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A Message from the Principal to Students and Parents

This book contains all of the courses and the suggested course map for East Allegheny High School. These courses are the result of years of curricular work that took place with our faculty and took into account requirements for the Keystone Exams. The courses are aligned with the Pennsylvania Common Core State Standards and are designed to be rigorous for all students of all abilities. Many courses heterogeneously group students in order to maximize the student's ability. The Board of Education, Administration, and Faculty believe that all students can achieve and that high expectations must be established for all students to succeed. This is done to provide all students with the knowledge and skill base they will need to compete in postsecondary studies and the global economy. Providing anything less does a disservice to our students and community.

Students and parents should review the course select book carefully, and students should select courses based upon their post graduation goals. A student's past academic performance, teacher recommendation, parent and student input, test data, and administrative/counselor interpretations will determine placement in courses.

Our counselors meet with students on a regular basis to review course selection, academic progress, and to provide assistance with academic and personal issues. If you or your child is having difficulty with the scheduling process, please contact your child's school counselor immediately to help resolve the issue or answer a question.

Parents may contact their child's school counselor via email or by calling the school's main number. Students can also schedule an appointment with their counselors during the school day. It is important that students pay attention to the information provided about selecting courses and that they adhere to all deadlines for course submission.

East Allegheny High School Administration and Faculty will make every effort to work with you and your child to insure that the proper classes are selected that will best prepare your child for college or the world of work and that the curriculum will be rigorous and challenging. Please take some time to discuss with your child what courses he or she would like to take and how those courses will prepare your child for life after high school.

Donald MacFann Principal East Allegheny Senior High School

MINIMUM REQUIREMENTS FOR GRADUATION STATE & LOCAL (for the class of 2016)

English4 CreditsSocial Studies4 CreditsScience4 CreditsMath4 CreditsPhysical Education4 Years

FRESHMAN YEAR

English Social Studies Math Science Physical Education Two (2) Electives

JUNIOR YEAR

English Social Studies Math Science Physical Education Two (2) Electives

SOPHOMORE YEAR

English Social Studies Math Science Physical Education Two (2) Electives

SENIOR YEAR

English Social Studies Math Science Physical Education Two (2) Electives

MINIMUM REQUIRED CREDITS FOR GRADUATION ARE 24.

No High School diploma will be issued until all minimum credit requirements for graduation are met. This means students must earn at least a final grade of 'D' or above to earn credit for a course. If they do not earn at least 24 credits, they will not receive an East Allegheny High School diploma. **Students may not participate in the graduation ceremony unless they are receiving a diploma.** To make up required courses, consult with your School Counselor for information regarding accredited institutions where summer or evening programs are available. Fulfilling graduation requirements and any incurred tuition or cost are the responsibility of students and parents.

*The accounting of your credits is **your** responsibility. If there is doubt in your mind, arrange a conference with your counselor for clarification.

MINIMUM REQUIREMENTS FOR GRADUATION **STATE & LOCAL**

(for the classes of 2017 and beyond)

English 4 Credits Social Studies 4 Credits Science 3 Credits Math 3 Credits **Physical Education** 4 Years

FRESHMAN YEAR

English **Social Studies** Math Science **Physical Education** Two (2) Electives/Equivalent

JUNIOR YEAR

English Social Studies Math Science **Physical Education** Two (2) Electives/Equivalent

SOPHOMORE YEAR

English **Social Studies** Math Science **Physical Education** Two (2) Electives/Equivalent

SENIOR YEAR

English Social Studies Math Science **Physical Education** Two (2) Electives/Equivalent

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*The accounting of your credits is your responsibility. If there is doubt in your mind, arrange a conference with your counselor for clarification.

Keystone Testing

The Pennsylvania Department of Education requires all students to take the Keystone Exams as a requirement for graduation. The Keystone Exams will be given in the winter, spring and summer of the 2015-2016 school year and assess Algebra, Biology, and English Literature/Comprehension performance. The exams will be issued to all students enrolled in the above mentioned academic areas.

Individual Keystone Exams are comprised of two modules responsible for measuring student performance specific to Pennsylvania Common Core Standards. The exams are much like finals and are designed to measure individual student retention toward specific academic content. Students will take a particular Keystone Exam in the grade that they took the course. For example, if a student takes Algebra I in 9th grade, that is the year that the student will take the Keystone Exam. The exams are scheduled to be given in January and May and will mirror the facilitated content found within the curriculum. In order to pass the exams, students must score in the proficient or advanced range on the test.

Students are required to score in the proficient or advanced range on 3 Keystone Exams in order to graduate, and in future school years will take different exams each year in high school. During the 2015-2016 school year, students will be required to score proficient or advanced in Algebra, English Literature, and Biology. Students and parents will be informed of which exams they will be taking at the start of each school year.

The East Allegheny High School will offer our students every available incentive to succeed on the Keystone Exams. As such, students who show proficiency on the Keystone Exams will be given course credit toward their graduation requirement. By showing proficiency, the students will have displayed their retention of the course material and will be issued a passing grade in the form of an Administrative "D" if they have fallen short of receiving a passing grade within a specific course.

Keystone Remediation:

Students who did not pass a specific Keystone Exam(s) will have the opportunity to retake the exam(s), however, they will be required to participate in remedial programming for those Keystone subjects that they failed to score in the proficient range. These remedial classes will be mandatory for all those who did not score in the proficient range and will supersede any elective course.

Class of 2017 and beyond

Students who do not score proficient on a Keystone Exam and have been remediated will have to complete a Project Based Assessment created by the Pennsylvania Department of Education. **Students must be remediated once and have failed the exam twice in order to be eligible for the Project.**

Class Rank and Grade Point Average

At East Allegheny High School, there are two statistics reported on a student's transcript: the <u>grade point average</u>, and the <u>class rank</u>. The difference between the two is as follows:

<u>Grade Point Average:</u> Grade Point Average (GPA) is calculated at the end of each quarter and is shown on students' report cards. Final grades are used to calculate the GPA that is shown on the students' transcript. The GPA is **"unweighted"** in that all grades that are used to calculate this average use the same scale, regardless of whether the class is on the, Academic level, Honors level or AP level. The scale used is:

A (100% - 90%) =	4.0
B (89% - 80%) =	3.0
C (79% - 70%) =	2.0
D (69% - 60%) =	1.0
F (59% - 40%) =	0.0
Q (No credit due to	attendance policy violation) = 0.0

ALL courses, including elective and Physical Education courses, are included in GPA and class rank calculation.

<u>Class Rank:</u> In order to distinguish between students who have taken Academic courses and those who have taken Honors or AP courses, class rank is used. The class rank, therefore, is "weighted" to reflect the difficulty level of students' particular schedules. The following weights are utilized in this calculation:

LEVEL		WEIGHT	
AP	$\mathbf{A} = 7.0$	$\mathbf{B}=6.0$	C = 5.0
Honors	$\mathbf{A} = 6.0$	$\mathbf{B}=5.0$	$\mathbf{C} = 4.0$
Academic	$\mathbf{A} = 5.0$	$\mathbf{B}=4.0$	C = 3.0

*Note: All elective courses, including Forbes, will receive "Academic" weight.

By calculating class rank based on this scale, the result is a higher rank for a student who took higher-level courses than a student with lower-level courses.

For example, a student who took Academic courses in 9th grade and achieved final grades of straight A's would have a 4.0 GPA. Another student with Honors courses in 9th grade who achieved straight A's would also have a 4.0 GPA. However, to indicate that the student with the Honors courses had a more difficult schedule, he or she would be ranked higher than the student who took the Academic courses.

Sample schedules:

<u>STUDENT #1</u>		STUDENT #2	
Academic English/9	A = 5.0	Honors English/9	A = 6.0
Academic Civics	A = 5.0	Honors Civics	A = 6.0
Academic Algebra I	A = 5.0	Honors Geometry	A = 6.0
Academic Biology/Lab	A = 5.0	Honors Bio/Lab	A = 6.0
	$20.0 \div 4$	- = 5.0	$24.0 \div 4 = 6.0$

For class rank purposes, the student with 6.0 weighted quality points average (WQPA), would be ranked higher in their class than the student with 5.0 weighted quality points (WQPA).

SUGGESTIONS FOR PLANNING YOUR PROGRAM

- 1. Become familiar with courses offered and what the courses are designed to teach. Also, know the category of the courses offered and the appropriate selection for your past performance and ability.
- 2. Select subjects that fulfill requirements for graduation, future education, and occupational choices. If in doubt about career goals, it is wise to select a broad base of academic subjects.
- 3. For students interested in careers that require college training, such as health-related professions, engineering, science, mathematics or education, a strong academic background is necessary.
- 4. A student who plans to continue his/her education on the college level should begin to make plans in his/her high school career. Among the critical foundations:
 - a. Enrollment in academic classes in both required and elective courses.
 - b. Participation in test taking:
 - 1. PSAT (grades 10 and 11)
 - 2. SAT (grades 11 and 12)
 - c. Knowledge of the particular entrance requirements for the college of one's choice.
 - d. Consultation with the Guidance Department regarding college plans.
- 5. For those interested in entering the job market immediately after high school, a firm foundation in English, Math, Science, and Social Studies is needed. Computer courses are strongly recommended.

6. Discuss possible selections with teachers, counselors, and/or administrators and your parents for guidance in making wise choices.

FAILURE OF A CLASS

- 1. If a student fails an academic class in a year, the student is permitted to "double up" on these credits in subsequent years in order to meet graduation requirements.
- 2. Summer school information is available in the guidance office. It is your responsibility to see your counselor for credit evaluation and make ups.
- 3. Please refer to the Student Handbook for information on the school district's retention policy.

CYCLE COURSES

The East Allegheny High School schedule operates on a six-day cycle. This means that each day is numbered 1 through 6, then begins at 1 again. Classes that are affected by the cycle are physical education classes, health, and science labs. The purpose of the cycle is to maximize the use of time in order to provide a quality education to our students. For example, within one period, a student may have science lab on day 1 and physical education on days 2, 3, 4, 5 and 6. Therefore, he or she can take different subjects within one class period.

ONLINE COURSES

In the area of online course requirements, the online course would <u>not</u> count toward a student's grade point average. The online course will count as credit earned toward graduation <u>only</u> if it is taken for credit recovery of a failed course. Online courses can count as a pre-requisite course requirement for subsequent courses. A student <u>cannot</u> take an online course in lieu of taking the same course with a teacher here at East Allegheny. A student can take an additional online course in a topic the student failed during the course of the year as a credit recovery course. Students who wish to take a summer cyber course in order to meet a course pre-requisite must have earned a 90% as a final grade for the year in the course that he or she just finished during the regular school year and must then maintain a 90% grade average in the online course in order to advance to the next course during the regular school year.

COURSE SEQUENCE CHANGES

Please note that there are flow charts found in this book for each academic department that provide a suggested sequence for the enrollment of courses. However, the administration is aware that there are cases where a student may deviate from these sequences due to any of the following reasons:

- a. A student may "double up" on certain courses within an academic area either for credit recovery or to move up to the Honors track from the Academic track.
- b. A student has already taken and passed courses within his or her own grade level, so now may take courses outside of the suggested grade level.
- c. Students transferring in from other schools may not have taken the same courses listed within our suggested sequences and therefore, has to take something outside of grade level.

SCHEDULE CHANGES

- 1. Elective courses will not be changed. (Please see page 13 for clarification of the scheduling process.) Upon selecting, be absolutely sure you know what the course entails and your responsibility for that course.
- 2. Student/Parent class changes will be made only during the allotted schedule change period. <u>That time period will be from the time scheduling</u> <u>begins until three business days after the last day of school.</u> If a student is being placed in a class of a higher academic standing against the recommendations of the teacher, the student and parents must sign a waiver acknowledging that the student did not meet the stated pre-requisites to be admitted into the course and was placed there at the parent's request. (Thus, if the student flounders in the course, it is established that the parents and students were notified about the teachers concern.)

DUAL ENROLLMENT

The **Dual Enrollment Program** provides an opportunity for juniors or seniors to earn college credits while still in high school by attending a local college or university. Students must demonstrate exceptional academic performance and attendance to be approved for dual enrollment. The student and their family are responsible for meeting all financial obligations for the dual enrollment program.

Following are procedures to follow for registration:

- 1. Register for Dual Enrollment at the East Allegheny Guidance Office
- 2. Choose courses at CCAC, Penn State or other local college:
 - o <u>www.ccac.edu</u>
 - o <u>www.ga.psu.edu</u>
- 3. If taking Math, English or some Science, take placement exam at CCAC. Call for an appointment (724)325-6614; Penn State Greater Allegheny (412) 675-9010.
- 4. Complete Dual Enrollment Application. Include High School Counselor's signature and transcript (letter for Penn State).
- 5. Make appointment with advisor: *CCAC* (724)325-6614
 Penn State (412) 675-9010
 Once the advisor has signed the application you can immediately register.
- Register and pay for the courses. Tuition payment plans are available through CCAC and reduced tuition is available at Penn State Greater Allegheny.

More information is available in the Guidance Office.

NCAA ACADEMIC ELIGIBILITY REQUIREMENTS

A student who is planning to attend a Division I or Division II college and participate in athletics must meet eligibility requirements. <u>The NCAA, on their website at</u> <u>www.ncaaclearinghouse.net, provides a full explanation of these requirements.</u> It is the responsibility of the student to be aware of and meet these requirements. The fee is also the responsibility of the student. A student must graduate from high school. The minimum grade point average acceptable is a 2.00. Students must also take either the SAT or ACT exam. Information on these tests is located in the Guidance Office.

Listed below are the core courses needed to become eligible for an NCAA Division I school (NOTE: a C or better must be earned in order for these classes to be eligible):

English	4 years
Mathematics	3 years of courses at the level of Algebra I or above
Natural or Physical Science	2 years including at least one year of a laboratory course
Additional Courses in English, mathematics, natural or physical science.	1 year
Social Science	2 years
Additional academic courses (in any of the above areas or foreign language, computer science, philosophy, or non-doctrinal religion)	4 years
Division II academic eligibility requin	rements are as listed below.
Division II academic eligibility requin English	rements are as listed below. 3 years
English	3 years
English Mathematics (Algebra I or higher) Natural or physical science (including	3 years 2 years
English Mathematics (Algebra I or higher) Natural or physical science (including at least one laboratory course) Additional courses in English, mathematics, or natural or	3 years 2 years 2 years

of the above areas or foreign language, computer science, philosophy, or non-doctrinal religion) 3 years

DEFINITIONS OF COURSE CATEGORIES

ADVANCED PLACEMENT COURSES

Students enrolled in AP Statistics, AP English 12 and AP U.S. History are required to take the AP exam in their respective subject areas, and the District will cover the cost of the tests. These exams are scheduled during the first two weeks of May.

The scores on the AP Exams range from 1 to 5. Generally, colleges will accept a score of 3 or above to substitute for college credit. It is the student's responsibility to contact their prospective college to determine which scores they will accept.

HONORS COURSES

Students who qualify for Honors Courses at East Allegheny High School will be expected to follow an intensive study program, which will delve into challenging areas of academic pursuit.

The entry window for Honors Courses will be prior to the beginning of the school year. No schedule changes into an Honors Course will be made after the first day of school.

ACADEMIC COURSES

These courses are primarily designed to offer a challenging curriculum to those students who have demonstrated both an aptitude and a desire to attend a four-year college, technical school or enter the workforce upon graduation.

ELECTIVE COURSES

These courses are offered to students as a means of enhancing the basic academic course offerings. We offer a wide selection of courses in the areas of the arts, music, family and consumer sciences and technical offerings. Students are encouraged to explore these classes as a means of gaining a well-rounded education.

FORBES ROAD CAREER AND TECHNOLOGY CENTER

PHILOSOPHY STATEMENT

East Allegheny High School in its function to provide a comprehensive education for its entire student body works in conjunction with Forbes Road Career and Technology Center. It is the sincere hope that the combined efforts of both educational institutions will enable all participating students to acquire the necessary skills, which will allow them to take their rightful places in society.

OBJECTIVES FOR STUDENTS

Students upon completion of their academic and vocational studies at both East Allegheny High School and Forbes Road Career and Technology Center will be able to utilize the knowledge and skills gained from both institutions and to transfer them into viable employment situations.

SCHEDULING

Students are permitted to attend Forbes Road CTC beginning in the tenth grade if they achieve a score of Proficient or Advanced on 2 out of the 3 Keystone Exams taken in ninth grade. However, the Administration recognizes the need to fulfill a student's IEP. Representatives from Forbes come to East Allegheny to speak to all ninth graders in the spring regarding the programs of study they have to offer. After that, once the scheduling process begins, a student would indicate on his or her <u>course selection sheet</u> if they plan to attend Forbes the following year. In addition, <u>an application to Forbes Road CTC is also required prior to admission</u>. Applications may be found in the Guidance Office. **Please refer to page 56 of this booklet for a listing of programs.**

PERFORMANCE PROCEDURES

Performance procedures are as follows:

1. Student must adhere to attendance/discipline standards and policies at <u>both</u> East Allegheny <u>and</u> Forbes to remain enrolled at Forbes.

Students must demonstrate proper deportment and safety practices while at Forbes. Repeated violations will warrant a review that may lead to a return to the regular curriculum offered at East Allegheny High School.

COURSE SELECTION SHEET PROCEDURES

- 1. Students are to select six (6) courses plus physical education in the main body of the select sheet.
- 2. Students are then given the opportunity to select two alternative courses in the event one or more of his/her main selections are in conflict, or may not be offered.
- 3. Alternate choices will be used to resolve any scheduling problems.
- 4. Alternate selections can be made from required or elective courses.
- 5. If a student chooses not to select alternate choices, the administration will develop the student's schedule.

SCHEDULING PROCESS

Students should exercise extreme care in the selection of their courses. They should take advantage of every possible source of assistance and guidance.

In selecting courses, students should give serious thought to such matters as prior success and failures, pre-requisites, special interests and aptitudes, and future college and career plans. Course selections should be **firm** decisions, thoughtfully made after careful consultation with parents, teachers, and counselors. <u>It is our goal to have all scheduling completed prior to the close of the current school year. If this goal is met, no class changes will occur after the third business day following the last day of school. These austere measures must be undertaken because course selection changes create budgetary, scheduling, and staffing difficulties. Students and parents should be absolutely sure they are aware of what a course entails when making their selections.</u>

If we do not make our goal of having all the scheduling finished before the close of school, we will adjust the dates accordingly.

Once the school year has started, the only class changes that will be made are those initiated by a teacher, who in his/her professional opinion, feels that a student has been misplaced and has no chance of being successful in that particular class (i.e. failing at interim time of the first marking period). Therefore, a parent who wishes to request a schedule change for a student should contact the teacher directly to discuss the schedule change. These <u>teacher initiated class changes</u> must be received in the guidance office by the <u>interim of the first marking period</u>. The requested changes must be on the proper form, found in the Guidance Office. There will be no exceptions to this procedure. The administration recognizes the need to fulfill an IEP.

NATIONAL HONOR SOCIETY

Students who excel in academics may consider joining the National Honor Society. Any student in grades 10 through 12 will be considered for membership if a teacher recommends them or if they nominate themselves for membership.

The following are the qualifications for membership:

- 1. All prospective members must have a 3.7 or better GPA, based on a 4.0 scale.
- 2. All grades that a student earns will be included in the average.
- 3. Student's cumulative grade point average will include all grades from the previous four nine weeks' grading periods.
- 4. To be eligible for membership in the National Honor Society, the prospective member must have a least two (2) Honors/AP courses.
- 5. Any prospective member who has a "D" or lower in any course during the previous four nine weeks will not be eligible.
- 6. Any prospective member who has been suspended out of school or in-school in the previous four nine weeks will not be eligible.
- 7. Once a student has been nominated and it has been determined that he or she is eligible for membership, an application **must** be completed and submitted for review.
- 8. All prospective members must agree to abide by the NHS Chapter By-Laws.

ENGLISH DEPARTMENT ADVANCED PLACEMENT COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE	
0005	ENGLISH	11	Pre-AP	
This course, desig	ned for students with superior	language arts abilities, will pr	epare students for college	
level English courses and the Advanced Placement test during their senior year. Students will be				
required to read w	idely and deeply, with an empl	hasis on the works of America	an and British authors.	
Students should e	xpect homework every night; t	herefore, exemplary study sk	ills are essential. Students	
will need to devote	a substantial amount of time	to this course in order to be s	uccessful. The completion	
of the summer rea	ding component is mandatory.			
–				

Prerequisites for admittance to this course:

- 85% or higher in the student's current Honors English course
- A score of Advanced or Proficient on the Keystone Literature Exam
- Students who do not meet this grade requirement may be admitted at the discretion of the teacher.

0010ENGLISH12APThis course will prepare students for college level English and for the Advanced Placement English
Literature and Composition Examination, which students will take in May. Many colleges offer credit for a
score of "3" or above on the exam. Class will focus on the analysis of modern and classical literature
through discussion and writing. Emphasis will be placed on refining students' oral and written
communication skills. Students should possess a love of reading, as they will be required to read widely
and deeply, with an emphasis on the works of American and British authors. Students should expect
homework every night; therefore, exemplary study skills are essential. Students will need to devote a
substantial amount of time to this course in order to be successful. The completion of the summer reading
component is mandatory.

Prerequisite for admittance to this course:

- 85% or higher in Pre-AP English
- A score of Advanced on the Keystone Literature Exam
- Students who do not meet this grade requirement may be admitted at the discretion of the teacher.

ENGLISH DEPARTMENT HONORS COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
0015	ENGLISH	9	HONORS
This course, which	n focuses on studying literature	of various genres, is desi	igned for students who possess
superior language arts ability. Throughout the year, students will read and analyze poems, short stories,			
novels and plays f	rom classical and contemporary	/ writers. Students will en	hance their reading
comprehension, w	riting, grammar, communicatior	n and vocabulary skills. S	tudents will also complete a
research project a	nd write multi-paragraph compo	ositions. Completion of the	e summer reading component
is mandatory.			

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

1. A grade of 85% or higher in the student's current English and Reading course.

2. Students must achieve a score of "Advanced"/"Proficient" on the 8th grade PSSA Reading Test

3. Students must maintain a grade of 85% or higher to remain in Honors English the next year.

4. Students who do not meet this grade requirement may be admitted at the discretion of the teacher

0025ENGLISH10HONORSThis course is designed for students who possess superior language arts ability.Students will refine
comprehension, critical thinking, vocabulary, and grammar skills while reading a variety of World
Literature.Additional genres of literature will be assigned, read independently, discussed, and assessed
during the course of the school year.Writing and speaking skills will be emphasized through multi-
paragraph compositions, as well as the completion and presentation of a rigorous informative research
project.

Finally, this class entails a summer reading component that is mandatory and must be completed and turned-in the first day of school. Students who fail to submit the summer assignment will not be able to proceed with the class.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. A grade of 85% or higher in the student's current English course
- 2. Students must maintain a grade of 85% or higher to remain in Honors English the next year.
- 3. A score of Advanced or Proficient on the Keystone Literature Exam

4. Students who do not meet this grade requirement may be admitted at the discretion of the teacher

ENGLISH DEPARTMENT HONORS COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
0035	ENGLISH	11	HONORS

This course is designed for those students who have a sound and thorough knowledge of the language arts. This course will focus on selected readings in American Literature, with an emphasis on analytical techniques. Multiple multi-paragraph compositions and a research project are additional components. Completion of the summer reading component is mandatory.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. A grade of 85% or higher in the student's current English course.
- 2. Students must maintain a grade of 85% or higher to remain in Honors English the next year.
- 3. A score of Advanced or Proficient on the Keystone Literature Exam

4. Students who do not meet this grade requirement may be admitted at the discretion of the teacher

0045 ENGLISH 12 HONORS This course is designed for seniors who possess superior language arts abilities. Using British Lite

This course is designed for seniors who possess superior language arts abilities. Using British Literature as a focus, students will refine literal, analytical and evaluative comprehension skills. Writing and speaking skills will also be emphasized: students will write several multi-paragraph compositions, prepare several oral reports, and complete a research project. Completion of the summer reading component is mandatory. Additional independent reading projects will be assigned during the school year. **Prerequisites**: Students applying for admission to this course must satisfy the criteria listed below.

- 1. A grade of 85% or higher in the student's current English course.
- Students must maintain an 85% or higher if prior course was an Honors course.
- 3. A score of Advanced or Proficient on the Keystone Literature Exam

4. Students who do not meet this grade requirement may be admitted at the discretion of the teacher

ENGLISH DEPARTMENT ACADEMIC COURSES

will read poems, short enhance their reading	COURSE NAME ENGLISH on reading and analyzing literature of various stories, novels and plays from classical and comprehension, writing, grammar, commun esearch project and write multi-paragraph co	d contemporary writers nication and vocabular	s. Students will
vocabulary, and gram through whole group i	ENGLISH e as a focus, students will improve and enhat mar skills. Additional genres of literature will nstruction and assessment. Writing and spe- signments as well as the completion and pre-	ll be read and discuss eaking skills will be en	ed as a class
literary works are furth	ENGLISH American Literature, the student's comprehe her developed. In addition, vocabulary study positions are components of the course. Stu arch project.	, grammar and usage	e review, and
will be expected to con project and to complete	ENGLISH British Literature, the skills of critical reading mplete several multi-paragraph composition te independent reading assignments. Speal eral speeches and oral presentations. Voca urse.	s, to prepare an exter king skills will also be	nsive research emphasized with
the mainstream classe and listening. Studen oral and written compo- writing in which studen be made comprehens	ESL ENGLISH h Language Learners (ELLs) is designed to es. A focus is placed on the four domains of ts will read and respond to level-appropriate etence in English. Students will participate in the will receive guided practice across each ible through a variety of theory-based strate mages, gestures, technology, and inquiry-base	f language: reading, v story selections and v in a "process over pro step of the writing pro gies for ELLs, includir	writing, speaking work to develop duct" approach to cess. Content will

ENGLISH DEPARTMENT **ELECTIVE COURSES**

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
0201	JOURNALISM I	9-12	ELECTIVE
— ••••••••••••••••••••••••••••••••••••		 	

This elective course explores careers in journalism while developing skills needed in the profession. Students will learn various journalistic writing styles to compose hard news, various features, critical reviews, editorials, columns, etc. for class and the school newspaper. Students will use various researching techniques such as observation, interviews and Internet searching. They will be responsible for the school's newspaper, and other student news productions depending on ability levels.

Prerequisite: Students wishing to enroll in this course must have "80%" average in their current English class.

0202 JOURNALISM II 10-12 This elective course is designed for students who successfully completed Journalism I with an average of 85% or above. Students will continue to master the writing skills necessary for a career in journalism while taking on the responsibilities of planning the content, editing the writing, and designing the layout of the school newspaper.

0203 JOURNALISM III 11-12 ELECTIVE This elective course is designed for students who successfully completed Journalism II with an average of 90% or above. Students will continue to master the writing skills necessary for a career in journalism while taking on the major responsibilities of planning the content, editing the writing, and designing the layout of the school newspaper.

0204 **PUBLIC SPEAKING** 9-12 ELECTIVE (SEMESTER COURSE) This semester course will be for students who want to learn to think clearly and express themselves effectively before an audience. Students will be able to increase their fluency as a speaker and their selfconfidence. Students will gain practical experience through participation. Students will prepare and

deliver a variety of timed speeches.

0205 FILM ANTHROPOLOGY 9-12 (SEMESTER COURSE)

This semester course will challenge students to look at the social, political, and economical influences of classic American film. Units will be organized by genre: epic, western, romance, crime, science fiction, and drama. Students will study the cultural effects of these films. Assessment will be determined by student presentations based on anthropological research. Students will give speeches and write essays that demonstrate knowledge and mastery of each genre. Quizzes and class participation will also be included.



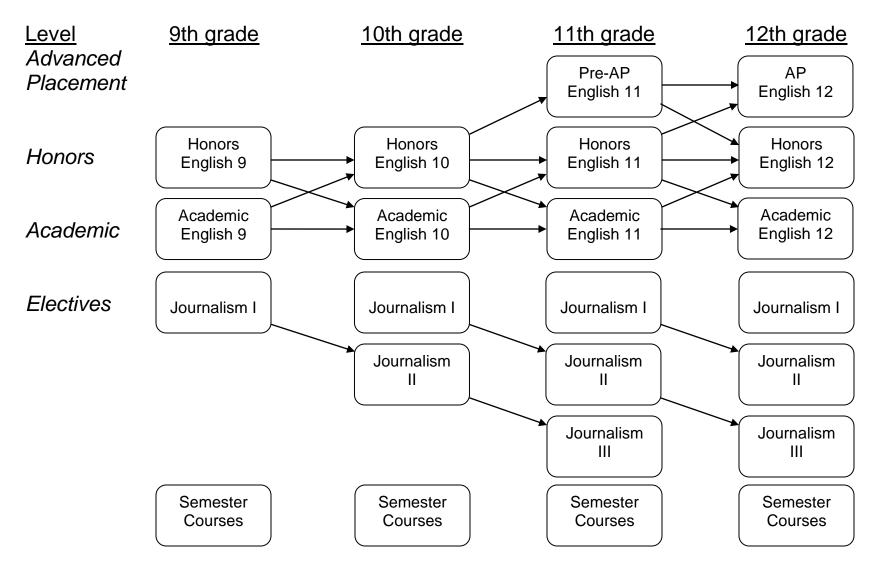
ELECTIVE

ENGLISH DEPARTMENT ELECTIVE COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
0206	CLASSICAL MYTHOLOGY	10-12	ELECTIVE
	(SEMESTER COURSE)		
	-		grades 10-12 who have scored an
			his semester course will introduce the
			stand how these myths shaped and were
			ble to recognize the importance of
			major exams, regular quizzes on
assigned section	ons, and positive classroom pa	rticipation.	
0007		40.40	
0207	CREATIVE WRITING (SEMESTER COURSE)	10-12	ELECTIVE
Advanced or F express and fin students will also	A designed and recommender Proficient on the Keystone Linesse their creative sides in write so read some literature to use of to strengthen their own creative	iterature Exam. A iting. Although this them as models.	grades 10-12 who have scored an A course designed for those who want to a course is predominately a writing course, Students will observe what other authors They will write short stories, poems,
0208	CRIME FICTION	10-12	ELECTIVE
This course is	(SEMESTER COURSE)	d for students in	grades 10-12 who have scored an
			This semester course will introduce the
			of society: however, most crimes have a
			ns. A detective is brought in to solve
		•	the relationship between the criminal,
			eading journal, short answer quizzes,
	d positive classroom participat		
-	- · ·		

0209READING ACROSS the CURRICULUM9-11ELECTIVEThis course is designed to provide instruction in basic and developmental reading skills and strategies
while emphasizing individual progress. Course content depends on students' abilities entering the course
and is designed to accelerate student growth in reading ability. Instruction may focus on reading silently
or aloud, vocabulary development, comprehension, reading fluency, decoding skills, reading/writing
connections, text-based collaboration, and self-directed learning. Placement in this course will be based
upon PSSA/Keystone Literature results as well as teacher recommendation.9-11ELECTIVE

English Department



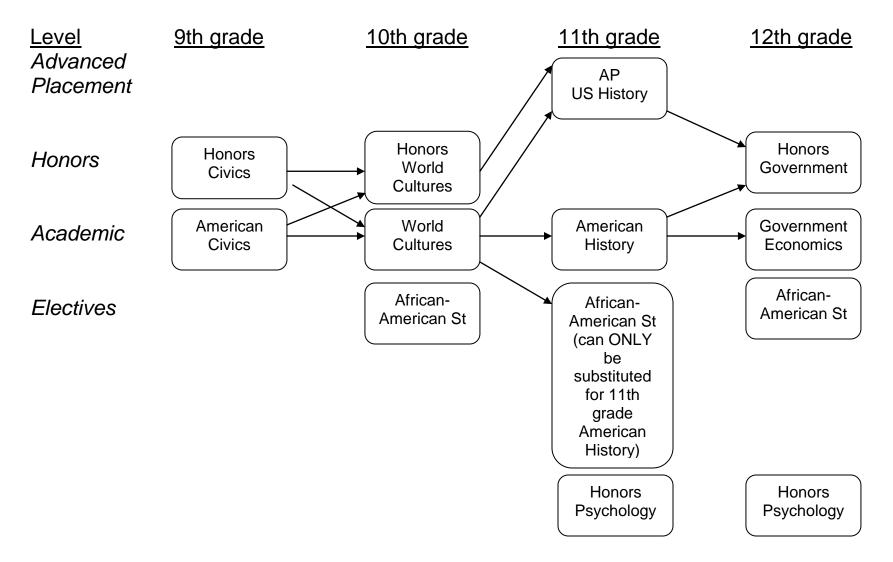
SOCIAL STUDIES DEPARTMENT

The Social Studies Department is charged with preparing students to become citizens for life in a multicultural technological world in the 21st Century. Students must be aware of the strengths and weaknesses of themselves and others and to be able to cooperate in order to solve the complex problems confronting society today. They must be adaptable, tolerant, and able to work with others. To facilitate this goal, the Social Studies Department offers a three-tiered, four-year program.

Students may enroll in AP, Honors, or Academic Social Studies Courses according to availability by grade level. These courses will emphasize the development of vocabulary; require extensive reading of complex materials with reaction in written and oral presentations.

Comprehensive Social Studies is a four-year program. Each required course is a part of this program. In today's career-oriented world, Social Studies disciplines such as History, Geography, Economics, Sociology, and Government provide depth and scope for making decisions. Learning how to learn is a goal of the Social Studies Program. Students will engage in a variety of learning experiences including the use of media and other technology as well as traditional written materials for research and observation. Students can expect to make written, oral and media-centered presentations and exhibit samples of their work.

Social Studies Department



SOCIAL STUDIES DEPARTMENT ADVANCED PLACEMENT COURSE

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
1000	US HISTORY	11	AP

This course will prepare students for college level History classes and for the Advanced Placement US History Examination, which students will take in May. Many colleges offer credit for a score of "3" or above on the exam. Class will focus on the analysis of American History through discussion and writing. Emphasis will be placed on refining students' analytical, oral, and written communication skills. Students should expect homework every night; therefore, exemplary study skills are essential. Students will need to devote a substantial amount of time to this course in order to be successful. The completion of the summer reading component is mandatory.

Prerequisites:

- 90% or higher in the student's current Social Studies course
- A score of "Advanced" on the tenth grade Literature CDT test section
- Recommendation of 10th grade Social Studies teacher

HONORS COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
1001	GOVERNMENT &	12	HONORS*
	ECONOMICS IN AMER		

This College in the High School curriculum is divided into two parts. The first 27 weeks will be a comprehensive study of American Government and citizenship. The following subjects will be included in the course: use of newspapers to explain current political problems in our society; the United States Constitution; equal protection under the law; how Congress and State Legislatures make laws; State and Federal Court systems; voting procedures in the United States; the function of the President and governors; and the function of counties, municipalities and school districts in local government. Students will be required to complete semester projects and to do extensive outside readings and written work

The last quarter will be a comprehensive study of Economics focusing on theoretical and practical aspects of this discipline. Students will be engaged in the theoretical aspects of supply, demand, price, and the business cycle, plus the practical aspects of credit, investing, and consumer spending. The application of theory to the practical is an important aspect of this course. The student will participate in a series of economic labs to ensure that the application of theory to practical uses will be maximized.

College Credits for this course are through Carlow University and are \$60 a credit (subject to change by Carlow) (3 credits = \$180)

Prerequisites:

- A 90% or higher in the previous social studies class taken
- A recommendation from the 11th grade social studies teacher

HONORS COURSES (continued)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
1002	WORLD CULTURES	10	HONORS*

World Cultures is an honors level course that strives to develop an appreciation of the world we live based on its historical and cultural foundations. This course, designed to make students life-long learners, increases an appreciation of how cultures develop by implementing an interdisciplinary approach to learning. The World Cultures curriculum is intricately tied to both the literature/arts and the process skills component of the sophomore level of the Scholars' Center for the Humanities. It is designed to prepare students to link historical events to literature, art, architecture, philosophy, poetry, and the politics of a wide variety of cultures from the start of the earliest civilizations to present day.

This full year course prepares students to develop higher level critical thinking skills, incorporate primary source readings, use analytical discussion to predict possible outcomes, and manipulate a wide range of research techniques to aid in presentation skills within the classroom. This student-centered course is aimed at grooming students to be able to discern pertinent information in the formulation of cogent projects to understand and compare cultures

World Cultures is an honors level course for sophomores dealing with the historical and cultural foundations of civilization. Students will be engaged in various activities designed to display the link between the past and present. Activities are designed to challenge students to go beyond the text and discern important concepts of themes within each unit

Students can expect to participate in the following activities: oral presentations, written examinations, debates, role playing, technology-based projects, historical film studies, document based questions and primary sources

Prerequisites:

90% in Academic Civics class and teacher recommendation 85% in Honors Civics class and teacher recommendation

1003 CIVICS 9 HONORS*

Honors Civics is an honors level course for freshmen designed to challenge students to develop an understanding of various concepts and involvement in citizenship and government. Students will be introduced to federal, state and local governments, gain knowledge of citizenship duties and responsibilities, as well as a survey of Pennsylvania History and current events in this full year course. Students will engage in various activities designed to apply rigorous written and oral skills that go beyond the text and are relevant to their civic duties. Students can expect to participate in the following curriculum based activities: written examinations, oral presentations, use primary source documents, writing document based essay questions, discussion/debates, technology based projects, historical film studies, webquests, map, table and graph activities.

Prerequisites:

90% in 8th Grade History Teacher Recommendation (HS or MS)

1101HONORS PSYCHOLOGY11-12ELECTIVE

This is a College in the High School Course taught through Carlow University. This course is designed for students who plan post-secondary training in fields that involve human behavior such as business, medicine, sales, law or education. Human behavior is studied with emphasis on personality development, mental health, emotional growth, learning theories, as well as dreams and ESP. Students will be asked to keep a notebook of personal investigation as well as an academic notebook. Human behavior will be studied on both a personal as well as an academic level. Students will be required to complete semester projects and to do extensive outside readings and written work.

College Credits for this course are through Carlow University and are \$60 a credit (subject to change by Carlow) (3 credits = \$180)

Prerequisites:

- A 90% or higher in the previous social studies class taken
- A recommendation from the previous social studies teacher

*An 85% grade average must be maintained to continue in the Honors track.

SOCIAL STUDIES DEPARTMENT ACADEMIC COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
1004	AMERICAN CIVICS	9	ACADEMIC
This course appr	oaches Civics in a theore	etical, academic, and pra	ctical nature. Students will be
introduced to the federal, state, and local governments. The students will gain the knowledge to become			
productive citizer	ns. The students will also	learn to appreciate thei	r civic duties. The curriculum will
include written ar	nd oral exercises, quarter	ly projects, reading assig	gnments, current event activities,
discussion skill e	xercises, map, table, and	graph reading activities	. The groundwork for research paper
writing will be laid	through instruction and	practice.	

1014	WORLD HISTORY	10	ACADEMIC
	& CULTURES		

Students will study the history of major world cultures. As the world grows more interdependent, it is imperative that people understand each other. The growth of civilization will be emphasized in a series of activities designed to promote an understanding of present day events. Students will examine, compare and contrast the geographical and cultural aspects of civilizations in historical context. They will also investigate political, economic and social aspects of world cultures. The activities will include written and oral reports, projects, reading assignments including primary and secondary source material, discussion, map, table and graph reading activities.

1024	HISTORY OF THE	11	ACADEMIC
	AMERICAN NATION		

This course is designed to examine the history of the United States (1865 to the present) starting with the Reconstruction Era, Gilded Age, and Western Expansion. The majority of the class will emphasize the 20th Century through investigating how the American Economic, Political and Social systems have changed during the history of the United States. The student will be able to recognize the roots of today's society, political system, and economy in the study of the American past. The student must be a self-motivated learner willing to follow a rigorous course of study that will be evaluated through oral discussions, objective tests and written essays.

1034 GOVERNMENT & 12 ACADEMIC ECONOMICS IN AMERICA 12 ACADEMIC

The Academic 12th Grade Social Studies Course is divided into two parts. The first semester will be a comprehensive study of American Government and citizenship. The following subjects will be included in the course: use of newspapers to explain current political problems in our society; the United States Constitution; equal protection under the law; how Congress and State Legislatures make laws; State and Federal Court systems; voting procedures in the United States; the function of the President and governors; and the function of counties, municipalities and school districts in local government.

The second semester will be a comprehensive study of Economics focusing on theoretical and practical aspects of this discipline. Students will be engaged in the theoretical aspects of supply, demand, price, and the business cycle, plus the practical aspects of credit, investing, and consumer spending. The application of theory to the practical is an important aspect of this course. The student will participate in a series of economic labs to ensure that the application of theory to practical uses will be maximized.

8091ESL-SOCIAL STUDIES9-12ACADEMICThis course accommodates ESL students as they become familiar with American culture, as well as the
school culture. Culturally relevant pedagogical practices will enable students to share aspects of their
native culture and compare and contrast them to American culture. Students will further develop their
English communication skills in relation to the Social Studies topics of civics, citizenship, history, and
geography. Close attention will be paid to students' ongoing development of academic language. Cross-
curricular connections will be made to ESL-English.

SOCIAL STUDIES DEPARTMENT ELECTIVES

1102 AFRICAN-AMERICAN 10-12 ELECTIVE STUDIES*

This course will examine the accomplishments and struggles of Black Americans from roots in Africa through the Civil Rights Era of the 20th Century with a special focus on the Western Pennsylvania experience. Scholars, entertainers, athletes, businessmen and ordinary people have stories to tell. Students will engage in activities that are designed to understand present events in their historical context. Activities will include biographical investigations, written and oral reports, projects, computer research, role-playing, class discussion, interactions with African American professionals, reading assignments, and homework.

*African-American Studies will be permitted to be substitute for the 11th grade Academic American History course.

MATHEMATICS DEPARTMENT

The East Allegheny math department has adopted the Pennsylvania Core Standards. The goal of the Mathematics Department is to provide all students an opportunity to learn the mathematics they will need to be productive citizens. Today's students will live their lives in a world far more technologically advanced than what is in place presently. With continual progress in the field of mathematics and technology, this generation will be required to know more mathematics than ever before and will need to apply this knowledge to their daily lives and future careers.

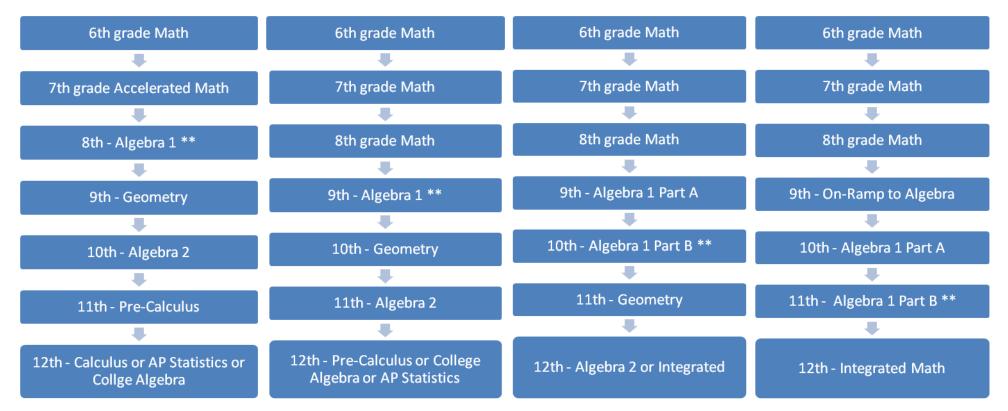
Problem solving and critical thinking skills will be developed through practical mathematical applications. Content will be comprised of the base of knowledge that students will need to enter a four year traditional college, community college/technical school, post-secondary training or to embark upon a variety of technical occupations. Students will be prepared for mathematics they will encounter in their future mathematics courses and in life.

TECHNOLOGY

While computation is vital in the information age in which we live, technology has drastically changed the methods by which we compute. To function in the modern world, it is necessary to compute and estimate in a variety of settings. A goal of the East Allegheny Mathematics Department is to prepare young people to select and use appropriate mental, paper and pencil, calculator, and computer methods effectively.

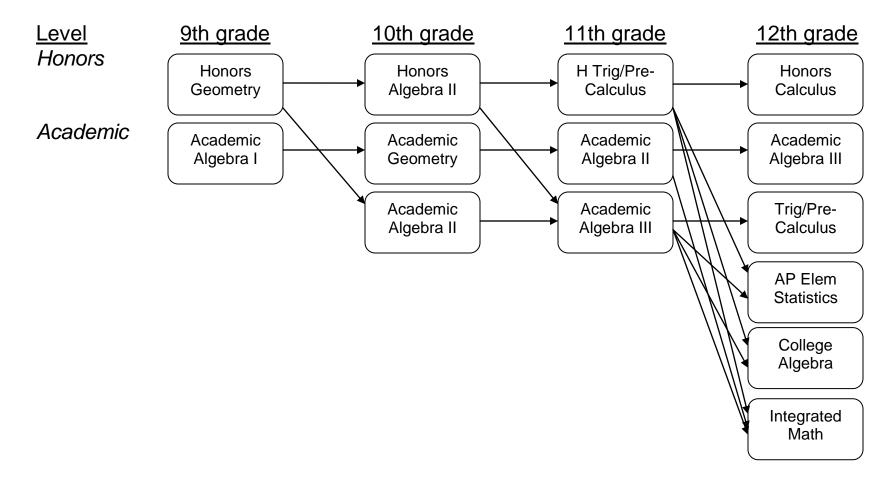
Most classes will use a graphing calculator. The students would benefit from getting their own graphing calculator to use in class. The department recommends the TI-83 Plus or higher, which can be used in high school and college classes.

Math course progressions for students graduating in or after 2017



** Keystone Exam administered

Mathematics Department (Class of 2016)



2015-2016 MATHEMATICS DEPARTMENT HONORS COURSES COURSE NAME GRADE

2202	AP ELEMENTARY STATIST	CS 12	ADVANCED PLACEMENT	
	to a one-semester, introducto			
	the AP course in statistics is t			
	ing and drawing conclusions f			
	n. Exemplary study skills and			
	. Students are exposed to four		nemes:	
	g patterns and departures fror			
	tation: Planning and conductir			
	loring random phenomena us			
	nating population parameters			
	the course include the use of			
	n-solving, and writing, as a pa			
assessment. Students with the appropriate mathematical background are encouraged to take both AP				
Statistics and Calculus in high school.				
Prerequisites:				
85% or higher in Honors Algebra 2 or Pre-Calculus is required.				
Computer Applications is strongly suggested for the use of spreadsheets.				
2015	GEOMETRY	9-10	HONORS*	

Geometry is a complete and comprehensive course aligned with the Pennsylvania Common Core Standards. Students will explore complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. The Mathematical Practice Standards apply throughout the course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Tools of Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Congruent Triangles, Relationships within Triangles, Polygons and Quadrilaterals, Similarity, Right Triangles and Trigonometry, Transformations, Area, Surface Area, and Volume, and Circles. This course is designed for the student who is preparing for college and/or the workforce.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. 95% or higher in Algebra 1:High School
- 2. 90% or higher in LAC, Algebra 1:8th Grade Committee recommendation which will take into account student course work and Keystone Algebra 1 Exam score.
- 3. An 85% grade average must be maintained to have teacher recommendation to remain in any honors math course for the following year.

2025

COURSE NO.

ALGEBRA II

10-11

HONORS*

COURSE TYPE

Algebra 2 is a complete and comprehensive course aligned with the Pennsylvania Common Core Standards. It builds on the students' work with linear, quadratic, and exponential functions by introducing polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout the course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Expressions, Equations, and Inequalities, Functions, Equations, and Graphs, Linear Systems, Quadratic, Polynomial, Radical, Exponential, Logarithmic and Rational Functions, Sequences and Series, Probability and Statistics, and Basic Trigonometric Functions. This course is designed for the student who is preparing for college.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. 85% or higher in Honors Geometry.
- 2. 95% or higher in Academic Geometry.
- 3. An 85% grade average must be maintained to have teacher recommendation to remain in any honors math course for the following year.

MATHEMATICS DEPARTMENT HONORS COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
2035	TRIGONOMETRY/PRE-CALCULUS	11-12	HONORS*

Trigonometry/Pre-Calculus is offered to provide the background necessary to pursue mathematics and related areas at the collegiate level. The student selecting this course should have achieved a high level of success in previous academic mathematics studies. A strong emphasis will be placed on the study of the algebraic functions, trigonometric functions, matrices, sequences, conic sections and analytic concept of the function and its importance in mathematics.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. 85% or higher in Honors Algebra 2.
- 2. An 85% grade average must be maintained to have teacher recommendation to remain in any honors math course for the following year.

2045CALCULUS11 - 12HONORS*This course consists of a full academic year of work in calculus and related topics comparable to
courses offered at the university level. Calculus is offered for the mathematically able students who have
a thorough knowledge of college preparatory mathematics, including Algebra I and II, Geometry,
Trigonometry and some analytical geometry (equations and graphs, lines, and conics). Topics covered
will include elementary functions, differential calculus, and integral calculus.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

1. 85% or higher in Pre-calculus.

2015-2016 MATHEMATICS DEPARTMENT ACADEMIC COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
8300	ON RAMP TO ALGEB	RA 9	ACADEMIC
On Ramp to Algebra	is a program designed to	b build and solidify found	dational skills and conceptual
understanding necessary to be successful in Algebra I. It provides explicit instruction in math skills,			
problem solving and	key concepts. The prog	ram is specifically desig	ned to prepare students for
success in Algebra I.	Units of study will include	de foundations of Algebr	a, Operations with Fractions,
Positive and Negative	Numbers, Ratio and Pro	portionality, Showing Re	elationships with Graphs, and
Expressions, Equation	s and Exponents.		

2054 ALGEBRA I 9-12 ACADEMIC Algebra I is a complete and comprehensive course aligned with the Pennsylvania Common Core Standards. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Foundations of Algebra, Solving Equations, Solving Inequalities, Introduction to Functions, Systems of Equations and Inequalities, Exponents and Exponential Functions Equations, Polynomials and Factoring, Quadratic Functions and Equations, Radical Expressions and Equations, Rational Expressions and Functions, Data Analysis and Probability. This course is designed for the student who is preparing for college and/or the workforce.

2055 ALGEBRA 1 PART A (FOUNDATIONS OF LINEAR ALGEBRA) ACADEMIC This course is aligned with the Pennsylvania Common Core Standards and covers the first year of a two year algebra course. The critical areas, called units, deepen and extend understanding of linear relationships and by applying linear models to data that exhibit a linear trend. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Foundations of Algebra, Solving Equations, Solving Inequalities, Introduction to Functions, Linear Functions, Systems of Equations and Inequalities. This course is designed for the student who is preparing for their future career.

2056 ALGEBRA 1 PART B (NON-LINEAR ALG with DATA ANALYSIS) ACADEMIC This course is aligned with the Pennsylvania Common Core Standards and covers the second year of a two year algebra course. The critical areas, called units, deepen and extend understanding of nonlinear and exponential relationships by contrasting them with each other and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Exponents and Exponential Functions Equations, Polynomials and Factoring, Quadratic Functions and Equations, Radical Expressions and Equations, Rational Expressions and Functions, Data Analysis and Probability. This course is designed for the student who is preparing for their future career.

**Placement into these courses is based upon performance in the student's 8th grade math class, CDT testing, teacher and administrator recommendation, as well as parental input.

MATHEMATICS DEPARTMENT ACADEMIC COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
2064	GEOMETRY	9-12	ACADEMIC

Geometry is a complete and comprehensive course aligned with the Pennsylvania Common Core Standards. Students will explore complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. The Mathematical Practice Standards apply throughout the course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Tools of Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Congruent Triangles, Relationships within Triangles, Polygons and Quadrilaterals, Similarity, Right Triangles and Trigonometry, Transformations, Area, Surface Area, and Volume, and Circles. This course is designed for the student who is preparing for college and/or the workforce.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

- 1. 80% or higher in 8th grade Algebra 1.
- 2. 9th grade students taking this course must pass the Keystone Algebra 1 Exam.

2074 ALGEBRA II 10-12 ACADEMIC Algebra 2 is a complete and comprehensive course aligned with the Pennsylvania Common Core Standards. It builds on the students' work with linear, guadratic, and exponential functions by introducing polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving guadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout the course and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Units of study will include Expressions, Equations, and Inequalities, Functions, Equations, and Graphs, Linear Systems, Quadratic, Polynomial, Radical, Exponential, Logarithmic and Rational Functions, Sequences and Series, Probability and Statistics, and Basic Trigonometric Functions. This course is designed for the student who is preparing for college.

2084 ALGEBRA III 11-12 ACADEMIC

This class is intended for the college-bound or technically oriented student. Topics of study will include quadratic functions, polynomial functions, exponential and logarithmic functions, rational functions, periodic and trigonometric functions, and probability and statistics. Graphing calculators will be an integral part of the course.

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

1. Algebra 2.

MATHEMATICS DEPARTMENT ACADEMIC COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
2203	COLLEGE ALGEBRA	12	ACADEMIC
This yearlong course is	intended for the student v	vho plans to attend colle	ege. The main objective of
this course is to teach s	students the skills necessa	ry to successfully comp	lete a College algebra
class. Topics of study	will include systems of ine	qualities, matrices and o	determinants, sequences,
series, and probability	and topics in analytic geom	netry.	
Prerequisite: Students	applying for admission to t	his course must satisfy	the criteria listed below.
1. 75% or higher	in Algebra 3.		

2205INTEGRATED MATH12ACADEMICThis course is intended for the senior who is interested in learning about personal finance. Course
topics include personal financial planning, budgets and balance sheets, careers and education,
paying taxes, understanding insurance, economic plans, personal credit and credit cards, personal
loans, banking procedures, methods of saving and investing.12ACADEMIC

Prerequisite: Students applying for admission to this course must satisfy the criteria listed below.

2309 ALGEBRA 1 KEYSTONE REMEDIATION 9-12 ELECTIVE

MANDATORY course for students who received a score of Basic or Below Basic on the Algebra 1 Keystone Exam.

This semester course will provide additional instruction in conjunction with Keystone Algebra 1 - Module 1, Operations and Linear Equations & Inequalities and Keystone Algebra 1 - Module 2, Linear Functions and Data Organizations. This course is intended to strengthen student performance levels by providing targeted in-depth instruction in Operations with Real Numbers and Expressions (A1.1.1), Linear Equations (A1.1.2), Linear Inequalities (A1.1.3), Functions (A1.2.1), Coordinate Geometry (A1.2.2), and Data Analysis (A1.2.3). Module 1's focus includes representing and/or using numbers in equivalent forms, applying number theory concepts to show relationships between real numbers in problem-solving settings, using exponents, roots and/or absolute values to solve problems, using estimation strategies in problem-solving situations, simplifying expressions involving polynomials, write, solve and/or graph linear equations and systems of linear inequalities using various methods. Module 2's focus includes analyzing and/or using patterns or relations, interpreting and/or using the rate of change (slope) of a line, analyzing and/or interpreting data on a scatter plot, using measures of dispersion to describe a set of data, using data displays in problem-solving settings, applying probability to practical situations.

Students will continue in this course on a semester basis until they receive a score of Proficient or Advanced on the Algebra 1 Keystone Exam. This course shall be taken concurrently with a student's regularly-scheduled Math course and will not substitute for Math credit required for graduation (see p. 3 and 4 for graduation requirements).

SCIENCE DEPARTMENT

In order to better prepare for the new Biology Keystone Exam, a change in course sequence will take place within the science department.

Beginning with the class of 2017 and on, proficiency on the Biology Keystone Exam is a State requirement.

BEGINNING WITH CLASS OF 2017 AND BEYOND:

- 9th GRADE: Biology (Honors/Lab, Academic/Lab, or Biology Part A)
- 10th GRADE: Chemistry (Honors/Lab or Academic/Lab), Chemistry-V, Biology Part B.
- 11th GRADE: Physics (Honors/Lab or Academic/Lab), Chemistry-V, Integrated Science-V.
- 12th GRADE ELECTIVES: Anatomy & Physiology (Honors/Lab or Academic/Lab), Honors Physics II/Lab, Honors Chemistry II/Lab, Honors Biology II/Lab, Human Body-V, STS-V, and Integrated Science-V. (These could be taken as 11th grade electives if students choose to "double up".)

SCIENCE DEPARTMENT HONORS COURSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3025	BIOLOGY I	9	HONORS*

This is an accelerated course and is designed for those students already enrolled in the Honors science program. It relies heavily on above average reading comprehension, laboratory and critical thinking skills. High expectations are placed on experimentation, reading, and writing that will enhance proficiency in the study of all levels of biological organization. This course will address the major themes of biology: biochemistry, cell structure and function, DNA and genetics, evolution, biodiversity, ecology, and environmental science. This course is recommended for students planning to pursue a career in the science field. This class meets 7 periods per 6 day cycle. PREREQUISITES:

- 1.
- A 90% average or higher in 8th grade science (for 9th graders) A 90% average or higher in 8th grade Algebra I (for 9th graders) 2.

*An 85% grade average must be maintained to continue in the Honors track.

3045 **CHEMISTRY I** 10-11 **HONORS*** This course is designed for the student who has a strong background in science and math. It will focus on the conceptual as well as mathematical view of chemistry. The topics to be investigated in depth will include the following: metric system, elements, atoms, mixtures and solutions, the periodic table, periodic trends, quantum numbers, electron configurations, chemical bonding, molecules, polarity, chemical nomenclature, chemical equations, stoichiometry, and kinetic theory. This class meets 7 periods per 6 day cycle.

PREREQUISITES:

1. A 90% in Biology I or 85% in Honors Biology I.

SCIENCE DEPARTMENT HONORS COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3035	PHYSICS I	11-12	HONORS*
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This course is designed to give the student a strong working foundation in the principles and theories of physics. Topics of study include: kinematics, work, power, energy, the structure of matter and thermodynamics. Emphasis throughout the course is placed on in-depth problem solving and data analysis. Successful completion of algebra I and geometry is recommended along with at least current enrollment in trigonometry. It is recommended for **ALL** students who plan to attend any four-year college, regardless of their intended major. This course meets 7 periods per 6 day cycle. **PREREQUISITES:**

1 A 90% in Biology I or 85% in Honors Biology I.

2 An 85% or better in Geometry.

3074PHYSICS II12HONORS*This course is designed as the second year of a two-year sequence in the study of physics and picks
up where Physics I left off. Honors physics II, in combination with Honors Physics I is designed to
parallel the development of physics in most collegiate programs. Physics II studies topics not
included in Physics I. Topics of study include: wave theory, sound, optics, electricity, magnetism
and astrophysics. A strong background in mathematics is required. This course meets 7 periods
per 6 day cycle.

PREREQUISITES:

1 A 90% in Physics I or 85% in Honors Physics I.

3014BIOLOGY II12HONORS*Honors Biology II is a rigorous course involving a deeper, more detailed examination of the topics
seen in a college freshman biology course. Students will study the following themes: structure,

function and biochemistry of the cell, photosynthesis and cellular respiration, DNA and RNA structure, Transcription and Translation, genetics, natural selection, population genetics, classification of organisms, and ecology. This course takes advantage of and extends a student's prior knowledge in biology and chemistry. Students will be expected to complete reading and writing assignments, lab reports, analyze data and literature to further understand the topics. This course meets 7 periods per 6 day cycle.

PREREQUISITES: A 90% in Biology I and Chemistry I or 85% in Honors Biology I and Honors Chemistry I.

3094CHEMISTRY II12HONORS*This course is intended for science-oriented students. This is a fast paced and challenging course
that requires students to utilize the information that they acquired in first year academic or honors
chemistry. The students are expected to understand chapter 1-10 from academic chemistry or
honors chemistry. Students are required to do independent learning. This course is a more
vigorous mathematical and problem-solving course compared to first year chemistry. Strong math
skills are needed. This course is lab-oriented. The following topics will be covered: stoichiometry,
reactions, bonding geometry of molecules, acids and bases, electrochemistry, organic chemistry,
solutions, kinetics, and gases. This course meets 7 periods per 6 day cycle.

PREREQUISITES: A 90% in Biology I and Chemistry I or 85% in Honors Biology I and Honors Chemistry I.

SCIENCE DEPARTMENT HONORS COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3084	ANATOMY & PHYSIOLOGY	11-12	HONORS*

Honors Anatomy and Physiology is a rigorous course that involves a more in-depth examination of the human body. Students will study the human body from the cellular level to the complete organism. The topics of study are as follows; anatomical terms, biochemistry of cells, tissues, integumentary system, skeletal system, muscular system, nervous system, special senses, endocrine system, blood, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, and reproductive system. Genetics, disease, nutrition and microbiology are approached in terms of the human organism. The total program is designed to stimulate student's involvement in lectures, class discussions, laboratory experiments and extensive dissection. The student will be required to analyze data and literature to complete multiple writing assignments and projects. This course meets 7 periods per 6 day cycle.

PREREQUISITES: A 90% in Biology I and Chemistry I or 85% in Honors Biology I and Honors Chemistry I.

SCIENCE DEPARTMENT ACADEMIC COURSES

The Academic program of studies represents the traditional, content centered Science Curriculum. The aim of these courses is to prepare students to meet the rigors of academic life in College Science Education. Academic Chemistry and Physics courses require one lab period per 6 day cycle.

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3044	BIOLOGY/LAB	9	ACADEMIC

This introductory course provides students with a solid foundation in scientific terminology, theories and concepts related to the study of living things. All levels of biological organization will be studied in this course. The main areas of study will include biochemistry, cell structure and function, DNA and genetics, evolution, biodiversity, ecology, and environmental science. Class lectures/discussions will be reinforced through imaginative, inquiry-oriented investigations, demonstrations, and audio-visual materials. This class meets 7 periods per 6 day cycle. PREREQUISITE: A passing grade in 8th grade Science.

3050 **BIOLOGY PART A** 9 ACADEMIC This course will focus on Module A of the Keystone Exam and topics include: characteristics of living things, comparison of cellular structure and function (prokaryotic/eukaryotic), levels of biological organization, unique properties of water, structure and function of biological macromolecules, enzyme regulation of biochemical cellular reactions, energy transformation in living things (photosynthesis/cellular respiration), comparison of cellular transport mechanisms, and maintenance of biological balance. This class meets 6 periods per 6 day cycle.

3051 **BIOLOGY PART B** 10

ACADEMIC This course will focus on Module B of the Keystone Exam and topics include: review of Module A material, stages of the cell cycle. comparing outcomes of mitotic and meiotic division, DNA replication, transcription and translation, relationships between DNA, alleles, genes, and chromosomes in inheritance, predicting outcomes of Mendelian and non-Mendelian patterns of inheritance, genetic mutations altering DNA and their impact within populations, genetic engineering, natural selection, population genetics, speciation, evidence for evolution, the scientific method, levels of ecological organization, energy flow through ecosystems (food chains/food webs), biogeochemical cycles, natural and human impact on ecosystems, and evolution of populations. This class meets 6 periods per 6 day cycle.

** Placement into these courses is based upon performance in the student's 8th grade science class, CDT testing, teacher and administrator recommendation, as well as parental input.

10-11

3054 CHEMISTRY/LAB

This course introduces the student to a scientific vocabulary, theories and the laws that are basic to an understanding of chemistry in our modern world. Both laboratory work and discussions are designed to familiarize the student with the composition of our world and the changes in composition that may or may not occur. The relationships of properties to structure are emphasized and concepts are examined mathematically whenever applicable. The topics to be investigated will include the following: metric system, elements, atoms, the periodic table, periodic trends, quantum numbers, electron configurations, chemical bonding, molecules, polarity, chemical nomenclature, chemical equations, stoichiometry, kinetic theory, and intro to organic chemistry. This class meets 7 periods per 6 day cycle.

PREREQUISITES:

- 1. Successful completion of Biology
- 2. Successful completion of Algebra I

ACADEMIC

SCIENCE DEPARTMENT ACADEMIC COURSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3064	PHYSICS	11-12	ACADEMIC

Concepts of Physics is designed to serve as a broad foundation using simple situations to answer questions involving physics in the everyday world, covering topics such as motion, force, energy, thermodynamics, optics, electricity and magnetism. Algebra is used to develop, test and explain models of phenomena to which the student has been exposed. This course is designed for the student who has a strong background in science and math. This course meets 7 periods per 6 day cycle.

PREREQUISITES:

- 1 Successful completion of Chemistry
- 2. Successful completion of Algebra I and Geometry

3101 ANATOMY & PHYSIOLOGY 11-12

This course provides the student with an in-depth study of the human body and how it functions. All facets of the human body are explored through cellular, tissue, organ and organ systems of the body. Genetics, disease, nutrition and microbiology are approached in terms of the human organism. The total program is designed to stimulate student's involvement in lectures, class discussions, laboratory experiments and extensive dissection.

ACADEMIC

PREREQUISITES: A 70% or better in Academic or Honors Biology and Academic or Honors Chemistry.

3201 FORENSIC SCIENCE 11-12 ACADEMIC

Forensic Science is the application of science to the legal system. Forensic science utilizes principles, facts, and lab techniques from the fields of chemistry, biology, physics and earth science to process crime scene evidence. This course is an interdisciplinary class involving biology, anatomy, chemistry, physics, and earth science with an emphasis in complex reasoning and critical thinking. In addition, students must incorporate use of technology, communication skills, language arts, mathematics and social studies. Students will be expected to complete reading and writing assignments. Topics will include an introduction to forensics (forensic history, careers, processing the crime scene), fingerprinting, documentation (handwriting, paper and ink analysis), biology, serology (blood typing genetics, spatter patterns), DNA, physical evidence (sand, soil, etc.), hairs and fibers, and ballistics. Mock crime scenes will be investigated and real case studies analyzed. This course meets 7 periods per 6 day cycle.

PREREQUISITES: Successful completion of Biology and Chemistry.

*FORENSIC SCIENCE will not be offered for the 2015-2016 academic year.

SCIENCE DEPARTMENT VOCATIONAL COURSES

The Vocational Science program of study is an alternative to the traditional, content-centered curriculum. The aim of these courses is to restructure science teaching and learning to meet the diverse needs of students who attend Forbes Road area CTC by delivering a solid academic foundation in Science within a restricted schedule. A student's ability to apply the process and products of science to their individual and collective existence is as important as the knowledge itself. Consequently, science information is presented with a new focus that is more relevant to the student's past experiences, present agendas and future needs.

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
3052	BIOLOGY-V	10-11	ACADEMIC

This course is designed to acquaint students with the fundamental concepts of life and living organisms. The focus will be to familiarize students with the basic building blocks of life, study of structure and function of cells, cell division, DNA structure and protein synthesis, heredity and genetics, evolutionary concepts, natural selection, interactions of ecosystems, and classification of living organisms. The course will also include an examination of environmental topics such as watersheds and wetlands, pollution and humankind's effects on the earth and living organisms and systems with an emphasis on Pennsylvania-specific case studies. This course meets 6 periods per 6 day cycle.

3112 CHEMISTRY-V 10-11 ACADEMIC This course introduces the student to a scientific vocabulary, theories and the laws that are basic to an understanding of chemistry in our modern world. Discussions are designed to familiarize the student with the composition of our world and the changes in composition that may or may not occur. The relationships of properties to structure are emphasized and concepts are examined mathematically whenever applicable. The topics to be investigated will include the following: metric system, elements, atoms, the periodic table, periodic trends, electron configurations, chemical bonding, molecules, polarity, chemical nomenclature, chemical equations, stoichiometry, kinetic theory, and intro to organic chemistry. This class meets 6 periods per 6 day cycle.

3122 INTEGRATED PHYSICAL SCIENCE-V 11 ACADEMIC

This course is designed to meet the needs of the technical student with a broad range of academic skills. These skills will be tailored to provide the needed technical knowledge base to meet the requirements of a post-high school technical institution. Emphasis will be on physical science (approximately 50% chemistry and 50% physics). This course meets 6 periods per 6 day cycle.

3132 HUMAN BODY-V 12 This course provides the student with an in-depth study of the hun

This course provides the student with an in-depth study of the human body and its systems. The human body is explored on a cellular, tissue, organ and system level, with emphasis on the body systems. Genetics, disease, nutrition and microbiology are approached in terms of the human organism. The program is designed to give students a basic awareness of the make-up and function of the human body and its systems. Student involvement in lectures and class discussions will be encouraged. This course meets 6 periods per 6 day cycle.

ACADEMIC

PREREQUISITES: Must have completed 3 prior Science Courses.

3142 SCIENCE, TECHNOLOGY 12 ACADEMIC AND SOCIETY-V 12 ACADEMIC

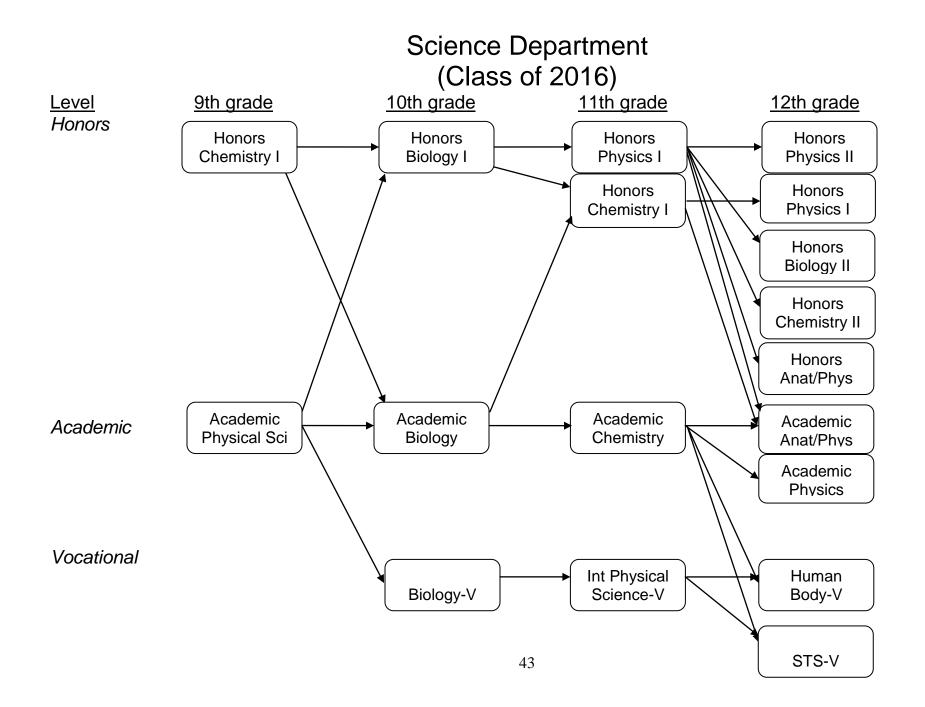
This course will introduce students to the relationships that exist between science, technology, and society. Emphasis will be placed on how new developments and research impact the choices we make. This course will focus on a review of topical literature, which will be discussed from a scientific perspective and societal impact. This course meets 6 periods per 6 day cycle. **PREREQUISITE:** Must have completed 3 prior Science Courses.

SCIENCE DEPARTMENT KEYSTONE REMEDIATION COURSES

COURSE NO.COURSE NAMECOURSE TYPE3300BIOLOGY KEYSTONE REMEDIATIONELECTIVEMANDATORY course for students who received a score of Basic or Below Basic on ModulesA and B of the Biology Keystone Exam.

This "non-lab" semester course will provide additional biology instruction in conjunction with Biology Modules A and B. This course is intended to strengthen student performance levels by providing targeted in-depth instruction on Basic Biological Principles (BIO.A.1), Chemical Basis for Life (BIO.A.2), Bioenergetics (BIO.A.3), and Homeostasis and Transport (BIO.A.4), Cell Growth and Reproduction (BIO.B.1), Genetics (BIO.B.2), Evolution (BIO.B.3), and Ecology (BIO.B.4).

Students will continue in this course on a semester basis until they receive a score of Proficient or Advanced on Module A of the Biology Keystone Exam. This course shall be taken concurrently with a student's regularly-scheduled Science course and will not substitute for Science credit required for graduation (see p. 3 and 4 for graduation requirements).



Science Department (Class of 2017 and beyond) 9th grade 10th grade 11th grade 12th grade Level Honors Honors Honors Honors Honors Biology I Chemistry I Physics I Physics II Honors **Biology II** Honors Chemistry II Honors Anat/Phys Academic Academic Academic Academic Academic Physics Anat/Phys Biology Chemistry Option 3 Int Physical Human Biology-B Biology-A Science-V Body-V STS-V

WORLD LANGUAGE DEPARTMENT SPANISH

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE	
4004	SPANISH I	9-12	ELECTIVE	
This course is designed for beginning students to develop skills in listening, speaking, reading and writing. Students will interact both with each other and the available technology to practice vocabulary, grammatical constructions, idiomatic expressions and comprehension. Students will also have the opportunity to discover various aspects of the culture through the use of multi-media.				
listening, conve	ersational and comprehensior		ELECTIVE oon working toward increasing ences will be provided through ill be further developed.	

4024 SPANISH III 11-12 ELECTIVE Spanish III continues to develop comprehension, listening, speaking, reading and writing skills. Advanced grammar constructions will be introduced and practiced. Literary selections will be utilized to promote skills and further cultural understanding. More cultural experiences will be provided through the use of multi-media.

4034 **SPANISH IV** 12 At this advanced level, communication skills will be emphasized. Survival skills in the target language will be developed. This course will combine all elements of foreign language study to promote a high level of oral proficiency. Students will be expected to work independently with available technology. PREREQUISITE: Students must have a grade of 80% in Spanish III and/or receive a teacher recommendation to enroll in this class.

45

ELECTIVE

WORLD LANGUAGE DEPARTMENT FRENCH

<u>COURSE NO.</u>	COURSE NAME	GRADE	COURSE TYPE	
4044	FRENCH I	9-12	ELECTIVE	
This course is designed for beginning students to develop skills in listening, speaking, reading and writing. Students will interact both with each other and the available technology to practice vocabulary, grammatical constructions, idiomatic expression and comprehension. Students will also have the opportunity to discover various aspects of the culture through the use of multi-media.				
listening, conve		kills. More cultural expe	ELECTIVE upon working toward increasing eriences will be provided through will be further developed.	
4064	FRENCH III	11-12	ELECTIVE	
French III conti	nues to develop comprehension,	listening speaking readi		
grammar const	ruction will be introduced and pra ural understanding. More cultura	acticed. Literary selections	s will be utilized to promote skills	
4074	FRENCH IV	12	ELECTIVE	
At this advance	ed level, communication skills wil	Il be emphasized. Surviva	al skills in the target language	

will be developed. This course will combine all elements of foreign language study to promote a high level of oral proficiency. Students will be expected to work independently with available technology. **PREREQUISITE: Students must have a grade of 80% in French III and/or receive a teacher recommendation to enroll in this class.**

COMPUTER CLASSES

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
5211	WORD &	9-12	ELECTIVE
	POWERPOINT I		
	(SEMESTER COURSE)		

Introduction to Microsoft Word and PowerPoint. Topics include:

- 1. Word
 - a. Creating and Editing a Word Document
 - b. Creating a Research Paper
 - c. Creating a Cover Letter and a Resume
- 2. PowerPoint
 - a. Creating and Editing a Presentation
 - b. Creating a Presentation with Illustrations and Shapes

All students are encouraged to take this course.

WORD &

5212			
This cou	irea ie	a con	tini

10-12

ELECTIVE

POWERPOINT II (SEMESTER COURSE)

This course is a continuation of Word and PowerPoint I. Topics include:

- 1. Word
 - a. Creating a Document with a Title Page, Table, Chart, and Watermark
 - b. Generating Form Letters, Mailing Labels, and Directories
 - c. Creating a Professional Newsletter
- 2. PowerPoint
 - a. Creating a Presentation with Custom Backgrounds and SmartArt Diagrams
 - b. Working with Information Graphics

Prerequisite: 70% or higher in Word & PowerPoint I

5213

WORD & 11-12 POWERPOINT III (SEMESTER COURSE) ELECTIVE

This course is a continuation of Word and PowerPoint II. Topics include:

- 1. Word
 - a. Working with Document Sharing Tools
 - b. Creating an Outline Form
 - c. Enhancing an Online Form and Working with Macros, Document Security, and XML
- 2. PowerPoint
 - a. Reusing a Presentation with Multimedia
- b. Creating a Self-Running Presentation Containing Animated Shapes

Prerequisite: 70% or higher in Word & PowerPoint II

COMPUTER CLASSES (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
5214	EXCEL & ACCESS I	9-12	ELECTIVE
An introduction to Mic 1. Excel	(SEMESTER COURSE) crosoft Excel and Access. Topics i	include:	
	ting a Worksheet and an Embedd	ed Chart	
	ulas, Functions, Formatting, and		
	-If Analysis, Charting, and Workin	ng with Large Worksheets	
2. Access	ting and Using a Database		
	ying a Database		
	taining a Database		
Prerequisite: Algeb	ra I		
5215	EXCEL & ACCESS II (SEMESTER COURSE)	10-12	ELECTIVE
1. Excel	nuation of Excel and Access I. To		
	ncial Functions, Data Tables, and		
	ting, Sorting, and Querying a Tabl ting Templates and Working with		books
2. Access			
	ting Reports and Forms		
	-Table Forms g Macros, Switchboards, PivotTab	los and BivotCharts	
	r higher in Excel & Access I	nes, and FivolChaits	
•	-		
5216	EXCEL & ACCESS III (SEMESTER COURSE)	11-12	ELECTIVE
This course is a conti 1. Excel	nuation of Excel and Access II. To	opics include:	
	Macros and Visual Basic Applica		
	ula Auditing, Data Validation, and rting Data, Working with PivotCha		26
2. Access	Tung Data, working with hotona		55
	nce Report Techniques		
	nce Form Techniques		
	nistering a Database System r higher in Excel & Access II		
5047		40.40	
5217	WEB DESIGN (SEMESTER COURSE)	10-12	ELECTIVE
	offers a comprehensive presenta		
	eb site design and management to		
	Web sites suitable for coursework exercise-oriented approach that		
	pace and a domain and will be red		
project.			

TECHNOLOGY EDUCATION DEPARTMENT

Technology is a part of EVERYTHING we do in life. People can travel to outer space, receive transplanted parts to their bodies and live better and longer due to advancements in modern technology. Technology is using knowledge, tools, and skills to increase our potential, to solve problems, and to modify our world.

Technology education teaches four areas of technology important to our society: communications, manufacturing, transportation and construction. Unique opportunities are provided for students to gain experience in problem solving, skill and processes, as well as personal and social growth.

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
6501	TECHNOLOGY EDUC	ATION I 9-12	ELECTIVE
	(SEMESTER COURSE)		

This semester course is designed to introduce the student to the four areas of Technology Education (Tech.Ed). The four areas are Communications, Transportation, Construction, and Manufacturing. The communications section will cover measuring and design using basic drafting principles. Students will understand the design process and be able to make drawings in the obligue and prospective styles. The **transportation** section students will explore the various modes of transporting humans and goods. Research will be done on the various modes and students will use this data to produce models of that type of transportation system.

The construction section will focus on the various structures and the forces that work against structural materials. Students will construct and test small models of a few of these structures. Data will be recorded and reports will be made on how to improve these structures.

The manufacturing section of the course will deal with the tools materials and processes used in the woodworking industry. Students will gain hands on experience using hand tools and machines to complete a few small woodworking projects.

10-12

(SEMESTER COURSE) This semester course is designed to improve the skills obtained in Tech.Ed.I. Emphasis will be placed on students developing their ideas into plans for making new products. Students will work individually and in groups to design, develop, and construct projects in all four areas of technology. Modern techniques of working with wood and wood products will be explored as well as developing the student's ability to become more proficient at problem solving activities. Students will gain experience on setting up an assembly line and mass producing a project as well as being able to create a self-designed project.

PREREQUISITE: Passing Tech.Ed. I

TECH.ED. II

6511

6521 PRODUCT DEVELOPMENT/TECH.ED. III 11-12

In Tech. Ed. III, students will use skills learned in tech Ed 1 and 2 to construct a Grandmother Clock, new machines, and advanced techniques will be utilized in the construction of the project. Students will also be able to make some individual projects on their own upon completion of the clock. They will research projects on their own and provide a detailed plan for any future projects, which they can make during the remainder of the school year.

PREREQUISITE: Passing Tech. Ed. I & II

ELECTIVE

ELECTIVE

TECHNOLOGY EDUCATION DEPARTMENT (CONT.)

COURSE NO. COURSE NAME GRADE COURSE TYPE 6531 ROBOTICS AND 9-12 ELECTIVE COMMUNICATION TECHNOLOGY (SEMESTER COURSE) (SEMESTER COURSE) COURSE TYPE

Communication Technology

Communication is the process of sending and receiving a message. Students will become familiar with the technological advances in this field. Emphasis will be placed on working with electrical circuitry and simple house wiring. Students will also explore the innovations in the communication technology, which includes fiber optics, the microchip and other new telecommunication systems.

Students will also work on computers. Students will disassemble a computer to learn about the different parts and how they function. They will then reassemble the computer. Basic troubleshooting as well as upgrading will be discussed.

Robotics Technology

Robots are a fast growing area of interest and students will be able to learn about different robots and how they function with hands on use of various robots and robotic devices. Students will learn basic programming of robots using the VEX robots and RobotC programming language. Many different robots will be constructed and programmed to complete various tasks and objectives, ipads and Nexus tablets will be used to control robots, drones and quad copters.

Students will become familiar with the newest types of transportation used today. These will include automated guided vehicles (AGV'S), electric cars, and hovercrafts. Students will construct a compressed air racecar and build and launch a model rocket. Other problem solving activities will also occur in class.

6541 DRAFTING/COMPUTER- 9-12 ELECTIVE DRAFTING/DESIGN (SEMESTER COURSE)

This semester course is designed to introduce the fundamentals of drafting to the beginning student. Various ways to communicate ideas graphically by means of lines, shapes, symbols and other conventional indications are studied. This is a language universally used in our technological society. A basic breakdown of the course includes the ability to develop free hand sketching, lettering, mechanical drawing, geometry of technical drawing, views of an object, dimensioning, working drawings, pictorial drawings and 2-point perspective drawing. The student uses as aids the basic tools of the draftsman (T-square, triangle, ruler, etc.) and learns about mechanical drafting styles.

Students will take part in different activities such as bridge designing and building as well as other projects to aid in their learning of structure and design. Students will also be given the basic hands-on use with a CAD System. While using the equipment and constructing the drawings, he/she learns about industrial materials and the processes of their production as used in the world about us including the home, school and industry.

TECHNOLOGY EDUCATION DEPARTMENT (CONT.)

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
6571	ARCHITECTURAL DRAFTING	9-12	ELECTIVE
	(SEMESTER COURSE)		

This semester course is designed to give the students experience in the building design process, creating drawings of commercial buildings as well as residential. Students will learn how to draw various types of floor plans and include furniture and fixtures as well as outdoor things such as trees, shrubs and other landscaping. Students will also make elevation views of all four sides of the building to show what they would look like from that side of the building.

Students will then learn how to cost estimate the materials and labor for the building job. Computer aided drawing programs will then be used to allow the student to go through the entire drawing process with the aid of the computer and compare the two different ways of completing this process, both by hand and with the use of a CAD program. Students will also design and build a wood bridge to learn about construction skills and engineering.

ART DEPARTMENT					
COURSE NO.	COURSE NAME	GRADE	COURSE TYPE		
7001	FINE ARTS (SEMESTER COURSE)	9-12	ELECTIVE		

This course is designed for all first year art students and is the essential step toward future art courses. Basic drawing skills designed to aid in better ways of seeing are stressed with emphasis on eye-hand coordination. Line, value, perspective and composition are explored in a series of exercises. A wide variety of procedures and approaches are introduced. Fine Arts will cover two-dimensional (drawing, painting) and three-dimensional (sculpture) in order to encourage experimentation with different media and to learn how to effectively use the natural creativity we all possess.

7005	CRAFTS & CULTURES	9-12	ELECTIVE
	(SEMESTER COURSE)		

Crafts and Cultures is an introductory course designed to open up an exploration of the rich arts and crafts developed by and strongly identified with major cultures of the world. Students will gain skill in creating crafts such as jewelry-making, basket-making, print-making and weaving while gaining an understanding of the origins and purposes of each craft form.

7011 ADVANCED FINE ARTS 10-12

Advanced Fine Arts is sequentially organized to allow a progression from Fine Arts to more complex techniques, materials and projects. This course encourages the development of skills, perception and visual problem solving. Process and development of ideas in two and three-dimensional forms will be stressed. Students will develop a portfolio of art work for entrance into art school and scholarship opportunities.

ELECTIVE

Prerequisite: Fine Arts course required with a grade of C or above or the submission of 4 works of art to be approved by instructor.

7015 CRAFTS & CULTURES II 10-12 ELECTIVE (SEMESTER COURSE)

This class is designed to further explore crafts of specific cultures. Students will complete large-scale weaving, print making, and jewelry projects. Process and development of crafts are based on in-depth studios in specific cultures.

Prerequisite: Crafts & Cultures course required or the submission of 3 works of art to be approved by instructor.

7021STUDIO ART I11-12ELECTIVE

Studio is an art college or art school preparatory course with a focus on students attaining the highest levels of skill and creative thinking in order to produce scholarship worthy art. All students are required to register for art scholarship competitions. Studio Arts is sequentially organized to allow a progression from skills learned in Advanced Fine Arts to highly creative and complex techniques, materials and projects. At the end of the first nine week period students in Studio II may choose to continue class projects including murals or create a highly individualized learning path into a single art area such as painting. Students are expected to develop a portfolio of work due at the conclusion of the course.

Prerequisite: Advanced Fine Arts course is required or submission of 4 works of art to be approved by instructor.

7022STUDIO ART II11-12ELECTIVEThis course is designed for the student that has completed both fine arts courses and the studio arts
course (pre-requisites). Students selecting STUDIO II will create a highly individualized learning path in a
single art area such as painting. They will further develop and enhance a visual portfolio of works.

Prerequisite: Advanced Fine Arts and Studio courses are required or submission of 8 works of art to be approved by instructor.

ART DEPARTMENT (CONT.)

COURSE NO. **COURSE NAME COURSE TYPE** GRADE **CERAMICS & SCULPTURE I** 7031 9-12 ELECTIVE (SEMESTER COURSE)

Ceramics and Sculpture explores the capabilities of the uses of clay and its decorative properties as well as sculpture in varied materials from papiér maché, cardboard, plaster, clay etc. Exploration of various materials will enable students to create three-dimensional art forms. This course will focus on developing skills in wheel throwing and hand-building.

7041 **CERAMICS &** 10-12 ELECTIVE **SCULPTURE II**

Students will use basic techniques, tools, materials and previously acquired skills to extend and enhance their ability and knowledge of ceramics and sculpture. Solving problems, experimentation and refinement of forming, throwing on the wheel and construction of three-dimensional works will be explored in the advanced study. Surface design and glazing experimentation will be emphasized.

Prerequisite: Ceramics and Sculpture or approved submission of 3 pieces of ceramic work.

CERAMICS & SCULPTURE III 11-12 7051

GRAPHICS I

7061

Students will be challenged to make technically more difficult 3-D works while being introduced to new materials (slips, stains, metal and glass). There is a strong focus on the ideals of perfecting a skill, independent work, and professionalism.

9-12

(SEMESTER COURSE) This course offers a basic introduction and overview to Graphic Communications. Through the first guarter, fundamental principles of computer layout and design will be explored using Adobe Photoshop software. The second half will include glass etching design and airbrushing. Some of the project areas include Photoshop computer projects, plastic dye-sublimation (keychain/mini license plate design), glass etching, t-shirt airbrush design. A complete portfolio will be maintained in this course.

GRAPHICS II 7071 10-12 ELECTIVE (SEMESTER COURSE)

Students will continue the studies of Graphic Communication areas covered in Graphics 1, utilizing more advanced methodology and theory. Some of the areas introduced will include digital photography, video production and green screen technology. Some project areas include numerous photography projects, radio commercial, sales pitch advertisements, music video, and lip dubs. Various media types will be introduced such as screen printing design (T-shirt/textile printing), banner design and printing plus a more in depth look at dye-sublimation (mugs, license plates, plastics printing) Adobe Photoshop/Illustrator and Pinnacle Studio computer software will be utilized in this course to reinforce computer skills. A complete portfolio will be maintained in this course.

Prerequisite: Graphics 1 course required with a C or higher.

7081 **GRAPHICS III** 11-12 **ELECTIVE** This third level course will permit students to practice, apply and utilize their Graphic Arts I and Graphic Arts II skills and experiences through the demands of a production shop and assigned project work. Students will apply previously learned skills to actual school district production jobs. This class will simulate a real work environment permitting students to experience the demands and satisfactions of the graphic arts field. Advanced digital graphic design applications will also be introduced and explored in this class. A portfolio and journal of all work will be maintained in this course.

Prerequisite: Graphics I, Graphics II courses required with a C or higher

ELECTIVE

ELECTIVE

MUSIC DEPARTMENT

COURSE NO.	COURSE NAME	GRADE	COURSE TYPE
7501	HIGH SCHOOL BAND	9-12	ELECTIVE

This course is both elective and selective. It teaches advanced mechanics and fundamentals of music through rehearsals and performances. This ensemble teaches a strong musical language that provides the student with an advanced understanding of musical concepts, enhancing the student's abilities on the instrument of study. Active participation can direct the student to a vocation in music or related areas. The ensemble does a variety of performances. In the fall, the band supports the Varsity football team at all games and pep rallies. It also participates in community parades and several band competitions. In the winter and spring, the band performs at in and out of school concert events. Active participation will give members additional performance opportunities through PMEA District, Region, and Honors band.

The band is an all-inclusive ensemble. Students are required to participate in *ALL* marching and concert band activities. This includes in/out of school rehearsals and performances. Grading criteria will include participation in rehearsals and performances, playing auditions, and advancement on instrument of study.

In the event that a student has a practice conflict with another East Allegheny extra-curricular sport, the student will be expected to split the practice time as much as possible. If it is a game/performance conflict, alternate plans will be made available. No student will be expected to miss a game for ANY rehearsal.

7511 ORCHESTRA 9-12 ELECTIVE This offering is both elective and selective. It teaches advanced techniques, mechanics, and

fundamentals of music through live performance, in order to develop the student's playing ability. At the same time, it teaches a musical language which gives the student a deeper understanding of music. Active participation in this course can direct the student to a vocation or avocation in music or related areas. This performing group provides in and out of school concerts and plays a major role in the annual musical.

Since the orchestra is a performing group, extra rehearsals are called as needed. Students are required to attend these rehearsals and all performances.

7521 CONCERT CHOIR 9-12 ELECTIVE

This course is both selective and elective and is intended for students with prior singing experience. Students will work together as an ensemble to develop an appreciation for choral singing, music, and the arts in general. A wide variety of music from various cultures, time periods, and genres will be used to teach students to sing with proper vocal technique and musicality. Additionally, students will focus on mastering foundations of music theory/literacy and developing aural skills through the use of solfege.

The choir is a performing ensemble and students will be expected to attend a minimum of 5 performances a year: 3 concerts, Baccalaureate, and Commencement. Students will also be expected to attend a few after school rehearsals throughout the year in preparation for these performances. Attendance at these concerts/performances is mandatory and will comprise the majority the student's grade. Other grading criteria include individual vocal evaluations, written tests, and daily participation.

7522 CHORUS 9-12 ELECTIVE This course is intended for the beginning singer. This course teaches basic techniques, mechanics and fundamentals of music through live performance. The students work together as an ensemble to develop

an appreciation for choral singing, music and the arts. A wide variety of music from various cultures, time periods, and genres will be used to teach students to sing with proper vocal technique and musicality. Students will explore the basic foundations of music theory/literacy and begin to develop aural skills through the use of solfege. The choir is a performing ensemble and **students will be expected to attend a minimum of 5 performances a year: 3 concerts, Baccalaureate, and Commencement.** Students will also be expected to attend a few after school rehearsals throughout the year in preparation for these performances. Attendance at these concerts/performances is mandatory and will comprise the majority of the student's grade. Other grading criteria include individual vocal evaluations, written tests, and daily participation.

COURSE NO.	SESSION	GRADE	STATUS
8012	FIRST SESSION—AM 7:15-10AM	10,11	HALF-DAY
	(Only for new admissions	s, first time attending)	
8022	SECOND SESSION—PM 10AM-1PM	11,12	HALF-DAY
	(Only for students who	previously attended)	
8032	THIRD SESSION—PM 7:15AM-1PM	11,12	FULL-DAY
	<u>(Only for students with sp</u> Forbes Road after completin		

FORBES ROAD CAREER AND TECHNOLOGY CENTER



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Architecture/Construction

Building Construction TechnologyCIP 46.9999 Building Construction Technology students gain technical knowledge as well as practical hands-on training in the trade which includes carpentry, plumbing, electrical, masonry and blueprint reading. Individuals learn to apply technical knowledge and skills in the maintenance and repair of residential and commercial buildings.

Heating, Ventilation & Air Conditioning......CIP 47.0201 The program trains students to become qualified HVAC technicians and mechanics. A major portion of the instruction focuses on how to install, diagnose, service and maintain residential and commercial control wiring of HVAC systems.

Electrical TechnologyCIP 46.0399 Electrical Technology prepares students for entry level electrical and electronics careers. Their technical applications include green technology instruction within this state-of-the-art electrical laboratory. Computerized training equipment is utilized to prepare the students for careers in the "high-tech" electrical field.

Landscape DesignCIP 01.0601 Landscape Design prepares students to be employees of nurseries, greenhouses, florists or landscape businesses. The curriculum includes turf management, landscape design and safety, pest and disease management and irrigation. Students obtain practical skills on our 42 acre campus and in the new greenhouse.

Health Careers/Law Enforcement

Emergency Response ServicesCIP 43.9999 This program is for students interested in pursuing a career, volunteer service or post-secondary education in emergency medical, law enforcement, fire or emergency management services. ERS provides training in a fully equipped lab including a fire tower and fire truck.

Health Science TechnologyCIP 51.0899 This program provides students with the hands-on training necessary to offer care to patients while working alongside other qualified health care professionals. Students will be taught basic nursing skills, Anatomy & Physiology and care of the patient with common diseases. CPR, First Aid, Bloodborne Pathogens and Direct Care Staff Worker are certifications that the students may obtain.

Information Technology

Advertising DesignCIP 50.0402 The field of advertising and commercial art requires a person who possesses a wide range of creative skills. The curriculum includes the foundation for all creative/design fields. Students apply the design principles to create a variety of products and printed materials - to reach and compel the target audience to purchase products and services.

Computer Networking & SecurityCIP 11.0901 This exciting technical course prepares students to design, maintain and secure today's Information Technology (IT) Systems. Network Security Specialists acting as Ethical Hackers prevent data loss from cyber-attacks protecting valuable data. Network Security Specialists are in demand in Law Enforcement, corporations and government.

Multimedia Design......CIP 11.0801 This program allows students to be creative with design presentations for entertainment, industrial and commercial applications. This curriculum utilizes digital/video cameras and projectors in conjunction with computers. Students create animations, manipulate photographs, create presentations and web pages.

Manufacturing

Advanced Manufacturing NEW NAMECIP 48.0501 Advanced Manufacturing is a high paying field that requires both technical knowledge and hands-on training. Students will read blueprints, cut, shape, and finish metal products on state-of-the-art computer controlled machines. Student projects include making motorcycle parts, race car parts, machinist tools and combat robots.

Service Occupations

Baking & Pastry Arts NEW PROGRAM......CIP 12.0501 This course provides students with the basic skills needed for entrylevel employment in the baking field. Students will prepare baked goods, perform cake decorating and gain banquet experience. Students have the opportunity to obtain the Serv-Safe certification.

CosmetologyCIP 12.0401 This program builds skills for a variety of careers within the cosmetology industry. The course includes skills in hair, skin and nail care as well as salon procedures. Upon completion of the required hours, students will be eligible to take the PA State Boards.

Culinary Arts......CIP 12.0508 The Culinary Arts course offers instruction in the commercial restaurant industry including: gourmet and fine dining, customer service, menu planning, cost-control, sanitation and hygiene. The curriculum encompasses the complete food cycle including nutrition, ordering processes, menu design and presentation skills.

Early Childhood Education NEW NAME......CIP 19.0708 The course encompasses all phases of early childhood development including physical, social, emotional and intellectual. The curriculum also includes nutrition, guidance, discipline, the value of play and the science of child development.

Transportation

Automotive TechnologyCIP 47.0604 Automotive Technology provides instruction covering a wide range of skills for the high-tech automotive industry. This includes engines, computer diagnostics, maintenance, repair and the opportunity to earn a PA State Inspection and Emissions Certification.

Collision Repair TechnologyCIP 47.0603 The program provides the skills necessary to transform a wrecked vehicle into a masterpiece. Students receive instruction with state-ofthe-art equipment for replacing or repairing auto body parts. Students learn to customize vehicles with painting techniques.

Warehouse ManagementCIP 52.0203 This program will actively engage students in the process of receiving, storing, shipping, controlling and distributing products. Students will use conveyors, hand trucks and carts to transport materials/supplies. They will work in the Forbes shipping and receiving department.

Ninth Grade Exploratory Program

Ninth Grade Exploratory program begins with a two week session in Career Exploration. Students will then participate in four programs including safety, theory and lab areas.

HEALTH & PHYSICAL EDUCATION DEPARTMENT

The Health and Physical Education Program is designed to provide students with knowledge to help acquire a lifestyle that promotes personal health and well being throughout life. The Health and Physical Education Department understands the importance of instilling in each student the fact that his/her own health is dependent upon the lifestyle choices that he/she makes. We feel confident that our curriculum provides students with the information needed to make educated decisions that will lead to a healthy life.

The Health and Physical Education Program at East Allegheny Senior High School is a diversified activity-based program that has been designed to encompass the interest, capabilities and limitations of all students within the school system. Because Physical Education is an activity-based course, students are required to be present to earn their grade. Therefore, students must be present no less than 65% of the time to pass. Students who have missed more than 65% of their Physical Education (including Swimming) will fail the quarter. The only exemption would be students who are medically excused. Activities are designed to allow students to safely and successfully engage in sports and physical fitness activities that encourage knowledge, skills and interest in personal and physical health throughout their lives.

Students enrolled in Pennsylvania schools are required by school law to participate in courses of instruction in Health and Physical Education.

SCHEDULING IN PHYSICAL EDUCATION

9th Grade Health and Physical Education

Ninth grade students will engage in Health activities for one quarter that focus on the following subject matter: tobacco, alcohol, and chemical abuse (as per ACT 211), conflict resolution, decision making, character development, healthy relationships, abstaining from high risk behaviors, stress management, hygiene, first aid, nutrition, and weight management. The topics discussed in class are not limited to the ones listed above. The teacher reserves the right to alter lessons to best meet the needs of the students. All lessons will be driven by the National Standards for Health Education along with the Pennsylvania State Standards.

Aquatics Component of the Physical Education Program

As part of the regular Physical Education program, students will be required to participate in swimming. Instruction on the skills in addition to skills practice will be provided during class. Students will demonstrate their skill aptitude in aquatics while testing out of a swimming skills test. This test is a modified skills test incorporating skills from the Level I, Level II and Level III American Red Cross Water Safety Instruction skills assessments. Students who fail to pass out or students who do not participate in swimming will not be allowed to select their physical education activities and will remain in swimming until the swimming requirements are met.

As part of the Physical Education program, all students in grades 9 through 12 will have the opportunity to select from pre-determined sports or physical activities during each nine weeks (selection is dependent upon the space that is available for each activity) for a total of two activities each nine weeks. The students will be assigned to an instructor who will teach from the following areas:

TEAM SPORTS Basketball Flag Football Gym Hockey Soccer Softball Team Handball Volleyball Ultimate Frisbee Mat Ball Hot Ball INDIVIDUAL SPORTS Bocce Aquatics Four Square Badminton Fitness Table Tennis Track and Field Indoor Horseshoes

Students will also be required to participate in a fitness component as included in the regular Physical Education program. The fitness component will include various fitness activities and fitness games as well as setting fitness goals.

MEDICALLY EXCUSED STUDENTS

When a physician indicates that a student must be excused from a specific activity, an attempt will be made to place him/her in another activity, with the physician's approval. Additionally, students who are medically excused from Physical Education are not permitted to participate in athletics for the duration of the medical excuse. Students who are medically excused from Physical Education may be required to complete a written project pertaining to Health and Physical Education. Upon completion of the assigned project(s), the student's work will be evaluated and the grade earned will be the student's grade for Physical Education.

When a physician indicates that a student must be excused from swimming classes, that student may be assigned written projects pertaining to aquatics. Upon completion of the assigned project(s), the student's work will be evaluated and the grade earned will be the student's grade for swimming. If a written project is not assigned, students will receive an "X" on their report card.

When a student is able to return to physical education, a physician's medical release must be presented to the physical education teacher before any activity will be permitted.