ELIZABETH FORWARD HIGH SCHOOL



PROGRAM OF STUDIES 2024 - 2025

1000 Weigles Hill Road Elizabeth, PA 15037

www.efsd.net

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ELIZABETH FORWARD HIGH SCHOOL

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

Mr. Michael Routh, Principal

Dear Students and Parents:

Elizabeth Forward High School's administration and faculty have prepared the 2024 - 2025 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.

Mr. Michael Routh

Principal

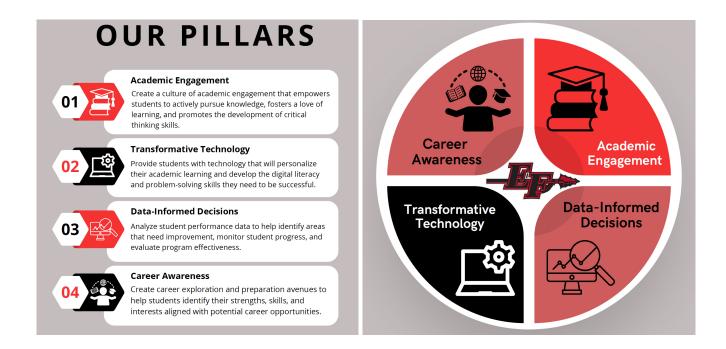
Elizabeth Forward School District

Our Mission Statement

The mission of the Elizabeth Forward School District is to empower students through technology, academics, and career awareness for success in a rapidly evolving world.

Our Vision Statement

The vision of the Elizabeth Forward School District is to provide students with rigorous and engaging instruction, innovative technology, and comprehensive career awareness to unlock their full potential and succeed academically, socially, and emotionally.



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.

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.)

English	4	Credits
Social Studies	4	Credits
Mathematics	4	Credits
Science	4	Credits
Electives	3	Credits
Arts or Humanities or both	3	Credits
Physical Education	1	Credit
Health	.50	Credit
Technology	.50	Credit
Web Technologies Game Coding 1 Ancient or Modern Game Design The ElizaBYTE Academy* Coding 1*	.50	Credit
Building Bridges to My Future	.50	Credit
Total Credits	25	Credits

*Retired course

	Definitions		
Core Subjects	English, Social Studies, Mathematics, and Science		
Fl 45	Additional agreement and the second and the standard district in the second and additional advantage and and the second and th		
Electives	Additional approved credit courses offered by the school district including vocational education courses		
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 Business, Computer, and Information Technology (BCIT), and Technology Education, including coursework in the Entertainment Technology Academy, excluding Esports.		

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 options are being offered as a support for all students who wish to improve their score.

Consistent with state education regulations, students may opt out of the Keystone Exam ONLY with a religious exemption. Contact the Guidance Department for more information.

Act 158 Pathway Graphic **Keystone Proficiency Pathway** Proficient or Advanced in Biology Proficient or Advanced in Literature Proficient or Advanced in Algebra I **Keystone Composite Pathway** At least 1 Keystone score is No score is Below Basic Proficient or Advanced CTE Concentrator, Alternative Assessment, and Evidence Based Pathways Satisfy additional requirements from ONE of the following... Meet local grade-based requirements for Keystone content in which student is less than Proficient Evidence · 3 Pieces of Evidence Career & Technical Education •1 Piece of Evidence •1 Piece of Evidence consistent w/student goals ONE or more from the first seven No more than TWO from the last five Attainment of 630 or better on any Industry-based competency Attainment of one alternative assessment score or better: ACT SAT Subject Test certification Attainment of Silver Level or better on ACT WorkKeys (21), ASVAB AFOT (31), Likelihood of industry-based PSAT/NMSQT (970), or SAT • Attainment of 3 or better on any AP Exam competency assessment (1010) success Attainment of Gold Level or Attainment of 3 or better on any Readiness for continued better on ACT WorkKeys engagement in Career and Attainment of 3 or better on AP Successful completion of concurrent or postsecond Technical Education (CTE) Exam(s) related to each Concentrator program of Keystone content area in which Industry-recognized credentialization less than Proficient study Acceptance into an other-than-4yr Institution of Higher Education (IHE) Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient for college-level coursework Attainment of Proficient or Successful completion of Advanced on any Keystone Exam concurrent course(s) related to Successful completion of a service-learning project each Keystone content area in which less than Proficient Letter guaranteeing full-time employment or military enlistment Successful completion of a pre-• Completion of an internship, externship, or cooperative education apprenticeship program of Higher Education (IHE) for college-level coursework Compliance with NCAA Division II

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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
		Incomplete
	M	Medical Excuse
	WF	Withdraw with Failing Grade
	FG	Failure due to Grading Policy

^{*}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.

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 (5th) 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:

	Regular Scale	Honors Scale	Advanced Scale
Grade	Quality Points	Quality Points	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	Quality Points	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." Children are required by law to attend school until the child reaches their 18th birthday.

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 9-12 A - H	(412) 896-2346	jmonti@efsd.net
Jennifer Hogan School Counselor	Grades 9-12 I - Q	(412) 896-2362	jhogan@efsdnet
Joseph McManus School Counselor	Grades 9-12 R - Z	(412) 896-2347	jmcmanus@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.
- 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.
- 2. 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.

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.

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.

Independent Study

This course allows juniors and seniors to identify a specific area of interest that meets one of three individual goals: academic advancement, career preparation, or community service. The Independent Study experience gives the self-motivated student the ability to pursue an area of personal interest beyond the confines of the classroom. Students must apply for Independent Study status as part of the course selection process. Students are advised that Independent Study requires strong personal initiative, long-range planning, and the willingness to develop and present the results of their study. See your School Counselor for details.

Support Services

Faculty:

Brett Anselmino TBD TB

Marc Bellora Katie Geis Larissa Leuenberger

James Coll Hillary Haberstock Myah Novak

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. **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. Jillian Monti, 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)	Ms. Sapp	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.

^{*}Refer to the complete PIAA Bylaws by visiting http://www.piaa.org/

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

Pre-Calculus Calculus

Honors Algebra 1 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

Physics 1 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 1		Honors Geometry	
Honors Algebra 2		•	
Biology/Honors Biology	1.00	Chemistry/Honors Chemistry	1.00
Foreign Language (1st year)	1.00	Foreign Language (2 nd year)	1.00
Building Bridges to My Future	0.50	Physical Education	0.50
Physical Education	0.50	Electives	1.50
Web Technologies/ Game Coding 1/ Ancient	0.50	Health	0.50
or Modern Game Design			
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	2.00	Probability and Statistics/AP Statistics	
Physics 1/Honors Physics/Honors Anatomy	1.00	AP Physics	1.00
& Physiology		AP Biology	
AP Biology		AP Chemistry	
AP Chemistry		Honors Anatomy & Physiology	
Foreign Language (3 rd or 4 th year)	1.00	Foreign Language (4 th or 5 th year)	1.00
Electives	2.50	Electives	2.50
Total Credits	7.50	Total Credits	7.50

Foreign Language Information

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, Game Coding 1, Game Coding 2, Game Coding 3, AP Computer Science Principles, and AP Computer Science A.

Total Credits

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/ 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
Web Technologies/ Game Coding 1/	0.50	Steel Center for Career and Technical	3.00
Ancient or Modern Game Design		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/ Physics I	1.00	Environmental Science/Medical Interv. Digital Electronics & Robotics	1.00
Steel Center for Career and Technical Education	3.00	Integrated Math for the Workforce Algebraic Concepts/Trigonometry Probability and Statistics	1.00
		Electives	0.50
		Steel Center for Career and Technical Education	3.00

Notes:

1. The Career & Technical curriculum is offered in cooperation with Steel Center for Career and Technical Education.

Total Credits

7.50

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.

7.00

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.



The RIASEC Model

The RIASEC model, based on John Holland's work in the 1950's, is the number one predictor for happiness in a career and breaks down career options into 6 personality traits; Realistic, Investigative, Artistic, Social, Enterprising, and Conventional. The RIASEC test was created to help individuals identify their preferred interests and facilitate job role selection. Each dimension reveals how you behave, respond and what you value. For example, the Social dimension refers to traits and tasks related to educating, helping, counseling, supporting, guiding, listening and behaviors such as being empathetic and caring. A person who has a higher preference for the Social dimension is more likely to enjoy a career in Social Services or Healthcare. Similarly, those with a high Artistic dimension may excel in creative or unconventional careers in humanities, the arts and music or art therapy that requires self-expression and intuitive abilities. Students will be exposed to this model in our required Building Bridges to My Future course in 9th grade. Please speak to your school counselor for more information about RIASEC and how it can help you choose your career path.



Course Recommendations

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

Career Cluster	Elective Courses	Sample Pathways
hitecture & 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) The iSH Co Technology Entrepreneurship Transportation Systems Warrior Bots 10, 11, & 12	Construction Design/Pre-Construction Maintenance/Operations

Career Cluster	Elective Courses	Sample Pathways
c Communications	3D Modeling Advanced Music Theory & Piano Advanced Studio Art 1 Advanced Studio Art 2 Brushstrokes and Beyond Basic Studio Art Beginning Painting Ceramics 1, 2, & 3 Chamber Music CHS Computer Science Website Design/Dev Game Coding 1, 2, & 3 Crafty Shack Creative Writing Digital Photography & Editing Elizabeth Forward Chorus Ancient or Modern Game Design Foundations of Drawing & Visual Arts Film Studies Foreign Language (French/Spanish) 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 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
iness Management & Administration	Academic Trigonometry/Pre-Calculus Accounting 1 & Accounting 2 Algebraic Concepts/Trigonometry AP Statistics CHS Computer Science Website Design/Dev Computer Keyboarding Economics Foreign Language (French/Spanish) AP Pre-Calculus Money Management and The Stock Market Probability and Statistics The iSH Co Technology Entrepreneurship	Administrative Support Business Information Management General Management Human Resources Management Operations Management

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

Career Cluster	Elective Courses	Sample Pathways
ance	Accounting 1 & Accounting 2 Economics Money Management and The Stock Market Sports Marketing & Entrepreneurship Warrior School of Law	Accounting Banking Services Business Finance Insurance 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
	Money Management and The Stock Market	Regulation
	Psychology	Revenue & Taxation
	Sociology	
	Warrior School of Law	

Career Cluster	Elective Courses	Sample Pathways
Career Cluster	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
ormation Technology	3D Modeling AP Computer Science A AP Computer Science Principles CHS CS-Web Site Design & Development CHS Web Design 2 Internship Game Coding 1, 2, & 3 Digital Electronics and Robotics (PLTW) Digital Photography & Editing Ancient or Modern Game Design Gaming Internship Esports T-Shirt TECH-niques Web Technologies 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
av. 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
a range	Construction and the Building Process	Assurance
Ranufacturing	Digital Electronics and Robotics (PLTW)	Logistics & Inventory Control
1 3 m	Drawing Building Design & Modeling (CADD)	Maintenance, Installation & Repair
340	Maker Lab	Manufacturing Production Process
	Manufacturing	Dev.
	Materials Processing 1 & 2	Production
	Sports Marketing & Entrepreneurship	Quality Assurance
	The iSH Co Technology Entrepreneurship	
	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 Storytelling The iSH Co Technology Entrepreneurship 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 CHS Computer Science Website Design/Dev Digital Electronics and Robotics (PLTW) Drawing Building Design & Modeling (CADD) Ancient or Modern Game Design 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			
Game Coding 1	9, 10, 11, 12	0.50	
Game Coding 2	9, 10, 11, 12	0.50	
Game 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	
Web Technologies	9	0.50	
Business			
Building Bridges to My Future	9	0.50	
Introduction to Cybersecurity	9, 10, 11, 12	0.50	
Sports Marketing and Entrepreneurship	9, 10, 11, 12	0.50	
Accounting 1	9, 10, 11, 12	0.50	
Accounting 2	10, 11, 12	0.50	
Money Management and The Stock Market	9, 10, 11, 12	0.50	
Warrior School of Law	9, 10, 11, 12	0.50	

<u>English</u>				
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	
Ancient Game Design	9, 10, 11, 12	0.50	
Modern Game Design	9, 10, 11, 12	0.50	
Storytelling	9, 10, 11, 12	0.50	
3D Modeling	9, 10, 11, 12	0.50	
Gaming Internship	10, 11, 12	0.50	
Unity 3D Programming	10,11,12	0.50	
Esports	10, 11, 12	0.50	

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 1	9	1.00	
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	0.50 or 1.00

<u>Remediation</u>			
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
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
Physics I	11	1.00
Honors Physics	11	1.00
Physics II	12	1.00
Environmental Science	11, 12	1.00
Medical Interventions	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

<u>Social Studies</u>		
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

Course Offerings

Technology Education			
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	
Partners in Tech Ed	10, 11, 12	0.50 or 1.00	

<u>Visual Arts</u>			
COURSE	GRADE	CREDITS	
Foundations of Drawing & Visual Arts	9, 10, 11, 12	0.50	
Basic Studio Art	10, 11, 12	1.00	
Partners in Art	10, 11, 12	0.50 or 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 or 1.00	
Crafty Shack	10, 11, 12	0.50	
Brushstrokes and Beyond	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	
Cosmetology	10, 11, 12	3.00	
Culinary Arts	10, 11, 12	3.00	
Cybersecurity and Networking Technology	10, 11, 12	3.00	
Electrical Construction	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	
Sports Medicine and Rehabilitation Professions	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 standard 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	Web Technologies, Game Coding 1, Game Coding 2 *retired course ElizaBYTE Academy
10th Grade Options	Game Coding 1, Game Coding 2, Game Coding 3, Unity 3D AP Computer Science Principles, CHS Web Design, Gaming Internship
11th Grade Options	Game Coding 1, Game Coding 2, Game Coding 3
	Unity 3D, Gaming Internship
12th Grade Options	AP Computer Science Principles, AP Computer Science A, CHS Web Design

COURSE TITLE	Game Coding 1	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Algebra 1 with a final	OPEN TO GRADE(S)	9,10,11,12
	grade of 80% or better. Successful completion of	One of the required	
	Math 8 with teacher recommendation.	9th-grade computer	
		science options	
DESCRIPTION	Do you want to make your very own video games and apps? Coding is the way to do that! Using a computer language called Python, you will create computer graphics, simple apps, and interactive games. In this class, you will learn the fundamental coding skills like if-statements and functions needed to make fully functioning video games. These are the same concepts used by actual Computer Scientists! This is a project-based class where you get to be creative and make your very own computer programs.		

COURSE TITLE	Game Coding 2	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Coding 1	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Want to be able to create games? In Game Coding 2, Coding 1 to make more advanced and interesting ginclude motion, loops, and lists. This will allow you t Pac-Man, and games of your very own creation! This i your time will be spent creating your programs.	games and apps. Topics that of make games like Flappy I	t you will cover Bird, Fruit Ninja,

COURSE TITLE	Game 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 Game Coding 1 and Game Coding 2, now you will		
	be able to use all that knowledge to make larger projects and work in new computing		
	environments. This project-based class will give you the opportunity to put your coding skills to		
	work by making fully functioning video games and apps, along with the chance to work with		
	Raspberry Pi and micro:bit computers to create so	me physical electronics. At	the end of the
	course, you will get many weeks to create a final codin	g project of your choice!	

COURSE TITLE	CHS CS-Web Site Design & Development	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of The ElizaBYTE Academy, 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 academic coursework and exams while in high school. Stude successful completion by enrolling in a College-In-Hig University of Pittsburgh at a reduced tuition rate. Topic Dreamweaver, JavaScript, Website layout and designalysis.	ents may elect to earn colle gh-School (CHS) course offer cs include HTML, Website ma	ge credit upon red through the aintenance with

COURSE TITLE	AP Computer Science Principles	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Algebra I with a final grade of 80% or better or successful completion of GameMaker Programming I with a final grade of 80% or better	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	AP Computer Science Principles introduces studen science. In this course, students will learn to design a science to solve problems through the developme incorporate abstraction into programs and use data to explain how computing innovations and computing sy their potential impacts, and contribute to a computing of	nd evaluate solutions and to ent of algorithms and progra discover new knowledge. St ystems, including the Interne	apply computer ams. They will tudents will also t, work, explore

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	e emphasizes object-oriente	d programming
	methodology, problem-solving, data structures, and	d algorithm development ι	using the Java
	programming language. Topics include effective programming language.	ogramming practices, Java	objects, writing
	classes, sort and search algorithms, and inheritance	. This course is recommend	led 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	to get there? The purpose of	f this course will
	focus on exploring your academic and future career a	spirations while guiding you	towards making
	the proper decisions for goal attainment. Students will work on developing necessary soft skills		
	such as communication, teamwork, enthusiasm, interviewing, and time management. Emphasis		
	will be placed on career planning, self-assessments, current job trends, decision-making, and		
	goal-setting. Students will study the five fastest-growing career clusters in the Pittsburgh region,		
	including healthcare, construction & trades, banking &	finance, information technology	ogy, and STEM.
	An online career tool will be used to personalize and do	ocument all career planning a	activities.

COURSE TITLE	Web Technologies	CREDIT VALUE	0.50
PREREQUISITE	None	One of the required	9
		9th-grade computer	
		science options	
DESCRIPTION	Web Technologies provides students with "a little bit other technology courses at the high school! In this fur to a variety of computer applications which can be lives. Students will complete several hands-on project creating a personal website using HTML/CSS, and creprogramming. Through these multimedia and compin-demand career skills such as digital literacy, creative	n and useful course, students applied in their future career its, which include designing a eating colorful graphic drawin uter science tasks, students	will be exposed rs and everyday n app prototype, gs using Python

COURSE TITLE	Introduction to Cybersecurity	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Introduction to Cybersecurity lays a groundwork for cybersecurity. This course will focus on technology protection, and network security. It will also have the and information through people, processes, and ted defended against; and the concepts used to secure in	basics such as risk assessm student explore various ways chnology; the types of attac	nent, information s we protect data ks that must be

COURSE TITLE	Sports Marketing and Entrepreneurship	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Learn about marketing through some of the greatest advertising campaigns ever! "Gotta Be the		
	Shoes Mike!". Nike used Michael Jordan's image to change the athletic shoe industry. The "Bo		
	Knows" campaign used the greatest 2-sport athlete	e ever to sell a new type of	shoe called the
	cross-trainer. This class examines the N.I.L., Name	Image Likeness, in college	athletics. It also
	shows how companies use sports to enhance and po	osition their brands. We will le	arn ticket pricing
	strategies, how a crisis might happen in sports, how to promote and market a sporting event, how		
	to develop sponsorships, and how to use social media to grow your team's follower base. You can't		
	watch any sporting event without seeing "Sports Marketing" all around. This course also places an		
	emphasis on entrepreneurship and bases many of the lessons from the perspective of you being an owner of your own business. If you like sports and are interested in business you'll enjoy this		
	class.		

COURSE TITLE	Money Management and The Stock Market	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	Becoming "Rich" or "Wealthy" in your life isn't necessarily about how much money you make. It's		
	more about how well you manage and invest your m		
	money such as Checking accounts, banking service	es, and budgeting. It will teacl	h you about the
	dangers of credit cards, the fundamentals of buying		
	retirement planning. Everyone, no matter how wealth	hy, will have some money in th	ne stock market.
	Therefore a large part of the class will be devoted to understanding the stock market and how to		
	invest for the long term. We will play an online stock market game against students from around		
	the state of PA. Other important topics we cover will be types of insurance, understanding student		
	loans and paying for college, financing a new car and the many different taxes that we pay. This is		
	a "must have" class before you graduate! Everything	g in this class will be used in	your immediate
	future.		

COURSE TITLE	Accounting 1	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This course provides a basic understanding of the price developing a better comprehension of business economic business. Students will be able to complete the accooral proprietorship. They will also be able to complete terminology related to payroll and income taxes. The highly recommended for students planning to marketing, or Accounting.	nomic terms and conditions a bunting cycle for a service buse tee a basic tax return as to e course provides a strong for	s they apply to a siness formed as 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 finantion of a merchandise business,	cial statements.

COURSE TITLE	Warrior School of Law	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 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, ElizaBYTE Academy or		
	GameMaker Programming 1		
DESCRIPTION	In this course, students will build on web design conce the unique opportunity to create a website for a look intermediate computer science topics such as HT learning the dynamics of consulting business. Stude successful completion by enrolling in a College In Hi University of Pittsburgh at a reduced tuition rate.	ocal business. Students will ML/CSS, Javascript, PHP, ents may elect to earn colle	be exposed to and SQL while ege credit upon

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 incluthemselves, build independent study habits, budget the and/or opinions. When responding in writing to varie encouraged to establish a clear focus, exhibit clarity grammar rules, and maintain coherent organization work 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 i 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 modes correlated with the study of the s	eterization, and, ajor part of the fliterature and led to enhance leas in both oral ent study habits, less, 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 write analytical thinking skills through oral and written expression MLA style will be discussed, presented, and required course. (Practice in mastering writing styles and reading also be incorporated.)	d analyze ideas, organize the tten forms. Students will deve ression related to the readings I for all writings within the vari	eir thinking, and elop critical and is for the course. ous 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 summer reading assignment is required.	e. This course requires critical nalysis, and composition reflect d through group discussions er analyzing an independently y of literature, as the course is	al discriminatory cting a variety of and brief oral y read novel is s organized into

COURSE TITLE	English 11	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11
DESCRIPTION	In this course students will study American Literature with a sequential development of composition		
	skills. The course covers poetry, the short story, the essay, and novels. The material ranges from		
	the Puritan Period through the beginnings of Realism and Naturalism and the Modern Period.		
	Students will be introduced to contemporary literature, which reflects the current attitudes, mores,		
	and philosophies relevant to society today. A comp	osition strand will generate fu	Illy documented
	themes, which require research for completion.		

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	matic 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 collegiate level and replicates a freshman college composition course. Organized in thematic units, the course will focus on fiction and non-fiction written by American writers. Students will hone their analytical writing and critical reading skills as they study language through a rhetorical lens. Students will utilize their advanced communication skills as they speak and write in multiple modes. A summer reading assignment is also required.		
	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 Exan year's end, which is highly recommended.		Examination at

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 emough analytical and reflectives, oral readings and interpress.	iscover history's ng an extensive nined. Reading, phasis on the re 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 % Successful completion of English 11 with a final grade of 90% or better	OPEN TO GRADE(S)	12
DESCRIPTION	This college preparatory course is designed for students who have demonstrated advanced skills in reading and writing and requires them to work at an accelerated pace. Honors English 12 takes both a thematic and sequential approach to the exploration of British Literature and the development of the English Language. Students will explore the development of the English Language through critical reading, writing, and analysis of novels, epic poetry, poetry, and drama. Students are encouraged to compare their interpretations of literary works with those of their classmates and literary critics in writing, classroom discussion, and oral presentations. This course continues the rigor established in previous Honors/AP English classes. A summer reading assignment is required.		

COURSE TITLE	AP English 12 Literature and Composition	CREDIT VALUE	1.00
PREREQUISITE	Successful completion of Honors English 11	OPEN TO GRADE(S)	12
	with a final grade of 90% or better or AP		
	English 11 with a final grade of 80% or better		
DESCRIPTION	This course requires students to work at the college	•	•
	course. Critical reading and analysis of literature are stressed with emphasis placed on language,		
	characterization, situation, and themes. Individual		· ·
	meaning, value, and significance to contemporary ex		
	were written. Students are involved in correlating	•	
	supplementary readings. They are encouraged to c	•	•
	those of their classmates and of literary critics. This		'
	writing, which emphasizes concise and effective use		· ·
	and objectivity. A.P. English attempts to teach students how to read works of literature and how to		
	express themselves about those works.		
	A summer reading assignment is required.		
	This may also be offered as a College in L	ligh School (CUS) course	in offiliation
	This may also be offered as a College-in-h		in anniauon
	with a local college/university for optional co	mege creait.	
	This course provides the proper background for taken	king the Advanced Placement	Examination at
	year's end, which is highly recommended.	ang the havaneed hadement	Examination at

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 to write creatively, but also their writing skills		
	in general. Students will establish their own writer's toolbox that will encompass a deep exploration		
	in the use of senses, emotions, life experiences, and a variety of literary devices. This writer's		
	toolbox will become the foundation in which to draw when developing short stories and poems.		
	The elements of a story, its shape and editing, an	d the overall potential for pu	ublishing of an
	original work will be the focus of the course throughou	it the semester.	

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 a delivering speeches to entertain, inform, and per discussed during the persuasive speech unit. To students will provide brief critiques of speeches give course provides an opportunity to expand basic skills	ognize and understand the base nd researching speech topics rsuade. Basic propaganda t encourage and strengthen en by fellow classmates. A t	sic principles of s, outlining, and echniques are listening skills, final 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 mythologies, specifically in the common structure Discussions may also cover Norse and Egyptian my myths of various cultures, students can value the philosophical minds as well as appreciate man's relationship to it. Studies will also investigate how influence today's society in a variety of media such as	es of gods, stories, motifs yths, among others. By stud he written drama by ancie attempt to explain the un y classical aspects of world	, and themes. ying the classic nt and famous iverse and his

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 focus	ude set design, painting, pro look into special effects. Pa es and scenes. Musical critiq	op preparation, articipants learn

English

COURSE TITLE	Film Studies	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	In this semester course, students will be exploring the silent movie era, through the development of sound, famous auteurs, and the factors that led to the curr films serve as the most significant touchstones in 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 wrighted demonstrate skills in cultural, technological, and media	the rise of the studio system, rent blockbuster era. Becaus the understanding of culture, a students well in the real worked each film, the economic face viewer on a fundamental leviting about film, students w	the evolution of e contemporary character, and dd. Students will actors that drive vel. Additionally,

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 seamonth of the reading is college-level manufactured.	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

Tom Glass

Philosophy:

The Entertainment Technology Academy's overall goal is to foster skills needed in high-tech global industries that require the creative use of design processes and tools to develop modern entertainment. The program combines science, technology, engineering, and math, with the arts (S.T.E.A.M.) to give students the opportunity to practice skills needed in digital entertainment fields.

The Elizabeth Forward School District has partnered with Carnegie Learning to provide a program for students to explore future career possibilities in game design, digital art, and storytelling. Students start with either the Ancient Game Design or Modern Game Design (*Evolution of Games *retired*) prerequisite course and then choose one or more tracks to continue in the program. The tracks include programming, storytelling, and digital art.

COURSE TITLE	Ancient Game Design	CREDIT VALUE	0.50
PREREQUISITE	None	One of the required 9th-grade computer science options	9, 10, 11, 12
DESCRIPTION	Students will examine the ancient history of games invented prior to the printing press. Students will analyze how those games reflected the social, political, economic, and religious framework of ancient cultures. Students will examine the mechanics, art, and narratives of ancient games to mod, prototype, playtest, and iterate games of their own just as today's professional game designers incorporate dynamics used in games throughout the ages. Students will use professional game design processes to build and playtest their own original design ideas.		

COURSE TITLE	Modern Game Design	CREDIT VALUE	0.50	
PREREQUISITE	None	One of the required	9, 10, 11, 12	
		9th-grade computer		
		science options		
DESCRIPTION	will analyze how those games reflect the social, modern cultures. Students will examine the mech mod, prototype, playtest, and iterate games of designers incorporate dynamics used in gam	political, economic, and religiou nanics, art, and narratives of mo their own just as today's prof es throughout the ages. Stu	Students will examine the modern history of games invented after the printing press. Students will analyze how those games reflect the social, political, economic, and religious framework of modern cultures. Students will examine the mechanics, art, and narratives of modern games to mod, prototype, playtest, and iterate games of their own just as today's professional game designers incorporate dynamics used in games throughout the ages. Students will use professional game design processes to build and playtest their own original design ideas.	

COURSE TITLE	Storytelling	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Evolution of	OPEN TO GRADE(S)	9, 10, 11, 12
	Games OR Ancient Game Design or Modern		
	Game Design		
DESCRIPTION	What makes a story great? How do you craft your own stories and become a great storyteller? Telling almost any story involves words, characters, and structure but digital storytelling uses visual language, sound, and art. Storytelling is something we all do naturally, but there's a difference between good storytelling and great storytelling. Digital storytelling is the modern extension of the ancient art of storytelling using new types of technology. This course will help you understand, critique, and create dramatic stories for modern media including movies, games, television, and more.		orytelling uses by, but there's a is the modern course will help

Entertainment Technology Academy

COURSE TITLE	3D Modeling	CREDIT VALUE	0.50 or 1.00
PREREQUISITE	Successful completion of Evolution of	OPEN TO GRADE(S)	9, 10, 11, 12
	Games OR Ancient Game Design or Modern		
	Game Design		
DESCRIPTION	Learn the 3D modeling techniques used in mo- commercials, and animation! Using 3Ds Max, yo manipulate and sculpt pure imagination into sub- will have developed a portfolio of original proje- internship, higher education, or job. Students will ideas come to life.	u will work in this highly skill-ba ostantial forms. By the end of tl ects that you can use when a	nsed art form to the course, you applying for an

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 OR Ancient Game Design or Modern Game Design 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 community. Students will work interdependently skills with digital and/or non-digital game design Students will have the opportunity to work with products. Projects will be determined and agreed student team.	on teams grouped according n, digital and non-digital art, a a real-world client when ava	g to individuals' and storytelling. ilable to create

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 interface executable games that can be played on many played o	industry standard developme ce and JavaScript and will c	ent engine as reate two fully

COURSE TITLE	Esports	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Esports, or organized and competitive gaming, is a fast-growing industry! This course will		his course will
	immerse students in the Esports industry by	1) playing, strategizing, and a	nalyzing video
	games, 2) researching how competitions are or	ganized and run at the profess	sional level, 3)
	learning about the sport and the history of gaming, and 4) creating content to contribute to the		
	video game community. Whatever type of "gamer" you are, our Esports class can help build a		
	sense of belonging, promote collaboration and communication skills, and foster good		
	sportsmanship, while also creating a pipeline for	future STEM careers and furth	ering students'
	strategic thinking and problem-solving abilities.		

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 to found within the kitchen. Students will participate strengthen their understanding of the current topics co	erminology and unit measurem in a lab approximately eve	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 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 partic derstanding of the current top te 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 co	overed in class.	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, characteristic standards, safety concerns, and abuse and neglect. It in careers that involve working with children and suparents.	nental growth during that imperent responsible mature adults be the mother's health and would birth, and children's issues of the course is important to study	ortant first year. efore parenting ell-being during such as health dents interested

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 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 cultof 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 ir 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 skills 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	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.		

COURSE TITLE	Honors French 5 Independent Study	CREDIT VALUE	1.00
PREREQUISITE	(1) Students must have completed Honors	OPEN TO GRADE(S)	12
	French 4 with an 80% or better.		
	(2) G.P.A. of 3.5 in the discipline for levels 1-4		
	and G.P.A. of 3.0 overall		
DESCRIPTION	This course is recommended for individual students met the requirements to be in a level 5 language of in language learning and be self-driven, independent lower-level course where they will work independent on advanced grammatical and/or cultural topic project-based learning with online components. Tinterests.	ourse. Students must have a g learners. Student(s) may be in tly with guidance from the clases. This course will be ce	genuine interest of the state o

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 and throughout the course. Spanish 1 students be listening skills in the Spanish language. Spanish 1 language, as well as weekly assignments that must participation is an integral part of language learning foreign language plan to attend college.	e first day of class. Spanish I storsonal information, discussing stoductory 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

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 a 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 assignated classroom. Class participation is an integral part students who take a foreign language plan to attend of	zing vocabulary and grammatifamiliar with the real-world con a restaurant, getting around to a party, and talking about sporse. Spanish 2 students shout ments that must be completed of language learning and is a	ical knowledge inections to the wn, completing orts and health. Id 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 roll Class 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. co 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 grammar structures and discussion topics. Student and respond to questions about themselves and other food in a restaurant, make movies, write invitations, versamily and relationships. Cultural connections are maked is 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-Hewith a local college/university for optional college/university for optional college/university.	s are able to use several tensing. Students will talk about foorwrite an article for a newspape ade throughout the course. Clad. Spanish 4 is of great value tigh-School (CHS) course	ses as they ask d/recipes, order r and talk about ass participation to students who

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

Health / Physical Education / Aquatics

Faculty:

David Byers Matthew Flaus Victoria Pomilio

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. Students will engage in various physical fitness activities to help them develop and maintain healthy lifelong fitness habits. Coursework emphasizes individual and group skill development, team play, leisure sports participation, and an understanding of the need for lifetime fitness. Students will also participate in a unit to learn basic swimming and safety techniques.		
	*In addition to this course, students will be required Physical Education Elective to fulfill graduation required		and ANOTHER

COURSE TITLE	Health	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	10
DESCRIPTION	This course is required of all tenth-grade stude human health and development: physical, emotional three areas are examined through the study of such that abuse, mental health, and related areas. The coursystems of the body, first aid, and safety.	II, and social. The interrelatio opics as nutrition, physical fitne	nships 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 lime make them reasonably safe in and around water. Stathrough a series of skills designated by the Red backstroke, diving, and water safety. Lap swimming a individual needs and with the instructor's guidance.	tudents enrolled in this PE ele Cross. Skills include: freest	ective will move yle, elementary

COURSE TITLE	Personal Fitness and Games	CREDIT VALUE		
PREREQUISITE	None	OPEN TO GRADE(S)		
DESCRIPTION	The purpose of this course is to motivate students emphasis on improving health-related and skill-redesigned for less competitive students that still enjayers on all 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, basketbal softball, team building, and many other ultimate-ty exposed to fitness assessment technology such as host-fitness testing will be administered in this class.	to achieve lifetime personal elated fitness components. by high-energy games and fit sign, circuit training, core works class will also need to be ab etting. Students in this class will, badminton, pickleball, flag fipe fitness games. All students	This course is tness activities. outs, yoga, and le to participate vill 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 and skills to save lives in the event of an emergency. Course components include: CPR, and basic First Aid and Rescue Techniques. Students who pass course requirements will have the opportunity to become an American Red Cross-certified lifeguard. Participants will pay a fee of \$50 for materials provided by the Red Cross and to process certification. Students will also be provided individual instruction on the four competitive swimming strokes and various advanced skills and techniques. Lap swimming will be included as part of the fitness component in the course to prepare students for the 300-yard swim endurance test for Lifeguard certification.			

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 wide 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 tivity. 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 succes	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 focution connection 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	Neight Training and Conditioning CREDIT VALUE			
PREREQUISITE	None	OPEN TO GRADE(S)			
DESCRIPTION	Beginner, Intermediate, and Advanced strength and	d fitness training programs wi	ill be offered to		
	students, based on the student experience. This can	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	. •	· ·		
	strength, speed, power, flexibility, and mobility. Stude	• •	•		
	to maintain a healthy weight and how to eat and hydr		•		
	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 w	ill be responsible for recordin	g daily workout		
	data using an online training system or workout chart	•			
	be exposed to fitness assessment technology such	as heart rate monitors and p	edometers. Pre		
	and post-fitness testing will be administered in class.				

Mathematics

Faculty:

Sean BrowneLawrence FeickJustin KoronaSara CopeChristy GalileiKameron SmithJanet DykstraDiane 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

GRADE	TRADITIONAL	TRADITIONAL	ACADEMIC	ACADEMIC	HONORS	HONORS	HONORS	HONORS
	Direct							
8	Instruction	Math 8	Math 8	Math 8	Math 8	Math 8	Algebra 1	Algebra 1
								Honors
								Algebra II
								AND
	Direct		Academic	Academic	Honors	Honors	Honors	Honors
9	Instruction	Algebra I	Algebra I	Algebra I	Algebra I	Algebra I	Algebra II	Geometry
				Academic		Honors		AP
				Algebra II		Algebra II		Pre-Calculus
				AND		AND		(AP Stats
			Academic	Academic	Honors	Honors	Honors	can be taken
10	Algebra I	Algebra II	Algebra II	Geometry	Algebra II	Geometry	Geometry	concurrently)
						AP		
						Pre-Calculus	AP	AP
						OR	Pre-Calculus	Calculus AB
				Academic		Academic	(AP Stats	(AP Stats
			Academic	Trig &	Honors	Trig &	can be taken	can be taken
11	Algebra II	Geometry	Geometry	Pre-Calculus	Geometry	Pre-Calculus	concurrently)	concurrently)
		Algebraic						
		Concepts					AP	
		& Trig	Academic	Calculus	AP	AP	Calclus AB	
		OR	Trig &	OR	Pre-Calculus	Calclus AB	(AP Stats	AP
		Integrated	Pre-Calculus	AP Stats	OR	OR	can be taken	Calculus BC
	Integrated	Math	OR	OR	Academic	Calculus	concurrently)	(AP Stats
	Math for the	for the	Probability	Probability &	Trig &	OR	OR	can be taken
12	Workforce	Workforce	& Statistics	Statistics	Pre-Calculus	AP Stats	AP Stats	concurrently)

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 proportic Students will graph equations and inequalities and structure 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	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 Algebrating. 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	Honors Alg	ors Algebra 1			CREDIT VALUE		
PREREQUISITE	Completion	of Math 8 with a	score of 12 or	OPEN TO (GRADE(S)	9	
	higher usin	higher using the Criteria Matrix (see below)					
DESCRIPTION	Honors Alg	ebra 1 is design	ed for students	who wish to con	tinue the study	of high school	
	mathematic	s through Academ	ic Trigonometry/P	re-Calculus with th	ne added opportu	nity to continue	
	in advanced	mathematics cour	ses. This course v	vill cover algebra 1	I with increased ri	gor. The scope	
	and sequen	ce include patterns	s, variables, expre	essions, equations	, and graphing. Tl	he students will	
	add, subtrac	t, multiply, and div	ide real numbers,	variables, and exp	ressions. The stu	dents will learn	
	_	aph, and analyze	•	•		•	
		ing skills will be de	•		, ,	ebra Standards	
		s will take the Alge	bra Keystone exa	m at the end of the	school year.		
	Criteria Mat	trix:					
		Grade 7 Math PSSA	Grade 8 Math PSSA	NWEA Spring 8th	8th Grade Yearly Mar	th	
				Grade Math Percentile	Average		
		Advanced (4 Points)	Advanced (4 Points)	80% or Higher (4	Letter Grade A (4 poin	its)	
		` ′	` ´	Points)	` *		
		Proficient (3 Points)	Proficient (3 Points)	60% - 74% (3 Points)	Letter Grade B (3 poin	ts)	
		Basic (2 points)	Basic (2 points)	50% - 59% (2 Points)	Letter Grade C (2 poin	ts)	
	Below Basic (1 points) Below Basic (1 points) 25% - 49% (1 Points) Letter Grade D (1 points)						
	♦ Students that receive a score of 12 or higher – Honors Algebra 1 placement						
		♦ Students that rece	eive a score of 7 to 11 – A	cademic Algebra 1			
			eive a score of 6 or lower -				
		Appeals Process for Honors Algebra 1 only: If a student does not meet a score of 12 or					
		higher, they will have	the opportunity to take the	ne McGraw-Hill Algebra 1	Placement Test. If		
		their score meets the Honors Algebra 1 in 9	requirement of 24 points of	or greater, they will have t	he prospect to enter		
		Honors Argeora IIII s	grade.				

Mathematics

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 further 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 Honors Algebra I (HS) with a final grade of 80% 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.		Solving Higher

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 lent triangles, special propertion	les, 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 wis mathematics through Academic Trigonometry/Pre-C geometry, angles, reasoning and proofs, perpendic special properties of triangles, quadrilaterals, similar area of polygons and circles, perimeter and area of pl	Calculus. Topics covered are cular and parallel lines, congrarity, right triangles and trigond	e essentials of uent triangles, ometry, circles,

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 continue in the study of advanced mathematics. Postulates, theorems, definitions, and proofs are a vital part of this course which includes the language and logic of geometry, parallelism and quadrilaterals, congruent triangles and similar polygons, inequalities in triangles, right triangles, circles, area of polygons and circles, areas and volumes of solids and coordinate geometry. Note: A TI-84+ graphing calculator is highly recommended.		

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 will 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 as composite functions, rational and radical functions, quadratic equations and inequalities. Trigonometry is then explained and triangles are solved using the Laws of Sines and Cosines. Trigonometric functions and their inverses are studied and graphed. Students will learn and apply trig identities to solve trig equations, and exponential and logarithmic equations will be solved.		

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 completion of Academic Geometry with a final grade of 90% or better. *It is highly recommended that you score Advanced or Proficient on the Keystone Math before taking this course.	OPEN TO GRADE(S)	11, 12
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 is also offered as a College-in-High-School college/university 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 calcust (CHS) course in affiliation	d Logarithmic sidelines in the paration of the plator is highly with a local

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 data, become more statistically literate,		
	demonstrate statistical hypothesis testing, and work with raw data to summarize data. This course		
	may not be taken after successful completion of or concurrently with AP Statistics.		

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	try 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 broad conceptual themes: exploring data and observing patterns and departures from patterns, planning a study and deciding what and how to measure, anticipating patterns and producing models using probability theory and simulation, statistical inferences and confirming models. Students will be instructed in a variety of topics ranging amongst these four conceptual themes. This course follows the strict guidelines in the College Board Publication of the Advanced Placement Course Description for preparation of the AP Statistics Advanced Placement examination. Note: A TI-84+ graphing calculator is highly recommended. This is also 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.		

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 a university and can qualify a student for college credit of Plane analytic geometry and solid analytic geometry with differential and integral calculus. In addition calculus, the mean value theorem, the fundamental of and ordinary and uniform continuity are emphasized calculus are also studied. This course follows the strict of the Advanced Placement Course Description for performent examination. Note: A TI-84+ graphing calculus is also offered as a College-in-High-School 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, the of differential eard Publication AB Advanced the order of the order and with a local

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, cont		•
	covered in AP Calculus AB. The major new topics		· ·
	polar and vector functions; slope fields, Euler's m	· · · · · · · · · · · · · · · · · · ·	
	Logistic differential equations; Polynomial approxima		
	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.		
	Note. A 11-041 graphing calculator is mighty recommended.		
	This is also offered as a College-in-High-School (CHS) course in affiliation with a local		
	college/university for optional college credit.		
	anagominioni juni aprioni anago anami		
	This course provides the proper background for taki	ng the Advanced Placement E	xamination at
	year's end, which is highly recommended.		

Music

Faculty:

Angela Milliren Chris Thomas

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 understand 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 evalua nine-week period. Concerts occur throughout the year	emphasized through individua tions will occur periodically tl	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 th 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 students interested in continuing with the band program in high school. The objective of this band class is to provide additional, more focused instruction to the freshmen of the Elizabeth Forward band program. The band will reinforce musical knowledge through a wide range of musical styles and composers by studying a variety of classical		
	band works, marches, and popular music. The 9 th Grade Band will perform multiple concerts throughout the school year in addition to the Commencement Ceremony. Other festivals and community performances may be added from year to year at the discretion of the 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 stude	ents in grades 10 through 12	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 through a wide range of musical styles and		
	composers by studying a variety of classical band works, marches, and popular music. The		
	Symphonic Band typically performs multiple co	oncerts a year and at Gr	aduation and
	Commencement ceremonies. Other festivals and co	ommunity performances may b	oe added from
	year to year at the discretion of the director.		

COURSE TITLE	Partners in Music	CREDIT VALUE	0.50 or 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	Il 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, included, as it is an essential part on for the Latin Ensemble that into not 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. Each student will be require e entire year. The students wil 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.	join this course. The objective	of this course ance of music

COURSE TITLE	Chamber Music	CREDIT VALUE	1.00
PREREQUISITE	Current enrollment in EFHS performing ensemble	OPEN TO GRADE(S)	10, 11, 12
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.		r 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 achieved During this semester course, the students will improve cover Operations and Linear Equations and Inequality Data Organizations.	ove their skills in both modules	s. Module I will

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	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 eight 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 goal of this course is to have students development of the comprehension. Instruction will be differentiated to instructional software and high-interest fiction/nonfict reading skills, vocabulary, writing, and grammar w groups, independently, and one-on-one with the teach than one year.	op better reading strategies address a student's individua ion materials. Systematic direc vill be included. Students will	and improve I needs using t instruction in work in small

Science

Faculty:

Sean BrowneVicki JacksonGreg MartzFrank ChampNolan LarryMalena MazurekMichael DayTBD ChemistryAmanda 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

*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) with a final grade of 80% or better	OPEN TO GRADE(S)	9
DESCRIPTION	Honors Biology is a weighted course designed to reflective of the state standards and anchors used state-mandated Keystone Biology exam is administer or advanced score. Module A: Cells and Cell Processes 1. Basic Biological Principles: characteristics of I 2. Chemistry of Life: basic bonding, properties of 3. Cellular Energetics: photosynthesis and cellul 4. Homeostasis and Transportation: passive and Module B: Continuity and Unity of Life 1. Cell Reproduction: mitosis and meiosis 2. Genetics: inheritance of traits using genetics in 3. Evolution: creation of Earth, change in organis 4. Ecology: food chains and webs, energy transfithis class meets 6 periods per week.	to create the Keystone Biologed in May and students must entire life, levels of organization, cellular respiration and active transport, cell membra problems, protein synthesis sms over time	ogy Exam. The earn a proficient ular organelles nzymes ne structure.

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 properalso be introduced to writing and balancing chemical equations. The course will be based on skills. Students will be involved in inquiry-based learning this class meets 5 periods per week.	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	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	hemistry introduces the students to the composition, structure, properties, and behavior of matter, swell as the changes it undergoes during chemical reactions. These topics are covered through ctures, group work, laboratories, inquiry-based activities, and projects. Heavy emphasis is aced on logical thinking and problem-solving skills. Chemistry is a quantitative science, so udents taking this course need to have a strong background in mathematics, specifically basic ath and algebra, and have a scientific calculator. his class meets 6 periods per week.		overed through yy emphasis is ve science, so

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.		

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 the strips, alarm systems with ke tudents will also work collabor system and assist with the emb	electronics, or nd are exposed programmable ng an Arduino yless entry and atively 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	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	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	grade of 80% or better. 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.		r main areas of and electricity mmon physical of the cosmos.

Science

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; Renew Integrated Pest Management; Environmental Healt Endangered, and Extinct Species. This course will problem solvers in real issues that affect them, their in Students will be provided an introduction to the learning experiences in the Freight Farm.	between humans and the worker results of human decision introduced to topics such as Eable and Nonrenewable Sourch; Laws and Regulations; ar allow students to be active pomes, schools, and community	rld in which we so are the main cosystems and tes; Agriculture; and Threatened, participants and ties.

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 85% or better		
DESCRIPTION	Advanced Placement Biology is a college-level cours	se available to juniors and seni	ors who qualify
	as per the criteria stated above. The AP Biology cou		•
	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	g are equally important in AP	Biology, each
	learning objective combines content with inquiry ar	nd reasoning skills described	in the science
	practices.	logy are organized around f	our underlying
	The key concepts and related content of AP Bio principles called the big ideas, which encompass t		
	processes governing living organisms and biologic		
	activities for each big idea. There is a summer assi	•	•
	class.		
	Big Idea 1: Evolution		
	The process of evolution drives the diversity and unity	of life.	
	Big Idea 2: Cellular Processes: Energy and Communi		
	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 t	to information essential to life	
	processes.		
	Big Idea 4: Interactions	ata tatana attana	
	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	Examination at

COURSE TITLE	AP Chemistry	CREDIT VALUE	1.00
PREREQUISITE	 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 An overall G.P.A. of 3.0 or better 	OPEN TO GRADE(S)	11, 12
DESCRIPTION	college-level course available to juniors and seniors. The course is structured around the big ideas deferamework 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	nistry course is designed to be the equivalent of a first-year juniors and seniors who qualify as per the criteria listed above. In the big ideas described in the AP Chemistry Curriculum that the students have a strong background in the foundational eir first-year chemistry course. This class meets seven periods a described and two double-period sessions. A calculator, lab sees are necessary for this course. AP Chemistry differs emistry course with respect to the topics covered, the emphasis the conceptual and mathematical formulations of principles. The number of topics covered, the time spent on the course by an and the nature and variety of laboratory experiments. There is	
	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

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 course criteria listed above. It is assumed that prospective Advanced Algebra and Trigonometry to manage the These aspects include solving word problems, data a general understanding of variable relationships. Promust. Calculus will be introduced in the theoretic quantities of motion, work, the law of gravity, and the The goals for percentage of coverage in two general (60 percent), Electricity and Magnetism (40 percent). This may also be offered as a College-in-High-Sclegeluniversity for optional college credit. This course provides the proper background for tak year's end, which is highly recommended.	students will possess the necestary rigorous quantitative aspects and graphical analysis, vector applied solving and critical-think and development of some connection and areas are as follows: Newton the laws governing electricity and areas are as follows: Newton the laws governing electricity and areas are as follows: Newton the laws governing electricity and the	essary skills in of the course. analysis, and a ing skills are a cepts such as nd magnetism. iian Mechanics

COURSE TITLE	Medical Interventions	CREDIT VALUE	1.00
PREREQUISITE	None	OPEN TO GRADE(S)	11, 12
DESCRIPTION	Medical Interventions (MI) allows students to investig prevention, diagnosis, and treatment of disease. A "Hand homeostasis in the body, the course will explor screen and evaluate the code in our DNA, how to preprevail when the organs of the body begin to fail. Through these scenarios students will be exposed to immunology, surgery, genetics, pharmacology, medic scenario will introduce multiple types of interventions of treatment of complex diseases and disorders. These studies and will provide a look at the past, present choices and preventive measures are emphasized that role that scientific thinking and engineering design planture. Course Objectives: Students will learn about the prevention planture of biomedical profes diagnose and treat your patients. Investigate the medical intervention brainstorm the innovations of the future of students will practice problem solving open-ended projects and problems documentation, communication, and communication.	ate the variety of interventions how-To" manual for maintaining how to prevent and fight in event, diagnose, and treat can to the wide range of intervential devices, and diagnostics. Es, reinforce concepts learned may range from simple diaginterventions will be showcased, and future of biomedical so aroughout the course as well as ay in the development of interventions, and treatment of interventions to analyze case in the soft the past and present reads that require them to development to development.	s involved in the g overall health afection, how to cer, and how to tions related to each case study in the previous mostic tests to ed through case sience. Lifestyle as the important rventions of the of disease. Information and and begin to and progress to

Faculty:

Paul Callaghan Brandon Gerba

Steve DeFelices Brian Madar

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

Robert Raffaele

- 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 oth meaning of history in its relevance to the history of the	cultural, religious, and econom 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 th	e post-Civil War period to the	e 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 student an understanding and appreciation of		
	different people and their culture in order that he/she might more effectively understand today's world. A "weltanschauung" (world view) approach will be taken in this course, Units will include		
	social institutions, the world's great religions, government and economics systems found today,		
	artistic expression, and the major issues facing the mo	odern world.	

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 tak	dents will study the Constitutes. Units of instruction will incomplete finformation. 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 economunits. Units include Wants & Needs, Supply & Dema Structures. Also included in the unit will be a compa the modern world: the Market, Traditional, and Commsystem with emphasis on how wants lead to product and the roles of the four factors of production: land, la	and, Pricing, Business Structur irison of the three economic sy and. Unit Two will concentrate ion, the influences on prices ir	es, and Market stems found in e on the market our economy,

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 be ociety. Students will be able em and analyze these in an 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	arning 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 m at conclusions, AP U.S. History shows "why" or "ho circumstances. 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-Hi with a local college/university for optional co This course provides the proper background for taking year's end, which is highly recommended.	an as memory is to the individual problem and ther historical problem and ther as they did. The text, in this discussions, lectures, essays e course makes demands ourse. A summer assignment ment during the senior year of the senior (CHS) course lege credit.	dual. In arriving this in particular in eliminate the case, must be a si, debates, and in the students it is required.

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		

COURSE TITLE	AP World 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	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 10th 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 developed in the AP Seminar course in order to		
	produce research projects in multiple subject areas.	When researching, students	will develop a
	research question that will serve as a guide for writin	g collegiate-level academic pa	pers. Students
	will use the QUEST framework established by the Col	•	
	interests. Students will learn how to do ethical rese	arch and synthesize multiple s	secondary and
	primary sources when writing scholarly papers. APA	•	•
	research-based compositions and projects that incorporate multiple sources, both primary and		
	secondary, and will present their findings in an oral defense. As per the requirements of the		
	College Board, the course will culminate in one large	e research project on a topic o	f the student's
	choice with written components, an oral defense, and		or exhibits as
	appropriate for their topics. This does not substitute for	or an English Credit.	
	A summer reading is required.		

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 30 hours of classwork is required for the successful man-made and natural laws, physical and psychologoper care and maintenance of a vehicle, and proper a skillful, knowledgeable, courteous, and safety-consifrom 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 state of Pennsylvania.	I completion of this course. Togical traits, legal rights and representation of the description of the descr	Topics include: esponsibilities, evelopment of lude speakers r changes. In essed 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	Study Skills is a course designed to enhance studies academic success in high school. The course will us of skills which includes studying techniques, note take and research.	e a systematic approach to the	strengthening

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 sof	tware to create and import t	racks, 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 st year students.	OPEN TO GRADE(S)	9, 10, 11, 12
	Application for returning students		
DESCRIPTION	Print Media Production is designed to provide the sprint news venues encompassed at Elizabeth Forwaneeded to create a High School Yearbook and a Hiwill form the editorial staff of each publication. Stude of photography, layout and design skills, how to managerial skills, and problem-solving skills. Attendating this course.	ard High School. Students wil gh School Newsletter. Secon ents will learn how to write art use the software affiliated wi	Il learn the skills id-year students icles, the basics ith each media,

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 ethroughout 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. Seniors cannot use Work Experience credits to count toward graduation requirement totals.	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.		

Course Title	Warrior Bots	Credit Value	0.50
Prerequisites	None	Open to Grade(s)	10,11,12
Description	SWPA BotsIQ is an educational robotics competition experience that allows them to discover the possibiliti science, technology, engineering, or math (STEM) fie safety regulations, competition rules and regulations, CAD, metalworking, 3D printing, wiring and electronic is paired with a local manufacturing company to serve potential for a career in manufacturing. *Students participating on the Bots IQ Team ARE REGULATION SET SET SET SET STUDENTS SET SET SET SET SET SET SET SET SET S	es of a career in manufacturing lds. Lessons include: a history design, researching, material pes, programming and battle teche as their industry mentor and lead to take two consecutives of the team.	g, and other of robotics, properties, nniques. EFHS earn about the

roomiology Laacation

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	iction 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 transportation. Students will learn from testing models		
	of cars, boats, planes, rockets, etc.		

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 i produce a more advanced product. Production techn individual project development. Manufacturing systegroup or class. The purpose of this experience will be considered by a typical company when manufacturing constructed to allow the student to express individual	iques will include manufacturing with the developed and case to comprehend the problem products for profit. Individual	ng systems and arried out as a as that must be

COURSE TITLE	Construction and Building Processes	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This class will emphasize building processes ar	d procedures that are used	d daily in the
	construction industry. Students will be exposed to framing, roofing, and finish carpentry. They will		
	build full-size projects such as sheds, gazebos, or staircases. Students will also experiment with		
	strengths and weaknesses of beams and trusses the	at must be overcome when bu	uilding bridges,
	towers, skyscrapers, etc.		

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 he 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 pltw.org 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 Des se see www.pltw.org for mos opics, including mechanisms, develop skills in problem-soly	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 as long as possible. This is a hands-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 D and also develop plans using CADD. This course is reconsumer interest in house planning, students who may 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

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, working with their hands, and 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	OPEN TO GRADE(S)	9, 10, 11, 12
	departmental teacher recommendation		
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 bering problems is the focus g software. The 3D modeling loable 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 have 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 photoshop. This course in this semester course! on your phone or iPad and then how to edit those Photoshop. This course includes instruction in photos	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 are 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

COURSE TITLE	Partners in Tech Ed	CREDIT VALUE	0.50 or 1.00
PREREQUISITE	None	OPEN TO GRADE(S)	10, 11,12
DESCRIPTION	The aim of Partners in Tech Ed is to provide, through program of developmental activities utilizing the Students will design and create a variety of engaging goal is for each student to gain a sense of accompl techniques presented in class with a successful end re	myriad of tools in Technological projects using basic tools and ishment through understand	logy Education. d materials. 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	Foundations of Drawing and Visual Arts	CREDIT VALUE	0.50
PREREQUISITE	None	OPEN TO GRADE(S)	9, 10, 11, 12
DESCRIPTION	This is an introductory art course (formerly called "Ex exploration of the "Elements of Art" within a composit drawing techniques in different mediums such as pen, g pastels, markers, paint, & much more.	tion, students will learn vario	ous sketching &

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, will examine what it means for a work to be modern. Exartistic styles and media including painting, sculpture, p photography, to name just a few. Modernism will lead us defy traditional categorization such as earth art, installa items, and much more. Projects will be collaborative the	s of Claude Monet and Vince and the pop art of Andy Warh amples will be drawn from a rintmaking, assemblage, digits into contemporary art styles tion, performance, art made to	nt Van Gogh, nol, this course variety of tal, s which may from recycled

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

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, techr 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	nge students to

COURSE TITLE	Brushstrokes and Beyond	CREDIT VALUE	0.50
PREREQUISITE	Beginning Painting	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	* Formerly Advanced Painting and Mixed Media, in painting techniques and new ways to see, use an personal style. Students will create multi-directional collage, printing, drawing, mixing, assemblage, cutting the elements of art and design with an emphasis on collage.	nd interpret creative ideas w compositions with a variety of a ng, pasting, etc. Emphasis w	hile developing materials, paint, ill be placed on

COURSE TITLE	Partners in Art	CREDIT VALUE	0.50 or 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 t	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.		create artwork performance in

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 with the support of technology. Students will		
	explore a variety of mediums including glass, fiber arts, weaving, leather, jewelry, wire, etc.		
	Students are responsible for purchasing some of their own supplies.		

COURSE TITLE	Slip Casting Ceramics	CREDIT VALUE	0.50
PREREQUISITE	Successful completion of Ceramics 1	OPEN TO GRADE(S)	10, 11, 12
DESCRIPTION	Slip casting is a ceramic forming technique for pottery. In this method, a liquid clay body is poured into a plaster mold and allowed to form a layer, the cast, on the inside walls of the mold. The piece is then removed from the mold, trimmed, fired, and ready to glaze or paint. The student will have the ability to customize their individual pieces or use the molds for mass production. A variety of seasonal and basic functional molds are available.		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 www.steelcentertech.com.

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.

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.

GRADING POLICY

A. General Information

Note: Steel Center does not issue report cards; however, student progress in real time, including quarterly grades and final averages, are available for view on eSD.Consult the school's website www.steelcentertech.com for more information.

Steel Center issues four (4) quarterly (or 9-weeks) grades. Final course averages are the arithmetical mean of those four (4) grades, expressed as a cumulative percentage. Steel Center's percentage grading scale is as follows:

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90\% - 100\% = A: Advanced 80\% - 89\% = B: Proficient
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70% - 79% = C: Basic

60% - 69% = D: Below Basic Passing < 60% = E/F: Below Basic Failing

Other marks:

F = Fail I = IncompleteP = Pass W = Withdrawal

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 credit 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 Photoshop, InDesign, Illustrator, Adobe Premier Pro, OSHA 10 Hour Training CareerSafe & 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, Section 609 Certification for Refrigerant Recycling and Recovery & 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 drive train 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, ServSafe Allergens, S/P2 Culinary Safety & 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 Builder's Association Certification (PBA), OSHA-10 Hour Training CareerSafe, Forklift Operator, American Ladder Institute-Articulated Ladder, Mobile Ladder, Single and Extension Ladder & 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)

Grades 10-12

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

Industry Certifications Available: Pennsylvania Builder's Association Certification (PBA), OSHA 10 Hour Training CareerSafe, Forklift Operator, S/P2 Construction Safety, American Ladder Institute-Articulated Ladder, Mobile Ladder, Single and Extension Ladder, Stop the Bleed & 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)

Grades 10-12

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

Industry Certifications Available: S/P2 Collision Safety, & 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.

Cybersecurity and Networking Technology (Program of Study

Grades 10-12

CIP Code: 11.0901, 3 or more credits/year.

Industry Certifications Available: A+ Certification, Network+, IT Fundamentals+, Cisco Certified Network Associate, OSHA 10 Hour Training CareerSafe & Pennsylvania Skills Certification

A program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software to maximize efficiency and productivity, and that prepares the individuals to function as network specialist and managers at various levels. Includes instruction in operating systems and applications; system design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.

Cosmetology (Career & Technical Program) Grades 10-12

<u>Cosmetology</u> (Career & Technical Program) CIP Code: 12.0401, 3 or more credits/year.

Industry Certifications Available: Cosmetology License, Manicurist, Esthetician, S/P2 Cosmetology Safety & 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)

Grades 10-12

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

Industry Certifications Available: ServSafe Manager Food Safety, ServSafe Food Handler, ServSafe Allergen, S/P2 Culinary Safety & 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.

Electrical Construction (Program of Study) CIP Code: 46.0399, 3 or more credit/year.

Grades 10-12

Industry Certifications Available: Pennsylvania Builder's Association Certification (PBA), OSHA 10 Hour Training CareerSafe & 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.

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

Grades 10-12

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 health care 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) CIP Code: 47.0201, 3 or more credits/year.

Grades 10-12

Industry Certifications Available: EPA 608 Technician Certification, Section 609 Certification for Refrigerant Recycling and Recovery, American Ladder Institute-Articulated Ladder, Mobile Ladder, Single and Extension Ladder, Pennsylvania Builder's Association Certification (PBA), OSHA 30 Hour Training CareerSafe & 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) CIP Code: 51.9999, 3 or more credits/year. **Grades 10-12**

Industry Certifications Available: Basic Life Support (BLS), Pharmacy Technician (CPhT), Phlebotomy Technician & 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.

<u>Public Safety</u> (Career & Technical Program) CIP Code: 51.0904, 3 or more credits/year. **Grades 10-12**

Industry Certifications Available: Emergency Medical Technician, National Incident Management System, Basic Life Support CPR, Stop the Bleed, American Ladder Institute-Articulated Ladder, Mobile Ladder, Single and Extension Ladder & 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.

Sports Medicine & Rehabilitation Professions (Career Technical & Program)
CIP Code: 51.2604, 3 or more credits/year.

Grades 10-12

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Industry Certifications Available: Basic Life Support CPR, First Aid, OSHA Healthcare Safety, OSHA 10 Hour Training CareerSafe & 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.

<u>Veterinary Assistant</u> (Career & Technical Program) CIP Code: 01.8301, 3 or more credits/year. **Grades 10-12**

Industry Certifications Available OSHA-10 Hour Health Care Safety, Red Cross Pet Tech First Aid, Purina Weight Coach, Fear Free & 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, OSHA 10 Hour Safety, & 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

Mrs. Jillian Monti, School Counselor Grades 10-12 (A-H) (412) 896-2346
Ms. Jennifer Hogan, School Counselor Grades 10-12 (I-Q) (412) 896-2362
Mr. Joseph McManus, School Counselor Grades 10-12 (R-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 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

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Mrs. Dorothy Wycoff