y	ou will have the
	option to use all that knowledge to make larger projects and work in new computing environments.		
	You will be able to use your Python skills to create programs on computers called the Raspberry Pi		
	and make electronic physical games. You will be able to learn how to use code to create something		
	that interacts with our physical environment and also have time to create more in-depth games or		
	projects. You may be given many weeks to create a lar	rge video game as your final	project.

COURSE TITLE	CHS CS-Web Site Design & Development	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of ElizaByte, Python Programming, or Coding 1 with a final grade of 80% or better	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This semester course provides motivated and academically prepared students to take college-level coursework and exams while in high school. Students may elect to earn college credit upon successful completion by enrolling in a College-In-High-School (CHS) course offered through the University of Pittsburgh at a reduced tuition rate. Topics include HTML, Website maintenance with Dreamweaver, JavaScript, Website layout and design techniques, and Internet search engine analysis.		

COURSE TITLE	AP Computer Science Principles	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Algebra I with a final	OPEN TO GRADE(S)	10, 11, 12
	grade of 80% or better or successful completion		
	of GameMaker Programming I or Python		
	Programming with a final grade of 80% or better		
DESCRIPTION	AP Computer Science Principles introduces students to the breadth of the field of computer		
	science. In this course, students will learn to design and evaluate solutions and to apply computer		
	science to solve problems through the development of algorithms and programs. They will		
	incorporate abstraction into programs and use data to discover new knowledge. Students will also		
	explain how computing innovations and computing sy	stems, including the Interne	t, work, explore
	their potential impacts, and contribute to a computing of	culture that is collaborative an	d ethical.

COURSE TITLE	AP Computer Science A	CREDIT VALUE	1.00
PREREQUISITE	Successful Completion of Java Programming,	OPEN TO GRADE(S)	11, 12
	Coding 2, or AP Computer Science Principles		
	with a final grade of 75% or better		
DESCRIPTION	This full-year Advanced Placement elective course		
	methodology, problem-solving, data structures, and		
	programming language. Topics include effective programming practices, Java objects, writing		
	classes, sort and search algorithms, and inheritance. This course is recommended for students		
	who are considering majoring in a Computer Science r	elated field upon entering col	lege.

COURSE TITLE	Building Bridges to My Future	CREDIT VALUE	0.50
PREREQUISITE	None	MANDATORY	9
DESCRIPTION	What is your future career goal and how do you plan focus on exploring your academic and future career at the proper decisions for goal attainment. Students we such as communication, teamwork, enthusiasm, inte will be placed on career planning, self-assessments goal-setting. Students will study the five fastest-grow including healthcare, construction & trades, banking & An online career tool will be used to personalize and decision of the second structure.	aspirations while guiding you ill work on developing nece rviewing, and time managers, current job trends, decisioning career clusters in the Pit finance, information technological.	towards making ssary soft skills ment. Emphasis on-making, and ttsburgh region, ogy, and STEM.

COURSE TITLE	The ElizaBYTE Academy	CREDIT VALUE	0.50
PREREQUISITE	None	One of the required	9
		9th-grade computer	
		science options	
DESCRIPTION	Did you know computers do not just run off of magic you can learn to write programs for! In ElizaBYTE Acatools, programming languages involving robots, interactually work, and societal and ethical issues. You we creators using the most recent technological tools. collaborative teams where you can test and create new solve and delve into real-world technology as a team.	demy, you will be introduced face and web design, learn vill not only be consumers of Many of the topics covered	to new software how computers technology, but will be done in

COURSE TITLE	Computer Keyboarding	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Students will be given an in-depth reexamination of the on the alphabetic keys and proper keyboarding tech Students will be encouraged to develop accuracy and wpm). Current software available to enhance keyboarding is strongly recommended for students who has keyboarding skills.	nniques along with a review d speed to the highest degree arding efficiency will also be	of mouse skills. possible (40-45 introduced. This

COURSE TITLE	Sports Marketing and Entrepreneurship	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This is a semester course that combines two importa		•
	Sports Marketing. Most of the course will be focused	•	•
	small business using an abundance of Sports Marke	. ,	•
	of small business for our economy, the value of the	•	• •
	entrepreneurship as a career. The students will choo	se a company that they would	d one day like to
	create and complete a detailed business plan for that	company. The entrepreneursl	nip aspect of the
	course will provide a strong foundation for all aspects of business administration. One of those		
	aspects is marketing. Therefore, a strong emphasis will be placed on the importance of marketing.		
	The students will learn the importance of marketing by presenting key marketing concepts using		
	real examples from the sports and entertainment industry. We will cover the 4 P's of Marketing.		
	Product, Price, Place, and Promotion. Included in	all of that is market research	, demographics,
	promotion, advertising, endorsements, pricing policy,	and public relations.	

COURSE TITLE	Investing and Personal Finance	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Major economic decisions will be made continuous	sly throughout your life. Prep	pare yourself to
	save, invest, and spend for the future. Everyone is		
	Learn about stocks, bonds, mutual funds, investing st	rategies, and "The Rule of 72.	" Everyone has
	the ability to meet his/her financial goals. This clas	s will show you how to invest	for your future.
	Students will participate in the "Internet Stock Market" game. They will be given \$100,000 to invest		
	using real-time stock quotes. Students will compete with classmates and students around the		
	country to see how much they can earn. This course will not just deal with stocks and investing.		
	Other topics covered will be life insurance, credit	cards, banking, mortgages,	real estate, tax
	returns, financing a new automobile, student loans an	d paying for college and retire	ment planning.

COURSE TITLE	Accounting 1	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course provides a basic understanding of the property on developing a better comprehension of business educated a business. Students will be able to complete the action as a proprietorship. They will also be able to complete the action and income taxes. The highly recommended for students planning to marketing, or Accounting.	conomic terms and conditions counting cycle for a service plete a basic tax return as e course provides a strong for	as they apply to business formed they understand oundation and is

COURSE TITLE	Accounting 2	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Accounting 1 with a grade of 70% or better	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course is a continuation of Accounting 1 where increase the student's knowledge of accounting for Accounting 2 expands into accounting procedures for valuing inventory, depreciation, and uncollectible accounting to the contract of the course of the	orms, procedures, and finant for a merchandise business,	cial statements.

COURSE TITLE	Warrior School of Law	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course is an introduction to law and its appl interested in law school, law enforcement, crimino encouraged to take this course. Students will underst legal system, discuss the differences between crimin describe the elements of a contract. In addition, we wand how a trial works.	logy, and business administ tand how ethics and morality al law and civil law, torts and	ration are highly play a role in the I tort reform, and

COURSE TITLE	CHS Web Design 2 Internship	CREDIT VALUE	0.50
PREREQUISITE	80% or better in CHS CS Website Design &	OPEN TO GRADE(S)	10, 11, 12
	Development OR one of the following - 80% or		
	better in Coding 1, The Elizabyte Academy or		
	GameMaker Programming 1		
DESCRIPTION	In this course, students will build on web design concepts learned in CHS Web Design while having		
	the unique opportunity to create a website for a local business. Students will be exposed to		
	intermediate computer science topics such as HTML/CSS, Javascript, PHP, and SQL while		
	learning the dynamics of consulting business. Students may elect to earn college credit upon		
	successful completion by enrolling in a College In High School (CHS) course offered through the		
	University of Pittsburgh at a reduced tuition rate.		

### **English**

Faculty:

Katherine Bonatesta James Coll Kathy Kluegel Justin Plansinis Jennifer Spiegel Tara Wemyss Alana Wieclaw

### Philosophy:

The Philosophy of the English Department is to enhance the reading, writing, speaking, listening, viewing, and research skills of our students by exposing them to a variety of genres and cultures through the study of literature. Students will draw connections between the literature and their world while broadening their vocabulary and honing their analytical and critical thinking skills. Our goal is to foster the next generation of lifelong readers, writers, speakers, and thinkers.

COURSE TITLE	English 9	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	9
DESCRIPTION	The primary focus of this course will be a literature thinking, discussion, and written response. One not short stories and nonfiction texts will also be inclusted themselves, build independent study habits, budget to and/or opinions. When responding in writing to various encouraged to establish a clear focus, exhibit clarity grammar rules, and maintain coherent organization word of study, students will be active participants in resease experiences.	ovel and two dramas are requided. Students are encourage their time wisely, and tolerate cous elements of the literature, and logic in thought developmental writing in various modes.	uired readings. ed to think for conflicting ideas students will be nent, adhere to Across all units

COURSE TITLE	Pre-AP English 9 (Honors)	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Language Arts	OPEN TO GRADE(S)	9
	(grade 8) with a final grade of 90% or better		
DESCRIPTION	This course emphasizes critical reading, research an units of specific genre will be considered for struct where applicable, for contemporary value. Writing it course. Grammar, usage, and mechanics will be composition to incorporate a variety of writing type discussion skills. Students will be expected to analy and written form. Students are encouraged to think for budget their time wisely, and tolerate conflicting idea and various short stories in fiction and nonfiction will be is required.	ture, meaning, theme, charactin various modes will be a macorrelated with the study ones. This class is also designate, formulate, and support ideal or themselves, build independent as and/or opinions. Four nove	eterization, and, ajor part of the fliterature and ned to enhance eas in both oral ent study habits, els, one drama,

COURSE TITLE	English 10	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	10
DESCRIPTION	In this course, students will study World Literature, to writing, and language study. Students will gather an express themselves fluently in both spoken and writing analytical thinking skills through oral and written expression. MLA style will be discussed, presented, and required course. (Practice in mastering writing styles and readingles be incorporated.)	nd analyze ideas, organize the tten forms. Students will deve ression related to the readings of for all writings within the vari	eir thinking, and elop critical and is for the course. ious units of the

COURSE TITLE	Pre-AP English 10 (Honors)	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Pre-AP English 9	OPEN TO GRADE(S)	10
	(Honors) with a final grade of 80% or better, or a		
	final grade of 90% or better in English 9		
DESCRIPTION	This course is designed for the talented and serious challenge of intense and in-depth work in literature reading and intensive work in literary interpretation, a writing styles. Communication skills are enhance presentations. A documented literary research paper required. Students in this course will study an array multi-cultural units of study. (Practice in mastering state-required exams will also be incorporated) A sur	e. This course requires critical nalysis, and composition reflect through group discussions are analyzing an independently of literature, as the course is writing styles and reading ar	Il discriminatory cting a variety of and brief oral y read novel is organized into nalysis skills for

COURSE TITLE	English 11	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11
DESCRIPTION	In this course students will study American Literature skills. The course covers poetry, the short story, the the Puritan Period through the beginnings of Reali Students will be introduced to contemporary literatur and philosophies relevant to society today. A compethemes, which require research for completion.	essay, and novels. The mate sm and Naturalism and the e, which reflects the current a	rial ranges from Modern Period. Ittitudes, mores,

COURSE TITLE	Honors English 11	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Pre-AP English 10 with a final grade of 80% or better or a final grade of 90% or better in English 10	OPEN TO GRADE(S)	11
DESCRIPTION	This college preparatory course is designed for stude reading and writing and requires them to work at an a to the study of American Literature and includes the essays, short stories, and poetry. Students will discus in oral presentations, and incorporate and respond their peers and literary critics. Writing will include research essays, synthesis essays, and writing for the A summer reading assignment is also required.	accelerated pace. It takes a the reading of novels, plays, histor s individual works, react to the to other literary interpretations literature-based exposition, ar	ematic approach ical documents, m in writing and s of works from

COURSE TITLE	AP English 11 Language and Composition	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Pre-AP English 10	OPEN TO GRADE(S)	11
	with a final grade of 90% or better		
DESCRIPTION	This course requires students to work at the collegicomposition course. Organized in thematic units, the written by American writers. Students will hone their they study language through a rhetorical lens. Students skills as they speak and write in multiple modes. required.  This may also be offered as a College-in-H with a local college/university for optional col.  This course provides the proper background for taking year's end, which is highly recommended.	e course will focus on fiction analytical writing and critical rats will utilize their advanced A summer reading assignigh-School (CHS) course lege credit.	and non-fiction reading skills as communication nment is also

COURSE TITLE	English 12	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	12
DESCRIPTION	Students will explore several periods of British Literal Renaissance. By reflecting on the historical events influence on the development of the English langual study of Shakespearean works. Additionally, two writing, listening, and speaking skills will be transformation and interpretation of literature and the discussions, reading comprehension quizzes, unit test and out-of-class themes, and creative writings will be	of the period, students will dage and its literature, including modern novels will be examenhanced with special emprough analytical and reflectives, oral readings and interpress.	iscover history's ng an extensive nined. Reading, phasis on the ve writing. Class etations, in-class

COURSE TITLE	Honors English 12	CREDIT VALUE:	1.00
PREREQUISITE	Successful completion of Honors English 11, or AP English 11 with a final grade of 80 %	OPEN TO GRADE(S)	12
	Successful completion of English 11 with a final		
	grade of 90% or better		
DESCRIPTION			English 12 takes rature and the of the English etry, and drama. In those of their

COURSE TITLE	AP English 12 Literature and Composition	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Honors English 11 with a final grade of 90% or better or AP English 11 with a final grade of 80% or better	OPEN TO GRADE(S)	12
DESCRIPTION	This course requires students to work at the collection course. Critical reading and analysis of literature are characterization, situation, and themes. Individual meaning, value, and significance to contemporary exwere written. Students are involved in correlating supplementary readings. They are encouraged to those of their classmates and of literary critics. This writing, which emphasizes concise and effective use and objectivity. A.P. English attempts to teach stude express themselves about those works. A summer that the summer is a college-in-hwith a local college/university for optional college/university for optional college/ser's end, which is highly recommended.	e stressed with emphasis place works are considered for experience as well as to the time individual works discussed compare their reactions to lite course also requires the study of language, coherent organishs how to read works of literal reading assignment is required.  Igh-School (CHS) course of litege credit.	ed on language, their structure, es in which they d in class with rary works with and practice of ization of ideas, ture and how to red.

## English

### **English Electives**

These English Elective Courses <u>may not</u> be substituted for English Requirements.

COURSE TITLE	Creative Writing	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course will improve not only the student's ability in general. Students will establish their own writer's to in the use of senses, emotions, life experiences, ar toolbox will become the foundation in which to draw The elements of a story, its shape and editing, an original work will be the focus of the course throughout	olbox that will encompass a de nd a variety of literary devices wwhen developing short storie d the overall potential for pu	eep exploration s. This writer's es and poems.

COURSE TITLE	Public Speaking	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course is designed to help students build confide of speeches. Students in this class will be able to recommunication and will develop skills in selecting and delivering speeches to entertain, inform, and persuadiscussed during the persuasive speech unit. To encostudents will provide brief critiques of speeches given course provides an opportunity to expand basic skills	ognize and understand the bas I researching speech topics, or e. Basic propaganda techniquor rurage and strengthen listening by fellow classmates. A final	sic principles of utlining, and les are g skills, unit of the

COURSE TITLE	Mythology	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course offers an exploration of the literature and art of ancient Greek and Roman		ek and Roman
	mythologies, specifically in the common structures of gods, stories, motifs, and themes.		, and themes.
	Discussions may also cover Norse and Egyptian myths, among others. By studying the classic		
	myths of various cultures, students can value the written drama by ancient and famous		
	philosophical minds as well as appreciate man's	attempt to explain the un	iverse and his
	relationship to it. Studies will also investigate how	v classical aspects of world	mythology still
	influence today's society in a variety of media such as	literature, art, and film.	

COURSE TITLE	Theatre Arts	CREDIT VALUE	0.50
PREREQUISITE	Involvement in the Cast, Crew, or Pit Musical	OPEN TO GRADE(S)	10, 11, 12
	Program Recommended		
DESCRIPTION	This course provides students with a look into the art high school's spring musical. Classwork will inclu choreography, vocal and music preparation, and a basic acting techniques and will perform monologue written in class as well as other analytical papers focu	ide set design, painting, pr look into special effects. Pa es and scenes. Musical critiq	op preparation, articipants learn

## English

Film Studies	CREDIT VALUE	0.50
None	OPEN TO GRADE(S)	9, 10, 11, 12
the silent movie era, through the development of soun of famous auteurs, and the factors that led to the cur films serve as the most significant touchstones in t morality, the critical analysis of these ideas will serve come to understand the historical context that influence	g the history of cinema, from to d, the rise of the studio systement blockbuster era. Becaus the understanding of culture, e students well in the real worked each film, the economic face	the beginning of m, the evolution e contemporary character, and ld. Students will actors that drive
	•	ill develop and
	None In this full-semester course, students will be exploring the silent movie era, through the development of soun of famous auteurs, and the factors that led to the cur films serve as the most significant touchstones in the morality, the critical analysis of these ideas will serve come to understand the historical context that influence their production, and the film techniques that affect the through the viewing, studying, discussing, and write	

COURSE TITLE	Irish Literature	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course will primarily focus on the important lite twentieth century from James Joyce to Seamus H influence of the Irish Literary Revival and its effects of Synge, and Sean O'Casey. The students will also exmany other aspects of Irish cultural identity. Assignme on Irish authors, poets, and playwrights. It is recom this course. Much of the reading is college-level manufactured in the state of the seam of th	leaney. Students will examinate on writers such as W.B. Yeats of the influences of Celticents include analytical essays mended that only the avid	ne the historical , John Millington c mythology and and oral reports

### Entertainment Technology Academy

Faculty:

Alexis Dombrowsky

Jessica Gabrielson

Megan Smith

The Elizabeth Forward School District has partnered with the Entertainment Technology Center at Carnegie Mellon University and Carnegie Learning to provide a program that teaches cutting-edge game-creation technology to high school students. The program combines Science, Technology, Engineering, and Math (STEM) with the Arts to give students the skills and creativity they will need to thrive in the new global digital workplace. All students start with the *Evolution of Games* prerequisite course and then students can pick one or more tracks to continue in the program. The tracks include the following: programming, storytelling, and digital art tracks.

#### **Philosophy:**

The Entertainment Technology Academy's overall goal is to foster leadership in education and research that combines technology and fine arts to create new processes, tools, and vision for storytelling and entertainment.

COURSE TITLE	Evolution of Games	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Today's professional game designers apply dynamics used in games throughout the ages. This course is a study in the history of games and game design. Students analyze how games reflect the social, political, economic, and religious framework of ancient and modern cultures, and determine how game designers make use of available technology and resources. Students prototype and play games from ancient times to today's digital games, as well as modify and create games of their own.		ent and nology

COURSE TITLE	Game Design	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Evolution of	OPEN TO GRADE(S)	9, 10, 11, 12
	Games with a final grade of 70% or better		
DESCRIPTION	"Games with a final grade of 70% or better  "Gaming" doesn't only mean "video games". Gamers also play board games, card games, simulations, and participate in interactive stories. This course breaks down the design process step by step. Students learn the fundamentals of game mechanics, game art, and game narratives. Projects include building, playtesting, and continually improving games that can be played with friends and added to their game portfolio.		design process art, and game

COURSE TITLE	GameMaker Programming I	CREDIT VALUE	0.50
PREREQUISITE	Evolution of Games or teacher	One of the required	9, 10, 11, 12
	recommendation to take as a 9th-grade	9th-grade computer	
	computer science elective	science options	
DESCRIPTION	Learn to code by building and playing 2D games	s. GameMaker Studio, the 2D e	engine you'll be
	using, is based on a scripting language that builds techniques that can be transferred to other		
	coding languages such as Python and Java. You will have the opportunity to express your		
	creativity, art, design, problem-solving, and computational thinking skills to create games that		
	can be played with friends and added to your digi	tal portfolio.	

# Entertainment Technology Academy

COURSE TITLE	GameMaker Programming II	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of GameMaker	OPEN TO GRADE(S)	9, 10, 11, 12
	Programming I with a 70% or better		
DESCRIPTION	This course is a continuation of GameMaker™ Programming I. You will explore complex 2D programming concepts such as animated sprites, user interfaces and feedback, and views. Learn how to build increased difficulty into games and explore advanced data structures including maps and dictionaries. You will finish complete stand-alone executable games that can be played with friends and added to your digital portfolio.		ck, and views. data structures

COURSE TITLE	Gaming Internship	CREDIT VALUE	0.50 or 1.00
PREREQUISITE	Teacher recommendation, successful completion of two full semesters of gaming courses beyond Evolution of Games and application to indicate experience with game design, programming, digital art, and storytelling.	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Students will have the opportunity to create a product that contributes to their school or community. Students will work interdependently on teams grouped according to individuals' skills with digital and/or non-digital game design, digital and non-digital art, and storytelling. Students will have the opportunity to work with a real-world client when available to create products. Projects will be determined and agreed upon by the client and/or the teacher and the student team.		

COURSE TITLE	Storytelling	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Evolution of	OPEN TO GRADE(S)	10, 11, 12
	Games with a final grade of 70% or better		
DESCRIPTION	Storytelling is the process by which diverse imaginings with others. Digital storytelling is storytelling using digital images and sound. This create dramatic stories for modern media includi develop skills in creative writing, awareness, procreative self-confidence as you craft your own or	the modern extension of the course will help you understan ng movies, games, television, a ovisional acting, collaborative s	ancient art of d, critique, and nd more. You'll

COURSE TITLE	Unity 3D Programming	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of GameMaker Programming II with a 70% or better or successful completion of Gamemaker Programming I with a 90% or better	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Are you ready to take your programming skills dynamic Unity 3D games using the same professionals. You will learn the Unity interfarexecutable games that can be played on many played on	industry standard developme ce and JavaScript and will cr	ent engine as reate two fully

# Entertainment Technology Academy

COURSE TITLE	3D Modeling	CREDIT VALUE	0.50 or 1.00
PREREQUISITE	Successful completion of Evolution of Games with a final grade of 70% or better	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Learn the 3D modeling techniques used in mo- commercials, and animation! Using 3Ds Max, you manipulate and sculpt pure imagination into sub- will have developed a portfolio of original projet internship, higher education, or job. Students will ideas come to life.	u will work in this highly skill-bastantial forms. By the end of acts that you can use when a	ased art form to the course, you applying for an

COURSE TITLE	Esports	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10,11,12
DESCRIPTION	Esports, or organized and competitive gamin will immerse students in the Esports industry video games, 2) researching how competitive games, 2) researching how competitive games, 3) learning about the streating content to contribute to the video games, our Esports class can help build a stand communication skills, and foster good pipeline for future STEM careers and fur problem-solving abilities.	by 1) playing, strategizing, etitions are organized and port and the history of gaster community. Whatever typense of belonging, promoted sportsmanship, while also	and analyzing d run at the aming, and 4) ype of "gamer" e collaboration so creating a

### Family & Consumer Science

### Faculty:

Christopher Weibl

### Philosophy:

The Family and Consumer Science Department is dedicated to providing students with the necessary skills and competencies to become well-rounded and self-sufficient adults.

COURSE TITLE	Intro to Foods	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Intro to Foods is a basic introduction to preparing breads, and eggs. The course focuses on cooking te found within the kitchen. Students will participate strengthen their understanding of the current topics of	erminology and unit measurem in a lab approximately ever	ents commonly

COURSE TITLE	Foods and Nutrition	CREDIT VALUE	0.50
PREREQUISITE	Successful Completion of Intro to Foods	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course emphasizes the nutritional aspect of foo food choices in school, the grocery store and resapproximately every 2 weeks to strengthen their un class. The students of this course will also participat first semester or a Barbeque if taken second semeste	staurants. Students will partion derstanding of the current top e in a Thanksgiving Day Cele	cipate in a lab

COURSE TITLE	International Foods	CREDIT VALUE	0.50
PREREQUISITE	Successful Completion of Foods and Nutrition	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	International foods will study foods and dining traditions of various countries around the world such		
	as Italy, Asia, Mexico, and others. Students will participate in a lab approximately every 2 weeks to		
	strengthen their understanding of the current topics covered in class.		

COURSE TITLE	Child Development and Parenting	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course focuses on the study of children from encompasses the physical, emotional, social, and me Childcare emphasizes the need for teenagers to be should even occur. Discussions include conception pregnancy, nutritional needs of mother and child, che standards, safety concerns, and abuse and negle interested in careers that involve working with chiprospective parents.	nental growth during that import responsible mature adults be not the mother's health and would birth, and children's issues ect. This course is importate	ortant first year. efore parenting ell-being during such as health ant to students

### Foreign Languages

Faculty:

Shawna Boden Alexis Dombrowsky Christina Mediate

Amy Thurston

#### Philosophy:

The Foreign Language Department's overall goal is to provide students with a foundation of the target language and culture while developing a general insight into how languages work. This is done in a way as to allow and encourage further studies here or abroad. Our classes are carefully aimed to give students four (4) abilities:

- 1. To function in a target language-speaking country
- 2. To use the language for a lifetime of personal enjoyment
- 3. To recognize the role that French and Spanish-speaking countries play in the world
- 4. To further increase the knowledge and skills of the language for general world communication and the workplace

COURSE TITLE	FLEX (Foreign Language Exploratory)	CREDIT VALUE	0.50
RECOMMENDATION	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Students will have the opportunity to explore the cul- of the French and Spanish speaking worlds. Topi alphabet, greetings, numbers, months, days, colors, agreement, as well as culturally applicable material.	cs may include but are not	limited to, the

COURSE TITLE	French 1	CREDIT VALUE	1.00
RECOMMENDATION	Students shall have a strong foundation in the	OPEN TO GRADE(S)	9, 10, 11, 12
	English Language		
DESCRIPTION	Welcome to the exciting world of French 1. French 1 students will focus on aural and oral		
	development, with an equal emphasis on writing skills. Students will begin speaking French on the		
	first day of school, learning how to respond to basic questions. During the year, they will converse		
	using appropriate vocabulary and grammar to express greetings, introductions, farewells, and		
	activities involving family and friends, food, shopping,	traveling, and sports.	

COURSE TITLE	French 2	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of French 1 with a final	OPEN TO GRADE(S)	10, 11, 12
	grade of 70% or better		
DESCRIPTION	Students will continue to improve upon the skills lead speaking, reading, and writing. They will continue weather, clothing, health, sports, culture, banking, vocabulary and grammar skills, their fluency a expectation of speaking in full complete sentences.	to acquire new vocabulary in and travel. As they continue	the areas of to learn new

## Foreign Languages

COURSE TITLE	French 3	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of French 2 with a final	OPEN TO GRADE(S)	10, 11, 12
	grade of 70% or better		
DESCRIPTION	At this level, students will actually begin to "speak" a will continue to advance, and students will understa to communicate more readily. Reading and writing s in skits, plays, songs, short stories, etc. Students speeches and dialogues in the target language. To conjugation in French 3.	nd the patterns of the language kills will also improve by incorp will be expected to create and	e allowing them porating French d present short

COURSE TITLE	Honors French 4	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of French 3 with a final grade of 80% or better	OPEN TO GRADE(S)	11, 12
DESCRIPTION	grade of 80% or better  At this level, French is treated as a "core subject" in which the fields of English, art, music, literature, history, geography, and technology are correlated. Students will continue to improve their listening, speaking, reading, and writing skills, and classroom discussion is primarily in French. This level also stresses self-expression and creativity in French. The students will begin a comprehensive writing program.		nue to improve is primarily in

COURSE TITLE	Honors French 5 Independent Study	CREDIT VALUE	1.00
PREREQUISITE	<ul><li>(1) Students must have completed Honors French 4 with an 80% or better.</li><li>(2) G.P.A. of 3.5 in the discipline for levels 1-4 and G.P.A. of 3.0 overall</li></ul>	OPEN TO GRADE(S)	12
DESCRIPTION	This course is recommended for individual students who are in unique situations, where they have met the requirements to be in a level 5 language course. Students must have a genuine interest in language learning and be self-driven, independent learners. Student(s) may be integrated into a lower-level course where they will work independently with guidance from the classroom teacher on advanced grammatical and/or cultural topics. This course will be centered around project-based learning with online components. The curriculum will be tailored to individual interests.		

COURSE TITLE	Spanish 1	CREDIT VALUE	1.00
RECOMMENDATION	Students should have a strong foundation in	OPEN TO GRADE(S)	9, 10, 11, 12
	English Grammar		
DESCRIPTION	Spanish 1 is an introduction to the language and cuare expected to speak and write in Spanish from the familiar with greetings, introductions, exchanging petime activities, describing family as well as other introductions, exchanging petime activities, describing family as well as other introductions, exchanging petime activities, describing family as well as other introductions, exchanging petime activities, describing family as well as well as well as signments that must participation is an integral part of language learning foreign language plan to attend college.	e first day of class. Spanish I stursonal information, discussing stroductory vocabulary. Cultural cegin to develop speaking, writin students should expect daily be completed outside of the class.	udents become school and free connections are g, reading, and practice of the assroom. Class

## Foreign Languages

COURSE TITLE	Spanish 2	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Spanish 1 with a final	OPEN TO GRADE(S)	10, 11, 12
	grade of 70% or better		
DESCRIPTION	Spanish 2 continues to focus on speaking, writing comprehension increase as students continue utilized learned in Spanish 1. Spanish 2 students become language, such as talking about shopping, ordering in household chores and describing a home, planning Cultural connections are made throughout the coupractice of the language, as well as weekly assigning classroom. Class participation is an integral part students who take a foreign language plan to attend of	zing vocabulary and grammat familiar with the real-world con a restaurant, getting around to a party, and talking about sporse. Spanish 2 students shound that must be completed of language learning and is a	ical knowledge inections to the own, completing orts and health. Ild expect daily outside of the

COURSE TITLE	Spanish 3	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Spanish 2 with a final grade of 70% or better	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Spanish 3 refines speaking, writing, reading, and increase as students continue utilizing vocabulary Students ask and answer questions using multiple about travel, vacation, sports and health, daily rou connections are made throughout the course. Spanithe language, as well as weekly assignments that rolless participation is an integral part of language lear a foreign language plan to attend college.	and grammar learned in Spa verb tenses and use them to tines, shopping, and to tell s ish 3 students should expect of must be completed outside of	anish 1 and 2. communicate stories. Cultural daily practice of the classroom.

COURSE TITLE	Honors Spanish 4	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Spanish 3 with a final	OPEN TO GRADE(S)	11, 12
	grade of 80% or better		
DESCRIPTION	Spanish 4 uses speaking, reading and writing, and list grammar structures and discussion topics. Students a and respond to questions about themselves and other food in a restaurant, make movies, write invitations, w family and relationships. Cultural connections are mais an integral part of language learning and is required will take a college-level foreign language course.  This may also be offered as a College-in-High with a local college/university for optional college/u	are able to use several tenses rs. Students will talk about food rite an article for a newspaper de throughout the course. Class. Spanish 4 is of great value to a school (CHS) course in a	as they ask d/recipes, order and talk about ss participation o students who

COURSE TITLE:	Honors Spanish 5 Independent Study	CREDIT VALUE:	1.00
PREREQUISITE:	<ul><li>(1) Students must have completed Honors Spanish 4 with a final grade of 80% or better.</li><li>(2) G.P.A. of 3.5 in the discipline for levels 1-4 and G.P.A. of 3.0 overall</li></ul>	OPEN TO GRADE(S)	12
DESCRIPTION:	This course is recommended for individual students in unique situations, where they have met the requirements to be in a Level V language course. Student(s) must have a genuine interest in language learning and be self-driven, independent learners. Student(s) may be integrated into a lower-level course, where they will work independently with guidance from the classroom teacher on advanced grammatical and/or cultural topics. This course will be centered around project-based learning with online components. Curriculum will be tailored to individual interests.		

### Health / Physical Education / Aquatics

#### Faculty:

David Byers Matthew Flaus Kaila Miele

#### **Philosophy:**

The mission of the Elizabeth Forward Senior High School Health and Physical Education Department is to promote healthy living. When individuals are in good health, they have the energy to enjoy life and pursue their dreams. Students will be taught the benefits of making healthy choices and practicing healthful behaviors. Our focus will be to promote wellness, increase knowledge, and encourage the practice of a healthy lifestyle.

COURSE TITLE	9th Grade Fitness	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9
DESCRIPTION	This course is required of all ninth-grade students fitness activities to help them develop and maintain he emphasizes individual and group skill development, to understanding of the need for lifetime fitness. Student swimming and safety techniques.  *In addition to this course, students will be required to Physical Education Elective to fulfill graduation required.	ealthy lifelong fitness habits. Co eam play, leisure sports particip its will also participate in a unit to take Health in grade 10, and A	oursework pation, and an to learn basic

COURSE TITLE	Health	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10
DESCRIPTION	This course is required of all tenth-grade students human health and development: physical, emotional, three areas are examined through the study of such t abuse, mental health, and related areas. The course systems of the body, first aid, and safety.	and social. The interrelationshopics as nutrition, physical fitne	nips of these ess, AIDS, drug

COURSE TITLE	Aquatics	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This basic swim course exposes students with limited make them reasonably safe in and around water. Studenthrough a series of skills designated by the Red Cross backstroke, diving, and water safety. Lap swimming an individual needs and with the instructor's guidance.	dents enrolled in this PE elections. Skills include: freestyle, elem	ve will move mentary

COURSE TITLE	Personal Fitness and Games	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	The purpose of this course is to motivate students emphasis on improving health-related and skill-redesigned for less competitive students that still enjoyers on a fitness units will include: fitness program designed (HITT) High-Intensity Interval Training. Students in thi within a small or large team during a game or sport sometime various lifetime sports such as: volleyball, basketball softball, team building, and many other ultimate-ty exposed to fitness assessment technology such as it post-fitness testing will be administered in this class.	elated fitness components.  oy high-energy games and fit sign, circuit training, core work s class will also need to be ab etting. Students in this class w ll, badminton, pickleball, flag f pe fitness games. All studen	This course is tness activities. outs, yoga, and le to participate will participate in football, soccer, ats will also be

# Health / Physical Education / Aquatics

COURSE TITLE	Advanced Swim/Lifeguarding	CREDIT VALUE	0.50
PREREQUISITE	Students must meet one of the following AND THE AGE requirement: -must be 15 years old by completion of course -successful completion of Aquatics course -be a member of the swim team -complete a basic skills test with instructor approval	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course provides individuals with the knowledge emergency. Course components include: CPR, an Students who pass course requirements will have to Cross-certified lifeguard. Participants will pay a fee of and to process certification.  Students will also be provided individual instruction of various advanced skills and techniques. Lap swimm component in the course to prepare students for the certification.	d basic First Aid and Rescu he opportunity to become an f \$50 for materials provided by on the four competitive swimmi ming will be included as part	American Red the Red Cross ng strokes and of the fitness

COURSE TITLE	Group Fitness	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course encompasses many forms of fitness that endurance, strength, and flexibility. It caters to a wind fitness and ability levels while promoting life-long at Hip Hop Dance, Zumba, Pound, Line Dancing, You Kickboxing, Step Aerobics, Walking and more.	de range of interests and is a ctivity. Activities include but are	accepting of all e not limited to

COURSE TITLE	Partners Physical Education	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	The aim of Partners Physical Education is to provide program of developmental activities, games, spo capacities, and limitations of students with disabilities in unrestricted participation in the vigorous activities or	rts, and rhythms suited to s who may not safely or succe	the interests, ssfully engage

COURSE TITLE	Competitive Sports	CREDIT VALUE	0.50
PREREQUISITE	None, but any student who participates in an EFHS-sponsored sport or club would enhance each student's performance in the class, Designed for junior varsity and varsity athletes.	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This class is designed to prepare students for interscholastic sports and other highly competitive sporting events. The following areas will be covered: health-related fitness testing, skill-related fitness testing, dynamic and static stretching programs, individual and team sports, and games. Competitions and tournaments will be set up for each game or sport.		

COURSE TITLE	Mindfulness and Movement	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course will help guide students through various daily stress and anxiety. The techniques that are relaxation will help to cultivate a stronger mental focumection that allows balance in life, and assist decision-making skills.	learned through movement, us, create more awareness of	breathing, and the mind/body

## Health / Physical Education / Aquatics

COURSE TITLE	Weight Training and Conditioning	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11,12
DESCRIPTION	Beginner, Intermediate, and Advanced strength and fitness training programs will be offered to		
	students, based on the student experience. This ca	ourse is designed for any stu	udent-athlete or
	non-student athlete who wants to learn proper weight	training exercises and technic	ques for moving
	their body more efficiently and explosively. Workouts	will include, but are not limited	d to: a multitude
	of lifts, exercises, and instruction that focuses on	improving: aerobic and ana	aerobic fitness,
	strength, speed, power, flexibility, and mobility. Students will also learn proper nutrition guidelines		
	to maintain a healthy weight and how to eat and hydrate properly before, during, and after training.		
	This class will encompass small to large-group training which will focus on the four Strength		
	training protocols outlined by the National Strength and Conditioning Association: Specificity,		
	Overload, Progression, and Variation. All students will be responsible for recording daily workout		
	data using an online training system or workout chart	provided by the teacher. All st	udents will also
	be exposed to fitness assessment technology such	as heart rate monitors and pe	edometers. Pre
	and post-fitness testing will be administered in class.		

#### **Mathematics**

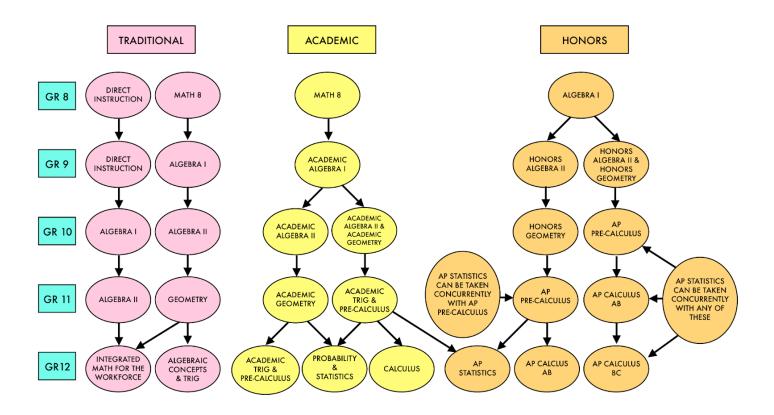
#### Faculty:

Sean Browne Lawrence Feick Justin Korona
Sara Cope Christy Galilei Kameron Smith
Janet Dykstra Diane Hough

#### Philosophy:

The Mathematics Department implements a rigorous college and career prep curriculum for all students. This will require all students to complete four (4) years of math. The instruction at the high school incorporates multiple representations in various forms including concrete/pictorial, verbal/written, numerical/tabular, graphical and symbolic/algebraic expressions. \*Multiple measures of student achievement may be considered to assist the staff with placing students into the appropriate course.

### MATH FLOW CHART



COURSE TITLE	Algebra 1	CREDIT VALUE	1.00
PREREQUISITE	Completion of Math 8 with a final grade of 79%	OPEN TO GRADE(S)	9
	or lower		
DESCRIPTION	This traditional course in Algebra 1 will cover patter graphing. The students will add, subtract, multiple expressions. Equations will be solved, and proportion Students will graph equations and inequalities and standard Problem-solving applications and critical-thinking skill students will focus on Keystone preparation tasks open-ended questions	ly, and divide real numbers, ions, percent, and probability udy laws of exponents and scills will be developed. Along w	variables, and will be studied. entific notation. ith the content,

COURSE TITLE	Academic Algebra 1	CREDIT VALUE	1.00
PREREQUISITE	Completion of Math 8 with a final grade of 80%	OPEN TO GRADE(S)	9
	or higher		
DESCRIPTION	This course is designed for students who wish to continuous through Academic Trigonometry/Pre-Calculus. This patterns, variables, expressions, equations, and graph and divide real numbers, variables, and expressions analyze both equations and inequalities. Problem-solve be developed. This course will focus on the Keystone Algebra Keystone exam at the end of the school year.	s traditional course in Algebrahing. The students will add, su . The students will learn to so ving applications and critical-the Algebra Standards and studen	a 1 will cover btract, multiply, lve, graph, and inking skills will

COURSE TITLE	Algebra 2	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of high school Algebra I	OPEN TO GRADE(S)	10, 11
DESCRIPTION	This is a traditional course and will reinforce and extensive work in factoring, solving linear equations, square roots, cube roots, and fourth roots; introduction equations; graphs of lines and their equations; the fur of equations and inequalities will be covered.	fractions, and real numbers. on and development of solution	The concepts of ons of quadratic

COURSE TITLE	Academic Algebra 2	CREDIT VALUE	1.00
PREREQUISITE	Successful Completion of Academic Algebra 1 (high school) with a final grade of 70% or higher OR Algebra 1 (high school) with a final grade of 90% or higher AND teacher recommendation.	OPEN TO GRADE(S)	10
DESCRIPTION	This course is designed for the student who wishes to continue the study of high school mathematics through Academic Trigonometry/Pre-Calculus. The topics include analyzing, solving and graphing linear equations, inequalities, functions, and systems of equations and inequalities. Other topics covered are polynomials functions and factoring, complex numbers, solving higher degree polynomials, rational functions, radical functions and exponential functions.		

COURSE TITLE	Honors Algebra 2	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Algebra I (grade 8) with a final grade of 60% or better OR Academic Algebra I (HS) with a final grade of 90% or better.	OPEN TO GRADE(S)	9, 10
DESCRIPTION	This course is offered to the student who wants to continue in the study of advanced mathematics. Topics covered are Polynomial Functions and Factoring, Complex Numbers, Solving Higher Degree Polynomials, Rational Functions, Radical Functions, and Exponential Functions and Data Analysis.  Note: A TI-84+ graphing calculator is highly recommended.		

COURSE TITLE	Geometry	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Algebra 2	OPEN TO GRADE(S)	10, 11
DESCRIPTION	This course has a balance of theory and application. definitions of geometric concepts. Topics covered a and proofs, perpendicular and parallel lines, congru quadrilaterals, similarity, right triangles and trigono figures, and surface area and volume.	are essentials of geometry, and ent triangles, special properties	gles, reasoning es of triangles,

COURSE TITLE	Academic Geometry	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Algebra 2 with a final grade of 75% or better or Teacher recommendation	OPEN TO GRADE(S)	10, 11
DESCRIPTION	This course is designed for the student who wishes to continue the study of high school mathematics through Academic Trigonometry/Pre-Calculus. Topics covered are essentials of geometry, angles, reasoning and proofs, perpendicular and parallel lines, congruent triangles, special properties of triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, area of polygons and circles, perimeter and area of plane figures, and surface area and volume.		

COURSE TITLE	Honors Geometry	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Honors Algebra 2 with a final grade of 80% or better, or successful completion of Academic Algebra 2 with a final grade of 90% or better.	OPEN TO GRADE(S)	10, 11
DESCRIPTION	This course is offered to the student who wants to confide Postulates, theorems, definitions, and proofs are a language and logic of geometry, parallelism and quipolygons, inequalities in triangles, right triangles, circulations of solids and coordinate geometry.  Note: A TI-84+ graphing calculator is highly recommentations.	vital part of this course which uadrilaterals, congruent triangle cles, area of polygons and circle	h includes the es and similar

COURSE TITLE	Algebraic Concepts and Trigonometry	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Geometry	OPEN TO GRADE(S)	11, 12
DESCRIPTION	This is a traditional course in algebra and trigonom circular functions and the mechanics of working wi mathematics.	, , , , , , , , , , , , , , , , , , , ,	•

COURSE TITLE	Academic Trigonometry/ Pre-Calculus	CREDIT VALUE:	1.00
PREREQUISITE	Successful completion of Academic Geometry with a final grade of 75% or better or Teacher recommendation	OPEN TO GRADE(S)	11, 12
DESCRIPTION	This course covers advanced concepts of algebra such functions, quadratic equations and inequalities. Trig solved using the Laws of Sines and Cosines. Trig studied and graphed. Students will learn and applexponential and logarithmic equations will be solved.	onometry is then explained an gonometric functions and the	d triangles are ir inverses are

COURSE TITLE	AP Pre-Calculus	CREDIT VALUE:	1.00
PREREQUISITE	Successful completion of Honors Geometry with a final grade of 80% or better or successful	OPEN TO GRADE(S)	11, 12
	completion of Academic Geometry with a final grade of 90% or better		
DESCRIPTION	This course is for college-bound students who plan of be 3 main units of study: Polynomials and Ration Functions, and Trigonometric and Polar Functions. College Board Publication of the Advanced Placement AP Precalculus Advanced Placement exam in May. recommended.  This may also be offered as a College-in-High-Sclegoluniversity for optional college credit.  This course provides the proper background for tak year's end, which is highly recommended.	nal Functions, Exponential an This course follows the strict guent Course Description for prep Note: a TI-84+ graphing calcunate (CHS) course in affiliation	d Logarithmic uidelines in the paration of the ulator is highly

COURSE TITLE	Probability and Statistics	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Geometry	OPEN TO GRADE(S)	12
	or Academic Trig/Pre-Calculus.		
DESCRIPTION	In this course, students will draw conclusions from demonstrate statistical hypothesis testing, and work may not be taken after successful completion of or co	with raw data to summarize da	

COURSE TITLE	Integrated Math for the Workforce	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Algebra I, Algebra II,	OPEN TO GRADE(S)	12
	Geometry AND Teacher Recommendation		
DESCRIPTION	In this course, students will explore algebraic thinking application-based learning approach incorporating Alg Also, this course encourages students to be actively in their everyday lives.  Teacher recommendation is required.	gebra I, Algebra II, and Geomet	ry topics.

COURSE TITLE	AP Statistics	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Honors Geometry with 90% or better with concurrent enrollment in Honors Trigonometry/Pre Calculus or Successful completion of Academic Trigonometry/Pre-Calculus with 85% or better or successful completion of Honors Trigonometry/Pre-Calculus with 80% or better	OPEN TO GRADE(S)	11, 12
DESCRIPTION	Students in AP Statistics are exposed to four broobserving patterns and departures from patterns, pla measure, anticipating patterns and producing mod statistical inferences and confirming models. Stude ranging amongst these four conceptual themes. Th College Board Publication of the Advanced Placeme AP Statistics Advanced Placement examination.  Note: A TI-84+ graphing calculator is highly recomme.  This may also be offered as a College-in-High-Sch college/university for optional college credit.  This course provides the proper background for tak year's end, which is highly recommended.	anning a study and deciding whels using probability theory a ents will be instructed in a value course follows the strict guent Course Description for prepaded.  Inded.  Inded (CHS) course in affiliation	hat and how to and simulation, briety of topics idelines in the paration of the

COURSE TITLE	Calculus	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Trigonometry/Pre-Calculus with a final grade of 80% or better, or Honors Trigonometry/Pre-Calculus with a final grade of 70% or better	OPEN TO GRADE(S)	12
DESCRIPTION	Plane analytic geometry and solid analytic geometry with differential and integral calculus. In addition calculus, the mean value theorem, the fundamental tand ordinary and uniform continuity are emphasized calculus are also studied.	to the mechanics of differential theorems of differential and int	al and integral egral calculus,

COURSE TITLE	AP Calculus AB	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Honors Trigonometry/Pre-Calculus with a final grade of 80% or better or Academic Trigonometry/Pre-Calculus with a final grade of 90% or better	OPEN TO GRADE(S)	12
DESCRIPTION	An Analytical Geometry and Calculus course has I university and can qualify a student for college credit to Plane analytic geometry and solid analytic geometry with differential and integral calculus. In addition calculus, the mean value theorem, the fundamental to and ordinary and uniform continuity are emphasized calculus are also studied. This course follows the strict of the Advanced Placement Course Description for pulacement examination. Note: A TI-84+ graphing calculus may also be offered as a College-in-High-Sch college/university for optional college credit.  This course provides the proper background for taking year's end, which is highly recommended.	through the College-in-High-Sc y are studied intensively and the to the mechanics of differential theorems of differential and intended. Limit theory and application of guidelines in the College Boareparation of the AP Calculus culator is highly recommended.	chool Program.  then integrated al and integral egral calculus, n of differential ard Publication AB Advanced  the model of the color o

COURSE TITLE	AP Calculus BC	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of AP Calculus AB and	OPEN TO GRADE(S)	12
	teacher recommendation.		
DESCRIPTION	AP Calculus BC is the second course in single-vari-	able calculus that would be e	quivalent to a
	second-semester calculus course at most colleges and universities. This course will provide a		
	deeper understanding of the concepts of limits, continuity, derivatives, and integrals, which were		
	covered in AP Calculus AB. The major new topics		·
	polar and vector functions; slope fields, Euler's m		
	Logistic differential equations; Polynomial approximations and series; and Taylor Series. Each of		
	these topics is approached via the "Rule of Four", with activities that emphasize expressing		
	mathematics from graphical, numerical, analytical, and verbal representations. This course follows the strict guidelines in the College Board Publication of the Advanced Placement Course		
	Description for preparation of the AP Calculus BC Advanced Placement examination.		
	Note: A TI-84+ graphing calculator is highly recommended.		
	110to. 71 11 04 · graphing database to highly recommended.		
	This may also be offered as a College-in-High-School (CHS) course in affiliation with a local		
	college/university for optional college credit.		
	This course provides the proper background for taki	ng the Advanced Placement E	examination at
	year's end, which is highly recommended.		

#### Music

Faculty:

Angela Milliren

Steven Spang

#### Philosophy:

"Bringing Academics to Life through Creative Performance"

The goal of the Music Department is to foster creativity in the student body while maintaining focus on four (4) areas of music education set forth by the Department of Education.

- 1. Music literacy blends dynamic and tempo terminology in foreign languages with the mathematical ability to read a musical chart.
- 2. The second area understands the foundations of the composition and the history behind it.
- 3. The third aspect of music is the ability to critique one's own work as well as the work of other performers.
- 4. The last area is to ensure the students can identify the powerful psychological impact of music.

COURSE TITLE	Ninth Grade Chorus	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	9
DESCRIPTION	Ninth Grade Chorus provides an opportunity for entering freshmen to learn proper pedagogy and		
	music theory through singing. Concerts occur throughout the year and attendance is mandatory.		
	Vocal evaluations will occur periodically throughout ea	ach nine-week period.	

COURSE TITLE	Elizabeth Forward Chorus	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Ninth Grade Chorus	OPEN TO GRADE(S)	10, 11, 12
	with an 80% or better or teacher approval		
DESCRIPTION	E.F. Chorus allows students to continue the pedagogical and theoretical studies of Ninth Grade		
	Chorus. Concerts occur throughout the year and attendance is mandatory. Vocal evaluations will		
	occur periodically throughout each nine-week period.		

COURSE TITLE	Warrior Choir	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Elizabeth Forward	OPEN TO GRADE(S)	11, 12
	Chorus with a 90% or teacher approval		
DESCRIPTION	Warrior Choir is designed for advanced choral stude production and mastery of choral techniques will be classroom and on the concert stage. Vocal evaluation nine-week period. Concerts occur throughout the year	emphasized through individua ations will occur periodically t	I learning in the hroughout each

COURSE TITLE	Music History	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course will discuss music history from the beginning of written music through the 20 <sup>th</sup> century.		
	Included in this course are topics such as The Middle Ages, The Jazz Era, the History of Rock n'		
	Roll, Broadway, and composers such as Beethoven and Mozart.		

COURSE TITLE	Introduction to Music Theory and Beginning	CREDIT VALUE	0.50
	Piano		
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Students will learn basic music theory and keyboarding basics beginning with the basic elements		
	of pitch, rhythm, and written notation. Students with no prior experience in ensembles or private		
	lessons should begin this course before enrolling in Advanced Music Theory and Piano.		

COURSE TITLE	Advanced Music Theory and Piano	CREDIT VALUE	0.50
PREREQUISITE	Intro to Music Theory and Beginning Piano or	OPEN TO GRADE(S)	9, 10, 11, 12
	Instructor Permission		
DESCRIPTION	Students will learn music theory beginning with concepts of harmony, rhythm, transcription, and harmonic analysis. Students will also work on developing piano skills starting with basic duets and continuing to some ability-based solo repertoire. Students must either complete the introduction to Music Theory and Beginning Piano course before enrollment or obtain instructor permission to enroll in this course.		

COURSE TITLE	9th Grade Band	CREDIT VALUE	1.00
PREREQUISITE	Previous Instrumental Experience	OPEN TO GRADE(S)	9
	The 9th Grade Band is open to ninth-grade stude program in high school. The objective of this band instruction to the freshmen of the Elizabeth Forward be knowledge through a wide range of musical styles are classical band works, marches, and popular music concerts throughout the school year in addition to the	class is to provide additional, and program. The band will reind composers by way of study. The 9th Grade Band will pee Commencement Ceremony.	more focused nforce musical ing a variety of erform multiple Other festivals
	and community performances may be added from yea	ar to year at the discretion of the	e director.

COURSE TITLE	Symphonic Wind Ensemble	CREDIT VALUE	1.00	
PREREQUISITE	Previous Instrumental Experience	OPEN TO GRADE(S)	10, 11, 12	
	The Symphonic Wind Ensemble is open to all students in grades ten through twelfth enrolled in the			
	Elizabeth Forward Band Program. The objective of this band is to strive for the highest possible			
	musical achievement through the performance of intermediate to advanced band literature. The			
	band will reinforce and master its musical knowledge	e through a wide range of mus	ical styles and	
	composers by way of studying a variety of classical band works, marches, and popular music. The			
	Symphonic Band typically performs multiple concerts a year and at Graduation and			
	Commencement ceremonies. Other festivals and co	ommunity performances may b	be added from	
	year to year at the discretion of the director.			

COURSE TITLE	Partners in Music	CREDIT VALUE	1.00
PREREQUISITE	Placement according to need	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Partners in Music is a class that brings together lea shared music performance. In this class, students wi expected to take a leadership role as they direct the er	ll sing, dance, and play song	gs. Students are

COURSE TITLE	Jazz Ensemble	CREDIT VALUE	1.00
PREREQUISITE	Current enrollment in another EFHS performing	OPEN TO GRADE(S)	9, 10, 11, 12
	Ensemble or Director permission		
DESCRIPTION	Students will have the opportunity to play and perfor idiom. The ensemble will perform multiple concerts colleges and universities. Improvisation is encourag Students must be enrolled in this ensemble to audition the school day. In extenuating circumstances, studer may obtain director permission to participate in this gr	during the school year including ed, as it is an essential part of the Latin Ensemble that into the enrolled in another ensemble.	ing festivals at of these styles. rehearses after

COURSE TITLE	String Ensemble	CREDIT VALUE	1.00
PREREQUISITE	Current enrollment in another EFHS performing	OPEN TO GRADE(S)	9, 10, 11, 12
	Ensemble or Director permission		
DESCRIPTION	This class is designed to provide students the opport of the string family: violin, cello, viola, and string class "master" instrument for either the semester or for the solo pieces and ensemble pieces throughout the participate in four evening performances and numerous	ss. Éach student will be require e entire year. The students wil e year. This class will requir	ed to declare a

COURSE TITLE	Percussion Ensemble	CREDIT VALUE	1.00
PREREQUISITE	Teacher recommendation and/or current enrollment in another EFHS performing ensemble	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Percussion Ensemble is open to all students who a ensemble and/ or receive teacher recommendation to is to strive for the highest possible musical achie specifically written for a percussion ensemble. These the Symphonic Wind Ensemble.	o join this course. The objective evement through the performant	e of this course ance of music

COURSE TITLE	Chamber Music	CREDIT VALUE	1.00
PREREQUISITE	Current enrollment in EFHS performing	OPEN TO GRADE(S)	10, 11, 12
	ensemble		
DESCRIPTION	Students will be grouped in several different ensembles in this class ranging from duet pairings to larger instrument-oriented groups to experience chamber music repertoire written for their particular instrument. Students will also begin working on solo literature to prepare for semester and final-year juries. Any student looking to audition for honors ensembles through PMEA or similar organizations should seriously consider this course. Students desiring to continue into a collegiate music department at any level should also heavily consider this course.		or their or semester PMEA or

COURSE TITLE	Beginning Band	CREDIT VALUE	1.00
PREREQUISITE	None but prior band experience preferred	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	The Beginning Band is open to all students in grades you will have the option of going to all Home and Awa also be invited to participate in the annual Veteran's D Concert. Students in this class will have the option of	ly football games throughout th Day Concert, Winter Concert, a	ne fall. You will nd Spring

### Remediation

COURSE TITLE	Keystone Algebra 1 Tutorial	CREDIT VALUE	0.50
PREREQUISITE	Scoring Less than Proficient on Keystone	OPEN TO GRADE(S)	9, 10, 11
	Exams		
DESCRIPTION	This course is designed to support students in achieving success on the Keystone Algebra I Exam.  During this semester course, the students will improve their skills in both modules. Module I will cover Operations and Linear Equations and Inequalities. Module 2 will cover Linear Functions and Data Organizations.		

COURSE TITLE	Keystone Biology Tutorial	CREDIT VALUE	0.50	
PREREQUISITE	Scoring Less than Proficient on the Keystone	OPEN TO GRADE(S)	10, 11	
	Exams			
DESCRIPTION	is a semester-long course where students will reviet the Basic Biology Principles, the Chemical Basic	w the 8 major principles of Bio s for Life, Bioenergetics Ho	This course is designed to support students in achieving success on the Keystone Biology Exam. It is a semester-long course where students will review the 8 major principles of Biology which are the Basic Biology Principles, the Chemical Basics for Life, Bioenergetics Homeostasis and Transport, Cell Growth and Reproduction, Genetics, Theory of Evolution and Ecology.	

COURSE TITLE	Keystone Literature Tutorial	CREDIT VALUE	0.50
PREREQUISITE	Scoring Less than Proficient on Keystone	OPEN TO GRADE(S)	11, 12
	Exams		
DESCRIPTION	This course is designed to support students who	scored less than proficient on	the Keystone
	Literature exam in grade 10. This course will focus on improving reading comprehension, spelling,		
	vocabulary, and other skills that will help students strive for proficiency before attempting to retake		
	the Keystone Literature Exam in grade 11. Students will review supplementary pieces of text		
	chosen by the instructor as part of state-required remediation efforts. Students will work to		
	strengthen their literary analysis skills as they identify figurative language elements in literary		
	fiction. They will also work on their analysis of literary nonfiction and the identification of rhetorical		
	strategies used in persuasion. Students will be enrolled in this course if they score basic or below		
	on the state exam in grade 10. This course may be o	ffered asynchronously online.	

COURSE TITLE	Reading Strategies	CREDIT VALUE	1.00
PREREQUISITE	Placement According to Need	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course is designed to support students who are having difficulty reading at grade level. The		
	goal of this course is to have students develop better reading strategies and improve		
	comprehension. Instruction will be differentiated to address a student's individual needs using		
	instructional software and high-interest fiction/nonfiction materials. Systematic direct instruction in		
	reading skills, vocabulary, writing, and grammar will be included. Students will work in small		
	groups, independently, and one-on-one with the teac	her. Students may be in the co	ourse for more
	than one year.		

#### Science

Faculty:

Sean BrowneVicki JacksonGreg MartzFrank ChampNolan LarryMalena MazurekMichael DayMark MaresAmanda Rose

#### Philosophy:

The Elizabeth Forward Science Department is committed to developing in our students the skills necessary to make the connections between classroom learning and real-world application to help comprehend and appreciate the natural world. Our goal is to expose students to the various fields of science and scientific study to foster scientific literacy. By focusing on the following criteria, we aim to equip students with the necessary skills to succeed in the twenty-first century:

- Development of critical thinking and problem-solving skills
- Development and utilization of written and oral communication
- Exposure to the use of modern technology and the latest laboratory techniques
- Importance and use of mathematics in science
- Use of the scientific method and the ability to analyze data
- Importance of teamwork
- Importance of personal responsibility

<sup>\*</sup>Students have the right to refuse to dissect, vivisect, incubate, capture, or otherwise harm or destroy animals or any parts thereof as part of their course instruction.

COURSE TITLE	Biology	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	9
DESCRIPTION	The course content is reflective of the state standa Keystone exam. It is structured around 2 big ideas: Unity of Life. Students will learn the basic charact function of biomolecules, the structure of the cell, be methods of transporting substances into and out of including photosynthesis and cellular respiration. The growth and development through cell division, evol ecological interactions. At the end of this course, st Biology Keystone Exam.  This class meets 6 periods per week.	Cells & Cell Processes and Theristics of all living things, the fore then learning cellular processes and methods of processes and methods of processes and the study of popular the cell.	he Continuity & e structure and esses including cessing energy nclude genetics, ations and their

COURSE TITLE	Honors Biology	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Pre-Biology (grade 8)	OPEN TO GRADE(S)	9
	with a final grade of 80% or better		
DESCRIPTION	Honors Biology is a weighted course designed to challenge students. The course content is		
	reflective of the state standards and anchors used	to create the Keystone Biolo	gy Exam. The
	state-mandated Keystone Biology exam is administer	ed in May and students must e	arn a proficient
	or advanced score.		
	Module A: Cells and Cell Processes		
	1. Basic Biological Principles: characteristics of life, levels of organization, cellular organelles		
	<ol><li>Chemistry of Life: basic bonding, properties o</li></ol>	f water, organic compounds, ei	nzymes
	Cellular Energetics: photosynthesis and cellular respiration		
	4. Homeostasis and Transportation: passive and active transport, cell membrane structure.		
	Module B: Continuity and Unity of Life		
	Cell Reproduction: mitosis and meiosis		
	2. Genetics: inheritance of traits using genetics p	problems, protein synthesis	
	3. Evolution: creation of Earth, change in organis	sms over time	
	4. Ecology: food chains and webs, energy transf	fer, traits that help with survival	
	This class meets 6 periods per week.		

COURSE TITLE	Applied Chemistry	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	10
DESCRIPTION	This course is designed to give students experience knowledge of how to analyze experimental data and go to the physical and chemical classification of matorganizing the elements and relating chemical properties of the physical properties of the physical and chemical properties of the physical properties of the physi	generalize from it. Students wi tter and the periodic table a erties to atomic structure. The nical reactions that can be a chemical concepts, and requi	Il be introduced as a means of the students will represented by

COURSE TITLE	Academic Chemistry	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Algebra I with a grade of 70% or higher, or successful completion of Algebra I with a grade of 90% or higher, or a teacher recommendation. Also, successful completion of Biology with a passing grade.	OPEN TO GRADE(S)	10
DESCRIPTION	as well as the changes it undergoes during chemical lectures, group work, laboratories, inquiry-based a placed on logical thinking and problem-solving ski	e composition, structure, properties, and behavior of matter, uring chemical reactions. These topics are covered through quiry-based activities, and projects. Heavy emphasis is m-solving skills. Chemistry is a quantitative science, so we a strong background in mathematics, specifically basic calculator.	

COURSE TITLE	Honors Chemistry	CREDIT VALUE	1.00
PREREQUISITE	To enroll in Honors Chemistry students MUST meet BOTH: one (1) of the following science prerequisites AND one (1) of the following math prerequisites.  1. SCIENCE: Successful completion of Honors Biology with a final grade of 80% or higher, or successful completion of Biology with a final grade of 90% or better.  2. MATH: Successful completion of Honors Algebra II with an 80% or higher, successful completion of Academic Algebra I with a 90% or higher.	OPEN TO GRADE(S)	10
DESCRIPTION	Algebra I with a 90% or higher.  Chemistry is defined as the branch of science, which is built upon the identification of the substances of which matter is composed, and the manner in which it interacts, combines and changes to form new materials. Through the course of study of chemistry, students explore the relationships between the properties and the structures of matter in terms of the atom and its subatomic particles, the periodic table of elements, chemical compounds and reactions, and ultimately, how to observe and measure these chemical phenomena through quantitative and qualitative analysis both in and out of the laboratory. High levels of mathematical skills are emphasized. Understanding of science content is enhanced when concepts are grounded in inquiry experiences. The use of scientific inquiry ensures that students develop a thorough understanding of these key concepts, processes, knowledge and understanding of scientific ideas, and the work of scientists. This course is intended for students who (a) have a good aptitude and interest in science and math, and (b) are willing to develop and practice independent study skills. This course is designed to prepare students for AP Chemistry and/or a college level chemistry course. A calculator and lab goggles are necessary for this course. This class meets 6 periods per week.		combines and onts explore the

COURSE TITLE	Digital Electronics and Robotics (PLTW)	CREDIT VALUE	1.00
PREREQUISITE	Students must have a final grade of 80% or	OPEN TO GRADE(S)	9,10,11,12
	better in either their last scheduled science or		
	math class		
DESCRIPTION	From smartphones to drones and automated factories provides a foundation for students who are interest circuit design. Students study topics such as combin to circuit design tools used in industry, including logic logic devices. This class will also explore projemicrocontroller and Raspberry Pi's, such as LED light an autonomous fighting robot. During this course, so Warrior Bots class to design and wire the electrical so for the competition robots. This course is part of the www.pltw.org for more information.	sted in electrical engineering, ational and sequential logic ar gates, integrated circuits, and ects that can be made using strips, alarm systems with ke tudents will also work collabors system and assist with the emb	electronics, or nd are exposed programmable ng an Arduino yless entry and ratively with the pedded controls

COURSE TITLE	Applied Physics	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11
DESCRIPTION	Applied physics provides an introduction to the basic universe and explores these principles through ground projects. It is presented on a conceptual le However, the class is designed for students who halgebra.	up work, discussion, laborator vel with a limited amount of	y experiences, mathematics.

COURSE TITLE	Academic Physics I	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Algebra 2 with a 70% or higher and successful completion of Applied Chemistry with a final grade of 90%, or a passing grade in Academic Chemistry	OPEN TO GRADE(S)	11
DESCRIPTION	Physics provides an introduction to the basic underlying principles that govern the physical universe and an opportunity to meet these principles through group work, discussion, laboratory experiences, and projects. It is presented in a logical manner and is designed for students who plan to continue their education after high school. Mathematics is the language of physics; therefore, a strong mathematical background is needed for the course. A scientific calculator is a necessary tool for this course.		

COURSE TITLE	Honors Physics	CREDIT VALUE	1.00
PREREQUISITE	1. Successful completion of Honors Chemistry with a final grade of 70% or better. 2. Successful completion of Academic Chemistry with a final grade of 80% or better. 3. Currently enrolled in Trigonometry/Pre-Calculus OR Honors Geometry	OPEN TO GRADE(S)	11
DESCRIPTION	Honors Physics provides an introduction to the underlying principles that govern the behavior of the physical universe. Emphasis is placed on theory, abstract reasoning, and mathematical analysis. A strong mathematical background is required for this course. Areas of study include the mathematics of motion, Newton's law of motion, the law of gravity, mechanical energy, linear momentum, and other selected topics that are relevant to the course. Learning will be facilitated through discussions, multimedia activities, work groups, and laboratories. A scientific calculator is required for the course. Honors Physics is designed for students who plan to pursue careers in science, technology, engineering and mathematics. (STEM)		

COURSE TITLE	Academic Physics II	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Academic Physics I,	OPEN TO GRADE(S)	12
	Honors Physics or Applied Physics with a final		
	grade of 80% or better.		
DESCRIPTION	Physics 2 is a course designed for those students who would like to investigate topics in physics beyond those covered in the eleventh-grade physics course. The course covers four main areas of study including engineering, astrophysics, vibrations and waves, light and sound, and electricity and magnetism. Students will gain a better understanding and appreciation for common physical phenomena that they experience in their everyday lives as well as the nature of the cosmos. Mathematics is the language of physics; therefore, a strong mathematical background is needed for the course.		

COURSE TITLE	Environmental Science	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11, 12
DESCRIPTION	Environmental Science is a multidisciplinary field that fields, to help us better understand the relationship live. Human interactions with the ecosystem and the components of this academic area. Students will be their interactions; Watersheds and Wetlands; Renewal Integrated Pest Management; Environmental Healt Endangered, and Extinct Species. This course will problem solvers in real issues that affect them, their his Students will be provided an introduction to the learning experiences in the Freight Farm.	between humans and the work he results of human decisions introduced to topics such as E able and Nonrenewable Sourch; Laws and Regulations; ar allow students to be active pomes, schools, and communiti	rld in which we so are the main cosystems and res; Agriculture; and Threatened, participants and ries.

COURSE TITLE	Honors Anatomy and Physiology	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Biology with a final grade of 85%, or Honors Chemistry with a final grade of 80% or better, or Successful completion of Academic Chemistry with a final grade of 85% or better, or successful completion of Applied Chemistry with a final grade of 90% or better	OPEN TO GRADE(S)	11, 12
DESCRIPTION	with a final grade of 90% or better  This course is designed to provide essential content to the student who is considering a career in an allied health field. This would include the following professions: doctor, pharmacist, nurse, radiology technician, nuclear medical technologist, laboratory technologist, physical therapist, emergency medical technologist, and mental health paraprofessional. Nonhuman (rats, pigs, cats) anatomy is thoroughly investigated through extensive laboratory work* involving dissection. (2 lab periods a week) Comparisons and contrasts are then made to human anatomy. Fundamental biochemistry, extensive nomenclature, and principles of embryology are also included.  This course can fulfill the senior year science requirement for accelerated science students.		

COURSE TITLE	AP Biology	CREDIT VALUE	1.00
PREREQUISITE	1. Successful completion of Biology with a final	OPEN TO GRADE(S)	11, 12
	grade of 90% or better, or successful		
	completion of Honors Biology with a final grade of 85% or better		
	2. An overall G.P.A. of 3.0 or better		
	3. Successful completion of Honors Chemistry		
	with an 80% or better, or successful		
	completion of Academic Chemistry with an		
DESCRIPTION	85% or better  Advanced Placement Biology is a college-level cours	l se available to juniors and seni	ors who qualify
DECORAL FIGH	as per the criteria stated above. The AP Biology coul		
	advanced inquiry and reasoning skills, such as des		•
	data, applying mathematical routines, and connect	•	•
	emphasizing science practices. The science practi		
	evidence and use them to develop and refine test phenomena. Because content, inquiry and reasoning	•	
	learning objective combines content with inquiry are		
	practices.	S	
	The key concepts and related content of AP Bio		
	principles called the big ideas, which encompass to processes governing living organisms and biologic		
	activities for each big idea. There is a summer assi		•
	class.	gp.otou	
	Big Idea 1: Evolution		
	The process of evolution drives the diversity and unity	of life.	
	Big Idea 2: Cellular Processes: Energy and Communication		
	Biological systems utilize free energy and molecular building blocks to grow, reproduce, and to maintain dynamic homeostasis.		
	Big Idea 3: Genetics and Information Transfer Living systems store, retrieve, transmit, and respond to information essential to life		
	processes.	o information essential to life	
	Big Idea 4: Interactions		
	Biological systems interact, and these systems and th	eir interactions possess compl	ex properties.
	This class meets 7 periods per week.		
	This may also be offered as a College-in-High-Sch college/university for optional college credit.	nool (CHS) course in affiliation	on with a local
	This course provides the proper background for tak year's end, which is highly recommended.	ing the Advanced Placement I	Examination at

COURSE TITLE	AP Chemistry	CREDIT VALUE	1.00
PREREQUISITE	<ol> <li>If taken as a junior, a final grade of 85% or better in Honors Chemistry or final grade of 90% or better in Academic Chemistry. If taking as a senior, a final grade of 85% or better in Honors Physics or a final grade of 90% or better in Academic Physics</li> <li>An overall G.P.A. of 3.0 or better</li> </ol>	OPEN TO GRADE(S)	11, 12
DESCRIPTION	The Advanced Placement Chemistry course is descollege-level course available to juniors and seniors. The course is structured around the big ideas deframework and it is expected that the students have chemistry concepts covered in their first-year chemister week with three single-period sessions and two journal, and safety goggles/glasses are necessar qualitatively from the first-year chemistry course with on chemical calculations, and the conceptual and Quantitative differences appear in the number of topic students, the fast-paced curriculum, and the nature and a summer assignment to be completed for the first day	who qualify as per the criteri- escribed in the AP Chemis re a strong background in the try course. This class meets of double-period sessions. A ry for this course. AP Che respect to the topics covered mathematical formulations as covered, the time spent or d variety of laboratory experir	a listed above.  try Curriculum ne foundational seven periods calculator, lab emistry differs the emphasis of principles. The course by
	BIG IDEA 1: SCALE, PROPORTION, AND QUANTITY	(SPQ)	
	BIG IDEA 2: STRUCTURE AND PROPERTIES (SAP)		
	BIG IDEA 3: TRANSFORMATIONS (TRA)		
	BIG IDEA 4: ENERGY (ENE)		
	This may also be offered as a College-in-High-School college/university for optional college credit.	ool (CHS) course in affiliatio	on with a local
	This course provides the proper background for takin year's end, which is highly recommended.	g the Advanced Placement I	Examination at

# Science

COURSE TITLE	AP Physics C	CREDIT VALUE	1.00
PREREQUISITE	1. Successful completion of Academic Physics I	OPEN TO GRADE(S)	12
	with a final grade of 90% or better, or		
	successful completion of Honors Physics with		
	a final grade of 85% or better		
	2. An overall G.P.A. or 3.0 or better		
	3. Currently enrolled in Calculus or AP Calculus		
DESCRIPTION	Advanced Placement Physics is a college-level cours	se available to seniors who qu	alify as per the
	criteria listed above. It is assumed that prospective	students will possess the nec	essary skills in
	Advanced Algebra and Trigonometry to manage the	rigorous quantitative aspects	of the course.
	These aspects include solving word problems, data and graphical analysis, vector analysis, and a		
	general understanding of variable relationships. Problem-solving and critical-thinking skills are a		
	must. Calculus will be introduced in the theoretic	al development of some con	cepts such as
	quantities of motion, work, the law of gravity, and the	ne laws governing electricity a	nd magnetism.
	The goals for percentage of coverage in two general	l areas are as follows: Newton	ian Mechanics
	(60 percent), Electricity and Magnetism (40 percent).		
	This may also be offered as a College-in-High-School (CHS) course in affiliation with a local		
	college/university for optional college credit.		
	This course provides the proper background for tak	ing the Advanced Placement I	Examination at
	year's end, which is highly recommended.		

#### Social Studies

#### Faculty:

Paul Callaghan Brandon Gerba Steve DeFelices Brian Madar Robert Raffaele

## **Philosophy:**

Studying the social sciences will enable students to make appropriate decisions about social and civic affairs. Social studies education provides students the opportunity to gain and apply historical knowledge and to perform the skills as indicated below.

- Develop critical thinking skills, responsible decision-making, competency in problem-solving, interpreting data, and differentiating between fact and fiction
- Prepare to participate competently and productively as concerned citizens in today's society.
- Address the ever-changing global and cultural issues of our world
- Become aware of their roles as citizens in society and prepare to participate actively, competently, and productively
- Utilize literature, community resources, and technology

COURSE TITLE	Modern Western Civilization	CREDIT VALUE:	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	9
DESCRIPTION	The scope of the course covers the period of time from II. Emphasis is on the study of the political, social, of the European countries. The study also includes events to show the relationships these have with other meaning of history in its relevance to the history of the	cultural, religious, and economi the causes and effects of signi er countries. Students will als	ic development ficant historical

COURSE TITLE	U.S. History	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	10
DESCRIPTION	This course will cover United States History from the post-Civil War period to the present time.		
	The following topics will be included: urbanization	on, politics and reform in th	e Gilded Age,
	Imperialism and becoming a world power, the pro	gressive era, World War I,	prosperity and
	depression of the 1920s and 1930s, World War II, Cold War era, Korean and Vietnam era, and the		
	contemporary world up to the present time in history. Methods of instruction will include lectures,		
	group activities, debates, class discussions, reports, and guest speakers. After completing this		
	course, students will have a general understandin	g of the process of analyzir	ng history from
	political, social, geographical, and economical viewpo	ints.	-

COURSE TITLE	World Cultures	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11
DESCRIPTION	The study of World Cultures is to create within the sidifferent people and their culture in order that he/sh world. A "weltanschauung" (world view) approach visocial institutions, the world's great religions, governantistic expression, and the major issues facing the more	ne might more effectively under vill be taken in this course, Un nment and economics systems	erstand today's lits will include

# Social Studies

COURSE TITLE	American Government	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	12
DESCRIPTION	American Government is a one-semester course off system of government. As part of the course, stubranches of government, and related current event reports, and projects, in addition to other sources or required course for all seniors unless they are taken	dents will study the Constitutes. Units of instruction will incomplete fine information. American Gov	tion, the three clude lectures, vernment is a

COURSE TITLE	Economics	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	12
DESCRIPTION	This course is to introduce seniors to basic economic theory. The course is divided into seven		
	units. Units include Wants & Needs, Supply & Demand, Pricing, Business Structures, and Market		
	Structures. Also included in the unit will be a comparison of the three economic systems found in		
	the modern world: the Market, Traditional, and Command. Unit Two will concentrate on the market		
	system with emphasis on how wants lead to production, the influences on prices in our economy,		
	and the roles of the four factors of production: land, la	bor, capital, and entrepreneurs	S

COURSE TITLE	Sociology	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	12
DESCRIPTION	Sociology is offered as a one-semester course to gi social system in which one exists. The course is domanner in which they impact and are impacted by so understand the phenomena taking place around the Emphasis is placed on the development of the study socialization, conformity, family, adolescence, gender,	esigned so that he/she may ociety. Students will be able em and analyze these in and dent's knowledge concerning	understand the to observe and objective way.

COURSE TITLE	Psychology	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	11, 12
DESCRIPTION	Psychology is offered as a one-semester course to predict and control their behavior. Such topics a personality, mental illness, and behavioral pattern experiments, self-testing, lectures, and role-playing a course is recommended for college-bound students.	s experimental methods, leans are investigated. Individ	rning theories, lual and class

COURSE TITLE	AP U.S. History	CREDIT VALUE	1.00
PREREQUISITE	1. GPA of 3.75 overall for previous years	OPEN TO GRADE(S)	10
	2. Social Studies G.P.A of 4.0		
DESCRIPTION	Advanced Placement U.S. History correlates the usefulness of history by showing that history is to mat conclusions, AP U.S. History shows "why" or "hocircumstances. Students look at all sides of a alternatives in order to decide why events occurred point of departure from other sources. Interactive videos are included in methods of instruction. The equivalent to those of an introductory college-level co *This course may be substituted for American Govern This may also be offered as a College-in-Himita with a local college/university for optional college/university for optional college/ser's end, which is highly recommended.	an as memory is to the individed by rather than "what" happe historical problem and then as they did. The text, in this of discussions, lectures, essays are course makes demands on the entire. A summer assignment ment during the senior year of the entire that is to the entire that the	dual. In arriving ens in particular neliminate the case, must be a s, debates, and on the students t is required.  In affiliation

COURSE TITLE	AP European History	CREDIT VALUE	1.00
CRITERIA	1. GPA of 3.75 overall for previous years	OPEN TO GRADE(S)	11, 12
EVALUATED	2. Social Studies G.P.A. of 4.0		
DESCRIPTION	1. GPA of 3.75 overall for previous years OPEN TO GRADE(S) 11, 12		

#### Social Studies

COURSE TITLE AP World History **CREDIT VALUE** 1.00 1. GPA of 3.75 overall for previous years CRITERIA **OPEN TO GRADE(S)** 11, 12 **EVALUATED** Social Studies G.P.A. of 4.0 DESCRIPTION Advanced Placement World History will encompass five varying themes to challenge pupils. The course will be reading and writing intensive. Unit themes include interactions between humans and the environment, state-building, the creation of economies, and the development of social structures. The interactions between various cultures will be examined in great detail. Course curriculum begins with man's early development and ends with accelerating global change. The course provides balanced global coverage, with Africa, the Americas, Asia, Oceania, Australia and Europe all represented. A summer assignment is required. \*This course may be substituted for American Government during the senior year only. This may also be offered as a College-in-High-School (CHS) course in affiliation with a local college/university for optional college credit. This course provides the proper background for taking the Advanced Placement Examination at year's end, which is highly recommended.

#### AP CAPSTONE:

The AP Capstone Program was developed by the College Board in conjunction with higher education professionals in response to a demand for students who are critical, analytical thinkers. The program incorporates critical reading, argumentation, and research skills through rigorous reading, writing, and research-based projects. The program is interdisciplinary in nature, offering students with interests in all academic areas the opportunity to explore them.

The AP Capstone Program includes two courses, AP Seminar and AP Research. The foundational course, AP Seminar, is taken ideally in the 10<sup>th</sup> or 11th-grade year and followed immediately by the culminating course, AP Research, the following year. Students who earn only a 3 or better in both courses and having earned a 3 or better on the four additional AP exams in any other subjects will receive an AP Capstone Diploma. Students who earn only a 3 or better in AP Research and AP Seminar courses will receive an AP Seminar and Research Certificate.

COURSE TITLE	AP Seminar	CREDIT VALUE	1.00
PREREQUISITE	Having taken or simultaneously taking at least	OPEN TO GRADE(S)	10, 11, 12
	ONE AP course in any subject		
DESCRIPTION	In this course, students explore topics in multiple distinated are nonfiction in nature. They will explore and stopics from multiple perspectives at a collegiate level reading skills, research skills, speaking skills, and Students will synthesize information in order to arguments both individually and as part of a team students for work at the collegiate and professional leads per the requirements of the College Board, a team an exam are required for the course and to earn AP English credit.  A summer reading is required.	solve real-world problems while of inquiry. Students will hone writing skills in a multidisciple produce written and oral error. APA Style will be used so evels. No fiction will be studied a presentation, an individual presentation.	e engaging the their analytical linary manner. vidence-based as to prepare in this course. esentation, and

COURSE TITLE	AP Capstone Research	CREDIT VALUE	1.00
PREREQUISITE	Completion of AP Seminar with a 70% or better	OPEN TO GRADE(S)	11, 12
DESCRIPTION	In this course, students will use the skill set devel produce research projects in multiple subject areas, research question that will serve as a guide for writin will use the QUEST framework established by the Cointerests. Students will learn how to do ethical rese primary sources when writing scholarly papers. APA research-based compositions and projects that inconsecondary, and will present their findings in an orange choice with written components, an oral defense, and appropriate for their topics. This does not substitute for a summer reading is required.	When researching, students of collegiate-level academic paragraph and synthesize multiple so a Style will be utilized. Student orporate multiple sources, both all defense. As per the require research project on a topic of deither visuals, performances,	will develop a pers. Students their research secondary and ts will produce h primary and ements of the f the student's

COURSE TITLE	Drivers' Education Theory	CREDIT VALUE	0.25
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This nine-week course will provide students with an anomalous of classwork is required for the successful man-made and natural laws, physical and psycholous proper care and maintenance of a vehicle, and proper a skillful, knowledgeable, courteous, and safety-constrom local and the Pennsylvania State Police to in addition, various video presentations will be review. There will also be car maintenance demonstrations as be graded based on attendance, participation durassignments, and evaluations. Students who succertificate of completion stating that they completed a State of Pennsylvania.	introduction to Drivers Theory. I completion of this course. Togical traits, legal rights and reper attitudes necessary for the decious driver. Activities will include form students about new law wed to reinforce topics discussed and safe driving simulations. Toring class activities, completices and some students activities.	A minimum of opics include: esponsibilities, evelopment of ude speakers changes. In esed in class, his course will on of in-class will receive a

COURSE TITLE	Study Skills	CREDIT VALUE	0.50 or 1.00	
PREREQUISITE	Placement According to Needs	OPEN TO GRADE(S)	9, 10, 11 ,12	
DESCRIPTION	academic success in high school. The course will us	Study Skills is a course designed to enhance student study skills and IEP goals needed for academic success in high school. The course will use a systematic approach to the strengthening of skills which includes studying techniques, note taking, time management, listening, test taking,		

COURSE TITLE	Media Center Internship	CREDIT VALUE	0.50
PREREQUISITE	Interest survey to indicate background	OPEN TO GRADE(S)	10, 11, 12
	experience using digital technology. Maintaining		
	a "C" average or 2.0 in overall GPA		
DESCRIPTION	This specialized course requires students to exhibi	t efficient application and pra	ctice with the
	following technologies: 1) Using the Protocols software to create and import tracks, convert		
	formats, use voice modulations, clip, duplicate, delete and export finalized tracks. 2) Using the		
	Tricaster software to create video clips for personal use or to help a classroom teacher with a		
	project. 3) Students will be able to export digital media onto the server and import it into the		
	Tricaster software. 4) Using Novation Launchpad to create original live mixes. 5) Using iMovie and		
	Media Composer and Adobe Premiere Pro to edit video. 6) Photoshop to edit photos. 7) Setting up		
	hardware such as smart boards, projectors, cameras, speakers, etc. for assemblies and special		
	events. 8) Creating and maintaining spreadsheets, us		
	to locate eBooks, books, and databases. 9) Ability	to use professional video ca	ameras to film
	special events and assemblies.		

COURSE TITLE	Print Media Productions	CREDIT VALUE	1.00	
PREREQUISITE	None for the 1 <sup>st</sup> year students.	OPEN TO GRADE(S)	9, 10, 11, 12	
	Application for returning students			
DESCRIPTION	Print Media Production is designed to provide the students an opportunity to explore the various			
	print news venues encompassed at Elizabeth Forward High School. Students will learn the skills			
	needed to create a High School Yearbook and a High School Newsletter. Second year students			
	will form the editorial staff of each publication. Students will learn how to write articles, the basics			
	of photography, layout and design skills, how to use the software affiliated with each media,			
	managerial skills, and problem-solving skills. Attendance at after-school activities is required for			
	this course.		•	

# Special/Other Courses

COURSE TITLE	Multimedia Productions	CREDIT VALUE	1.00
PREREQUISITE	None but a strong interest in multimedia	OPEN TO GRADE(S)	9, 10, 11, 12
	production		
DESCRIPTION	Multimedia Productions is designed to provide the s multimedia venues of production. The outcomes for t team for the morning announcements, website me Second-year students will serve as the producer for while first-year students experience the various med Students will create a digital portfolio of all projects are at after school activities is required for this course.	this class, including working on dia, video production, and au or the announcements and vi dia outlets and produce on a r	the production dio production. deo production otational basis.

COURSE TITLE	SAT Test Preparation	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	11, 12
DESCRIPTION	This semester course provides students with nine wand nine weeks of reading/writing-based test prepara early in the course to assess their skills. Additional e throughout the marking period allowing the teacher progress. Test-taking/ time strategies, grid-in/ multipl will complete the coursework for the semester.	ation. Students will complete a exams and section practice tes r(s) and students to analyze	baseline exam sts will be given their data and

COURSE TITLE	Senior Work Experience	CREDIT VALUE	1.00 Credit per class period limit 3 class periods
PREREQUISITE	Open to Seniors Only. All seniors must have received a score of Proficient in Keystone Biology, Keystone Math, and Keystone Literature. Seniors cannot use Work Experience credits to count toward graduation requirement total.	OPEN TO GRADE(S)	12
DESCRIPTION	All students must register for this course through their high school guidance counselor in addition to having approval from the building principal. Also, all students must have verification from the employer for work hours - which must be scheduled during school hours (in which the student is not in attendance at the high school). Students and parents will sign a Work Experience contract, which will detail the specifics of this program. Students may be removed from the experience for non-attendance or other discipline issues and placed back into other high school courses.		

# Special/Other Courses

Course Title	Warrior Bots	Credit Value	0.50
Prerequisites	None	Open to Grade(s)	10,11,12
Description			

# **Technology Education**

#### Faculty:

Amy Duschek Tom Glass Megan Smith

#### Philosophy:

The true purpose of technology education is to make students as technologically literate as possible. This is done by incorporating technology, math, and the sciences. By synthesizing these three (3) subjects, students are able to understand and apply many aspects of the technology that we have today; this is crucial to the development and stability of our society. Technology Education is a comprehensive, action-based educational program concerned with technical means, their evolution, utilization, and significance.

COURSE TITLE	Material Processing I	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This is a half-year elective course that focuses of various tools and machines. A focus on wood processing, 3D printing, laser engraving, and metal understanding of the tools and machines present in Education field.	essing but includes an introdu al fabrication. Participants will	ction into vinyl have a basic

COURSE TITLE	Material Processing II	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Material Processing I	OPEN TO GRADE(S)	9, 10, 11, 12
	with a final grade of 70% or better		
DESCRIPTION	This half-year course serves to advance the par processing to complete more in-depth projects. Duneed to purchase materials for their specific project. Printer, wood processing machines, and metal fab course.	e to the project complexity, page Greater use of the CNC, Lase	articipants may er Engrave, 3D

COURSE TITLE	Transportation Systems	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course will focus on land, air, and water transmodels of cars, boats, planes, rockets, etc.	sportation. Students will lear	n from testing

COURSE TITLE	Manufacturing	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course offers the opportunity to further develop individual skills and manufacturing systems to		
	produce a more advanced product. Production techniques will include manufacturing systems and		
	individual project development. Manufacturing systems will be developed and carried out as a		
	group or class. The purpose of this experience will be to comprehend the problems that must be		
	considered by a typical company when manufacturing	ng products for profit. Individu	ual projects will
	be constructed to allow the student to express individu	ual talents, skills, and interests	-

COURSE TITLE Cons	nstruction and Building Processes	CREDIT VALUE	0.50
PREREQUISITE None	16	OPEN TO GRADE(S)	9, 10, 11, 12
const build stren	s class will emphasize building processes an struction industry. Students will be exposed to fra d full-size projects such as sheds, gazebos, or stangths and weaknesses of beams and trusses that ers, skyscrapers, etc.	ıming, roofing, and finish carpe aircases. Students will also e	entry. They will xperiment with

# Technology Education

COURSE TITLE	Maker Lab	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course will be an exploration into the design encouraged to express their creativity and utilize probation a product. They will be given a tool and safety review review session, students will submit each of their proproduction process. Students will be expected to in vinyl, and 3D printing applications.	olem-solving to research, design wat the beginning of the semo ojects for approval and begin t	n and produce ester. After the the design and

COURSE TITLE	Engineering and Design Concepts (PLTW)	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This is a great course for future engineers or any studies with a hands-on approach. Draw, make, and create! Project Lead the Way Curriculum. Please see www deep into the engineering design process, applying a hands-on projects. They will work both individually as problems using CADD, 3D modeling software, and us work.	This course is designed from the course is designed from the course for more information math, science, and engineering in teams to design solutions	ne engineering Students dig g standards to to a variety of

COURSE TITLE	Advanced Engineering Design Concepts (PLTW)	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course is designed from the engineering recommended that you take CADD, Intro to Engine This is a recommendation but not required. Pleas Students will explore a broad range of engineering to structures and materials, and automation. Students and design while learning strategies for design presentation.	ering, or Engineering and Dese see www.pltw.org for moopics, including mechanisms, develop skills in problem-solo	sign Concepts. re information. the strength of ving, research,

COURSE TITLE	Homeowner University	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course focuses on skills needed to save you tons of money when owning your own home.		
	Everything from basic framing, drywall installation, and repair to basic automotive repair principles		
	will be covered to help give you the confidence to own your own place and buy your first car. Skills		
	taught include: framing, drywall installation and repair, basic wiring principles, plumbing, and		
	automotive skills to help keep your car on the road a	s long as possible. This is a ha	inds-on course
	so be prepared to work in the woodshop and operate	multiple power tools!	

COURSE TITLE	Architectural Building Design and Modeling (with CADD)	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Students will investigate all areas of home design. The plans for a dream house. The concepts explored will be systems, insulation, and laundry and bathroom equipment through model building, AutoCAD, and Architectural E and also develop plans using CADD. This course is reconsumer interest in house planning, students who me graduation, or students intending to further their education architectural design field.	pe roofing, siding, finish mater ment. These concepts will be Desktop. Students will build ph ecommended for students with ay enter the labor construction	rials, heating explored nysical models n a "hobby" or n field upon

# Technology Education

COURSE TITLE	CADD 1 (Creative Computer Drawing and	CREDIT VALUE	0.50
	Design)		
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Have you ever wanted to design your own house, ca	ar, furniture, gaming center, or	anything that is
	built or produced? Students will learn skills with computer-aided drafting by using AutoCAD to		
	produce orthographic projections, isometric pictorials, oblique drawings, sections, and assembly		
	drawing. Also, an introduction to 3D modeling and a brief introduction to architecture will be		
	explored. This course is recommended for pre-engineering students, design or technically-oriented		
	students, and students who simply enjoy drawing,		nd exploring the
	further application of the computer in graphics and en	gineering solutions.	

COURSE TITLE	CADD 2 (Advanced Computer Aided Drawing and Design)	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of CADD 1, or other building, design, or engineering course OR departmental teacher recommendation	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Computer Aided Drafting (CAD) is the process of Students will explore and practice advanced multi-vie the application of 3D CAD to drawing and engine Autodesk's Inventor will be used as the 3D modeling concepts discussed in this course will also be appli This course is intended to help one establish a good I field of computer-aided engineering (CAE).	w orthographic drawing using ering problems is the focus g software. The 3D modeling cable to the other 3D-based	Autocad. Also, of this course. techniques and CAD packages.

COURSE TITLE	T-Shirt TECH-niques	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This hands-on semester course will allow students to graphic printing techniques. Students will learn a screen-printing, vinyl cutting, and sublimation. In addit to tie-dye and bleach fabrics to achieve truly custof elements of design are important components that will	nd apply basic skills in the ition to printing, students will h om apparel! Digital artwork p	e processes of nave the chance

COURSE TITLE	Digital Photography & Editing	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Removing something from the background of a phothings that will be covered in this semester course! on your phone or iPad and then how to edit those Photoshop. This course includes instruction in photographs.	Learn how to use advanced of images using the industry-st	camera settings andard, Adobe

COURSE TITLE	(The iSH Company) Technology	CREDIT VALUE	1.00
	Entrepreneurship		
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	iSH = "in student hands". This is a yearlong internship operation of a real business. All profits will be donated primary products of the real-work business will be cresscreen-printing and printed vinyl. Students will advertive real clients, create and manage an e-commerce websentrepreneurship process. Whatever your interests and is room here for everybody!	I to the causes the students chated using graphic applications se, produce and sell products, site along with other aspects of	noose. The s such as interact with the

#### Visual Arts

Faculty:

Kristy Dubinsky

Malvene Harris

#### Philosophy:

The Visual Arts Department of Elizabeth Forward High School offers an art experience for every student. The curriculum is designed to engage all levels of learning in a traditional art studio setting with a variety of art courses. Art students are encouraged to build a portfolio that represents various mediums and styles of his/her work while enhancing each student's creativity.

COURSE TITLE	Exploring Visual Design	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This is the INTRODUCTORY art course (a prerequisite designed to acquaint students with a variety of medium will utilize their drawing skills while incorporating oth space, and texture within each project.	ns in art. In our creative explo	oration students

COURSE TITLE	Pop, Abstract, and Modern Art	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This class will look at the major modern art movements "contemporary" times. From the impressionist paintings the abstract work of Pablo Picasso & Jackson Pollock, a will examine what it means for a work to be modern. Exartistic styles and media including painting, sculpture, prophotography, to name just a few. Modernism will lead us may defy traditional categorization such as earth art, ins recycled items, and much more. Projects will be collaboration.	s of Claude Monet and Vince and the pop art of Andy Warh amples will be drawn from a rintmaking, assemblage, digi s into the contemporary art si stallation, performance, art m	nt Van Gogh, nol, this course variety of tal, tyles which lade from

COURSE TITLE	Basic Studio Art	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Exploring Visual Design	OPEN TO GRADE(S)	10, 11, 12
	or Fundamentals of Drawing with a grade of 70%		
	or better		
DESCRIPTION	This course will allow the student to build on the learned skills from Exploring Visual Design.		
	Students will begin to study the principles of design (balance, unity, proportion, and emphasis).		
	Students will be introduced to many techniques in a variety of art mediums with the support of		
	technology. Mediums covered include clay, printmaking, sculpture, painting, drawing, metal,		
	weaving, and much more. Art skills will be enhanced with more in-depth projects in the fine arts.		
	Written art history and criticism will be covered as they i	relate to the techniques being	g studied.

COURSE TITLE	Advanced Studio Art 1	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Basic Studio Art with	OPEN TO GRADE(S)	11, 12
	a grade of 80% or better		
DESCRIPTION	Students will begin to focus on advanced-level concurrence variety of art media. Students will explore creati Students will begin to develop independent work in criticism will be covered as they relate to the concurrence Advanced Studio Art 2.	ve problem-solving using vis areas of interest. Art history a	sual materials. and positive art

COURSE TITLE	Advanced Studio Art 2	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Advanced Studio Art	OPEN TO GRADE(S)	12
	1 with a grade of 80% or better		
DESCRIPTION	This demanding advanced art course will allow those students with a serious interest in the visual arts the opportunity to move to an advanced level. This course will provide art students with advanced college preparation in the visual arts. The students will be enriched with art history, criticism, and aesthetics while building a portfolio. This course requires the students to create not only artwork but also to reflect on and research artwork. Students are responsible for purchasing some of their own supplies.		

COURSE TITLE	Beginning Painting	CREDIT VALUE	0.50
PREREQUISITE	Exploring Visual Design	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course is for the development of skills, techn artistic expression using a variety of painting medi creatively express themselves through art by creating will explore watercolors, acrylics, collage, stretching c	ums. This course will challeng and composing work in new	ige students to

COURSE TITLE	Advanced Painting and Mixed Media	CREDIT VALUE	0.50
PREREQUISITE	Beginning Painting	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	This course will offer in-depth exploration of painting interpret creative ideas while developing personal compositions with a variety of materials, paint, coll cutting, pasting, etc. Emphasis will be placed on the on color, mood, texture, and composition.	style. Students will create rage, printing, drawing, mixing	multi-directional g, assemblage,

COURSE TITLE	Partners in Art	CREDIT VALUE	1.00
PREREQUISITE	Any coursework in the Visual Arts and/or	OPEN TO GRADE(S)	10, 11, 12
	teacher recommendation		
DESCRIPTION	This course is designed to improve student achieve collaboration, leadership, and self-expression. Student providing them with the opportunity to work in groups to gain a sense of accomplishment through understated class with a successful end result.	dents will assist students with and one-on-one. The goal is f	n disabilities by for each student

	Ceramics 1	CREDIT VALUE	0.50
COURSE TITLE			
PREREQUISITE	None	OPEN TO GRADE(S)	9,10,11,12
DESCRIPTION	This course displays the medium of clay. Students will develop technical skills in hand building,		
	modeling, molds, wheel throwing, and design. Students will explore all stages of a clay project		
	(making clay – to glazes – to firing). Students will create functional and non-functional projects.		

COURSE TITLE	Ceramics 2	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Ceramics 1 with a	OPEN TO GRADE(S)	10,11,12
	final grade of 90% or better		
DESCRIPTION	This course is for students who want to continue to explore and develop their clay skills. The student <i>must</i> have the potters' wheel <i>mastered</i> . The students will independently create artwork from start to finish, including the firing process. Emphasis will be on advanced performance in studio production, including quality ceramics and mixed media pieces.  An articulation agreement exists between Elizabeth Forward School District and the Art Institute regarding course credit for the successful completion of this course.		

COURSE TITLE	Ceramics 3	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Ceramics 2 with a final grade of 90% or better. Recommendation of an Art teacher must be pre-approved.	OPEN TO GRADE(S)	11,12
DESCRIPTION	This course is designed for the student who has a sincere desire to explore the medium of clay and the process of a potter. The student may work independently while being guided by the instructor. The student and instructor will develop individual targets and goals to be completed by the end of the semester. The students will build upon the skills and techniques learned in the prerequisite classes. The teacher must approve admission to class.		

COURSE TITLE	Crafty Shack	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Exploring Visual	OPEN TO GRADE(S)	10,11,12
	Design with a final grade of 80% or better		
DESCRIPTION	This course will focus on crafts and DIY projects very explore a variety of mediums including glass, fibe	er arts, weaving, leather, jewe	
	Students are responsible for purchasing some of their	own supplies.	

COURSE TITLE	Slip Casting Ceramics	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Slip casting is a ceramic forming technique for pottery. into a plaster mold and allowed to form a layer, the cas is then removed from the mold, trimmed, fired, and rea the ability to customize their individual pieces or use the seasonal and basic functional molds are available.	t, on the inside walls of the mady to glaze or paint. The s	nold. The piece tudent will have

#### Steel Center for Career and Technical Education

Students who attend Steel Center can gain a labor market advantage through active learning that meets the expectations of 21st-century employers and colleges. Each program will guide students through rigorous career-oriented practical activities reinforced through core academic instruction. Students' employability will be further promoted by their opportunity to gain Industry Standard Certifications required by local employers. Students also have the opportunity to join a Career and Technical Student Organization where they will learn leadership and citizenship principles. For more information about the opportunities offered at Steel Center, please visit <a href="https://www.steelcentertech.com">www.steelcentertech.com</a>.

#### PA Department of Education Programs of Study

In accordance with the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Act), all Postsecondary Institutions receiving funds under the Act are required to award **college-level credit or equivalent clock hours** to a matriculated student and apply that credit toward the completion of the approved Pennsylvania Department of Education (PDE) Program of Study, leading to an industry-recognized credential or certificate **at the postsecondary level, or an associate or baccalaureate degree.** The purpose of this Agreement is to ensure that students make the transition from a school entity (**Steel Center**) to another school entity, college or university, or a business/industry without experiencing delays in or duplication of learning. This Agreement sets forth the terms and conditions for the awarding of college-level credit or equivalent clock hours to students who complete the approved PDE Program of Study at a Secondary School so that those students can seamlessly continue their education in a related Program of Study at a Postsecondary Institution. This agreement outlines the general conditions between secondary and postsecondary institutions.

#### **Steel Center Career Majors Course Offerings**

At Elizabeth Forward High School students are permitted to enroll in Steel Center programs beginning in their sophomore year. Students may be denied entry into Steel Center for persistent academic failure and/or being credit deficient for graduation. Decisions about attendance for students with special needs will be made in accordance with their Individualized Education Plan.

Steel Center offers 18 career majors. Each major is based on state and/or locally approved curricula, inclusive of written (theoretical) activities, performance tasks, demonstration of work ethic, and professionalism. For each major, students may earn three (3) or more Carnegie Units (credits) per year, depending on local sending school district policies for credit acquisition. Students may also earn industry certifications and college credits in their respective programs. Steel Center's career majors are as follows, listed alphabetically by local title and accompanied by Pennsylvania Classification of Instructional Program (CIP) codes:

Advertising & Design (Program of Study)		
CIP Code: 50.0402, 3 or more credits/year.		

Grades 10-12

**Industry Certifications Available:** Adobe Certified Associate CS6 Photoshop, InDesign, Illustrator, & Pennsylvania Skills Certification

An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

# <u>Automotive Technology</u> (Program of Study)

CIP Code: 47.0604, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drivetrain and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

#### Baking/Pastry Chef (Program of Study)

CIP Code: 12.0501, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** ServSafe Manager Food Safety, ServSafe Food Handler, S/P2 Culinary Safety and Pollution Prevention, & Pennsylvania Skills Certification

Specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, for consumption in a commercial food service establishment or for special functions. Instruction includes making, freezing and handling of bake products; decorating; counter display; and packaging of merchandise. This is a comprehensive program to prepare individuals for employment in a variety of occupations in the baking industry.

#### **Building Trades Maintenance** (*Program of Study*)

CIP Code: 46.0401, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** Pennsylvania Builders Association Certification (PBA), OSHA-10 Hour Training CareerSafe, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to serve a variety of structures including commercial and industrial buildings and mobile homes. Instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping.

#### **Carpentry** (Program of Study)

CIP Code: 46.0201, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** Pennsylvania Builders Association Certification (PBA), OSHA 10 Hour Training CareerSafe, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

# Collision Repair and Refinishing (Program of Study)

CIP Code: 47.0603, 3 or more credits/year.

Grades 10-12

Industry Certifications Available: S/P2 Collision Safety and Pollution Prevention, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

## **Computer Technology** (Program of Study)

CIP Code: 15.1202, 3 or more credits/year.

Grades 10-12

Industry Certifications Available: A+ Certification, Network+ Certification, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of professionals who use computer systems. This program includes instruction in basic computer design and architecture, programming, problems of specific computer application, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair and report preparation.

<u>Cosmetology</u> (Tech Prep Articulation Agreement with Douglas Education Center)

Grades 10-12

CIP Code: 12.0401, 3 or more credits/year.

Industry Certifications Available: Cosmetology License, Manicurist, Esthetician, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

#### **Culinary Arts** (Program of Study)

CIP Code: 12.0508, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** ServSafe Manager Food Safety, ServSafe Food Handler, S/P2 Culinary Safety and Pollution Prevention, & Pennsylvania Skills Certification

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

Diesel Technology (Program of Study)	Grades 10-12
CIP Code: 47.0613, 3 or more credits/year.	

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, SP/2 Heavy Duty Safety and Pollution Prevention, & Pennsylvania Skills Certification

A program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Electrical Construction (Program of Study) CIP Code: 46.0399, 3 or more credits/year.	Grades 10-12
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**Industry Certifications Available:** Pennsylvania Builders Association Certification (PBA) & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Exercise Science and Rehabilitation Services (Tech Prep) CIP Code: 51.2604, 3	Grades 10-12
or more credits/year.	

**Industry Certifications Available:** To be determined, but may include the following: American Heart Association (AHA) Heartsaver First Aid, AHA CPR, HIPAA Certification, American Medication Certification Association (AMCA) Physical Therapy Aide, & Pennsylvania Skills Certification

A program that prepares individuals to assist in rehabilitation services under the supervision of physical therapists, occupational therapists, speech-language pathologists, and other therapeutic professionals, and to perform routine functions in support of rehabilitation. Includes instruction in roles and responsibilities of rehabilitation providers, basic function of the human body, disabling conditions, therapeutic skills, client management, and communication skills.

Health Assistants (Program of Study)	Grades 10-12
CIP Code: 51.0899, 3 or more credits/year.	

**Industry Certifications Available:** Patient Care Technician/PCT, Basic Life Support Health Care Providers, & Pennsylvania Skills Certification

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed healthcare professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Heating, Ventilation, Air Conditioning & Refrigeration (Program of Study)	Grades 10-12
CIP Code: 47.0201, 3 or more credits/year.	

**Industry Certifications Available:** EPA 608 Technician Certification, Pennsylvania Builders Association Certification (PBA), & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.

Medical Professions (Program of Study)	Grades 10-12
CIP Code: 51.9999, 3 or more credits/year.	

**Industry Certifications Available:** To be determined, but may include the following: Basic Life Support (BLS), Pharmacy Technician (CPhT), EKG Technician (CET), Phlebotomy Technician (CPT), Nurse Technician (CNT), & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply knowledge and skills in the health occupations. Instruction is provided in the basic skills in a variety of areas associated with health occupations such as health and medical services, pharmaceutical and medical instruments and supplies. Instruction includes but is not limited to foundations of health (medical terminology); anatomy and physiology; legal, ethical and economic aspects of health care; clinical laboratory procedures; basic health occupational skills; aseptic techniques; OSHA regulations; and infection control. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives.

Public Safety (Tech Prep)
CIP Code: 51.0904, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** Emergency Medication Technician, National Incident Management System, Basic Life Support Health Care Providers & Hazardous Materials Response Awareness

A program that prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in prehospital settings and to supervise ambulance personnel. Students will learn about basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations. Students will also learn fundamentals of police operations and fire protection, as well as technical and vehicle rescue. Physical development and self-confidence are emphasized due to the nature of the specific occupation(s) associated with public safety.

Veterinary Assistant (Program of Study)Grades 10-12CIP Code: 51.0808, 3 or more credits/year.

**Industry Certifications Available:** To be determined, but may include the following: OSHA-10 Health Careers, CPR, Pet Tech First Aid, Purina Weight Coach, & Pennsylvania Skills Certification

An instructional program that prepares individuals to support veterinarians by providing assistance during animal examinations, treatment administration and monitoring; by keeping animal and related health record information; and by performing a range of selected practice-related duties. This program is designed to provide instruction in preparing the animal for examination and treatment, sterilizing equipment and performing selected routine laboratory procedures under direct supervision of the veterinarian. Instruction also includes maintaining medical and business records, charting and scheduling activities and a wide range of practice- related duties as applied to animal health care, the biomedical field and the pet industry. The health occupational planned courses include the study of life sciences with emphasis on animal anatomy, physiology, diseases, reproduction, genetics, nutrition, animal laboratory procedures, aseptic technique, OSHA regulations, infection control and procedures. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives.

Welding (Program of Study)
CIP Code: 48.0508, 3 or more credits/year.

Grades 10-12

**Industry Certifications Available:** AWS Certification, SP/2 Welding Safety Pollution and Prevention, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

# **High School Administration**

Mr. Michael Routh, Principal
Dr. Anthony Popowitz, Assistant Principal 9-10
Mrs. Kelli Garlow, Assistant Principal 11-12

#### **High School Guidance Office**

Ms. Jillian Monti, School Counselor Grades 10-12 (A-Le) (412) 896-2346
Mr. Joseph McManus, School Counselor Grades 10-12 (Li-Z) (412) 896-2347
Ms. Crista Scalfari, School Counselor Grades 8-9 (412) 896-2334
Mrs. Natalie Scheiber, Guidance Secretary (412) 896-2352

1000 Weigles Hill Road Elizabeth, Pennsylvania 15037 Phone: (412) 896-2349 Fax: (412) 384-2030

#### **District Office Administration**

Mr. Keith Konyk, Superintendent
Dr. Mary Carole Perry, Assistant to the Superintendent
Dr. Randal Sydeski, Director of Pupil Assessments/Personnel Services
Mr. Al Ragan, Director of Finance and Operations
Mr. Matt Toth, Director of Information Technology
Mrs. Victoria Lojak, Director of Digital Teaching & Learning
Mr. Keith Gephart, Director of Special Education

401 Rock Run Road Elizabeth, Pennsylvania 15037 Phone: (412) 896-2300 Fax: (412) 751-9483

# **Board of School Directors**

Mr. Richard Borkowski
Mr. Richard Cummings Jr.
Mr. Jamie Evans
Mrs. Megan Ferraro
Mr. Ryan Hemminger
Mr. Scott Henry
Mr. Thomas Sharkey, Jr.
Mr. Travis Stoffer
Mrs. Dorothy Wycoff