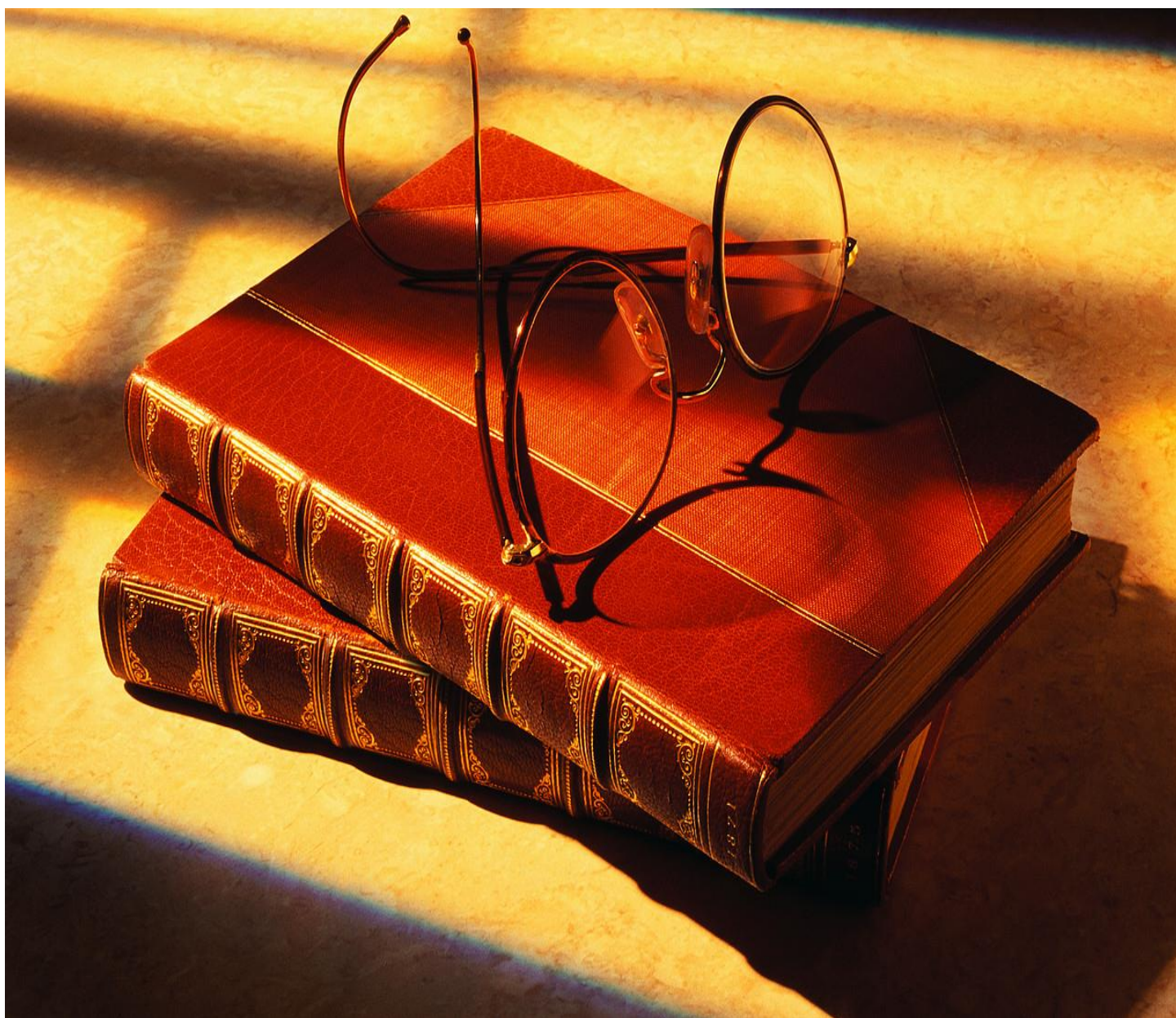


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# **OSWAYO VALLEY HIGH SCHOOL COURSE DIRECTORY**

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**School Year: 2019–20**



## ACADEMICS.....

Planning a program of study for successful completion of graduation requirements should involve careful consideration by the student and parents, and should be made on the basis of a student's interest, abilities, and career goals. It is advisable to work closely with the guidance department in the selection of courses. Students enroll in courses via the Student/Parent Portals.

Some instructional areas such as art, music, family and consumer sciences, and technical education require the use of materials which are to be purchased by the student.

### HIGH SCHOOL PROGRAM

#### Student Classification

Grade level courses should be taken in the sequence in which they are offered.

- a. To be classified as a **freshman** (9th grade), a student must successfully complete eighth grade.
- b. To be classified as a **sophomore** (10<sup>th</sup> Grade), a student must have accumulated a minimum of six (6) credits prior to the start of the school year.
- c. To be classified as a **junior** (11<sup>th</sup> Grade), a student must have accumulated a minimum of thirteen (13) credits prior to the start of the school year.
- d. No student shall be considered a member of the **senior** class (Grade 12) unless the student has, prior to the start of the academic senior year, a sufficient number of credits which added together with number of credits being taken during the student's senior year would make the student eligible to graduate at the next commencement ceremony.
- e. Students failing to meet the graduation requirements have one (1) year from the date of their class graduation to complete the requirements for an Oswayo Valley Diploma. (Example: summer school).
- f. The administration reserves the right to assign students to a grade level classification based on individual circumstances.

#### Graduation Requirements

To graduate from Oswayo Valley Middle School/High School, a student must successfully complete the requirements of their individualized educational program and/or the following:

##### a. STATE TESTING

Students, starting with the Class of 2020, must demonstrate proficiency on the Keystone Exam in the areas of Algebra I,

Literature (English 10) and Biology I. Exams are given in the spring of the year in which a

student completes the course. Students will be required to retake assessments in the following school year for any subject area not proficient the previous spring. Identified special needs students will be required to fulfill the academic requirements outlined in their IEP.

##### b.. CREDIT REQUIREMENTS

- (1) A high school diploma will be presented to students meeting the following (Minimum) course credit requirements:

English.....	(4 credits)
Social Studies.....	(4 credits)
Math.....	(4 credits)
Science.....	(4 credits)
Health/Phys. Ed. ....	(2.4 credits)
Electives .....	(Equivalent to meet total 27 credits)
Total.....	Equal or exceed 27 Credits

#### Course Changes / Drop Policy

Course selection should be a firm decision which is thoughtfully made by students after careful consultation with parents, teachers, and counselors. Prior successes, failures, special individual interests, aptitudes, and future college and career plans should be taken into consideration when a student plans a career path.

Final schedules will be made available during the summer months via the portal. Requests for schedule changes will be granted only under certain circumstances and must be done within the add/drop window in the first days of school.

#### Grading System

##### a. REPORT CARDS

- (1) Report cards are issued at the end of each nine week marking period.
- (2) At the end of each school year, all books must be returned and any other unfinished school business must be taken care of in a proper manner before the final report card will be issued.

##### b. CUMULATIVE AVERAGE

- (1) The cumulative average is a procedure for calculating a student's scholastic average on a scale of 0 to 100. It represents an average for the final grades earned

where credit is given for subjects taken. The cumulative average begins with courses taken in the ninth grade. Students who transfer in from other schools will bring with them their current school average.

- (2) Each course is assigned a value, called credit. Credits are based on the number of meeting times per week and the length of the course.
- (3) The student with the highest cumulative average is ranked number one. If two students have the same cumulative average they will be assigned the same rank while the following number will be left unassigned. Certain courses are weighted based on course difficulty.

**c. HIGH HONOR/HONOR ROLL**

- (1) The honor roll contains the names of students having an average of no lower than 87% for all courses that have numerical grades and the high honor roll contains the names of students having an average of 93% or better in all numerical grades. A student who receives an incomplete mark "I" or has a grade of 69% or less in any course is not eligible for either honor roll.
- (2) A student who believes an error exists in either honor roll list should immediately report the discrepancy to the guidance department.

**d. MARKING SYSTEM**

- (1) Students will receive a numerical grade for each course at the end of every quarter. The quarter, semester, and year-end grades will all be numerical averages. Work which is incomplete at the end of the fourth quarter will be given a "zero" for the incomplete assignments and averaged with other grades given during that quarter.
- (2) The following system of marking applies:  
90-100 ..... Excellent (A)  
80-89 ..... Above Average (B)  
70-79 ..... Average (C)  
65-69 ..... Passing Below Average (D)  
0-64 ..... Failing, Unsatisfactory (F)  
I..... Incomplete  
P..... Passing, Pass/Fail Course  
F..... Failing, Pass/Fail Course  
MD..... Medically Excused in Physical Education  
WP..... Withdrew with Passing Grade  
WF..... Withdrew with Failing Grade

**e. TESTING**

- (1) Teachers shall administer tests in their classes during each 9 week marking period during the school year. Those tests should be progressive and comprehensive in nature by including information learned in previous course work. The tests shall be appropriate to the student's age and ability and consistent with the academic standards established by the Commonwealth of Pennsylvania.

Teachers shall use multiple assessment techniques to evaluate the student's progress including, but not limited to, reports, individual or group projects, discussions, homework and teacher observation.

- (2) Students shall receive a grade at the end of each 9 week marking period. The final grade is the average for the four marking periods.

**f. STUDENT PROGRESS**

Students and parents can at any time access and monitor grades in any class by logging onto the Student and/or Parent portal at [www.oswayovalley.com](http://www.oswayovalley.com). If internet access is not available, please contact the guidance office. (NOTE: Parents needing access to the MMS Portal should obtain a username and password from the guidance office.)

**g. HOMEWORK**

(1) Homework assignments should complement the school instruction. The assignments should develop student responsibility, good study habits, and organizational skills. Homework assignments should provide practice and reinforcement of skills already presented by the teacher, broaden areas of interest through enrichment, and provide an opportunity for parents to know their child is studying.

- (2) Homework should not interfere with the proper development of the student's health, nor should it interfere with the student's assuming responsibilities in the home.
- (3) Assignments will be reviewed and returned within a reasonable amount of time, depending on each type of assignment.
- (4) Teachers should discuss with the students the value and meaning of homework in each course at the beginning of the school year.
- (5) No one subject should comprise too great a majority of homework assignments.
- (6) Homework will not be assigned as busy work or as a form of punishment in any of the grade levels.

**h. SUMMER SCHOOL**

- (1) Students who fail required courses may be allowed to attend summer school or participate in a correspondence course program in order to acquire the credit. To qualify for summer school the final course average may not be below a 50%. A maximum of two courses may be completed during summer school.
- (2) Allowing summer school or correspondence course work to make-up for failed courses is at the discretion of the administration. The student is responsible for all costs, fees and transportation related to summer school programs.
- (3) Students who successfully complete summer school or correspondence school requirements will receive a grade of 65% and course credit for the course taken.

**i. ACADEMIC HONORS**

The top academic students in each graduating class will be determined by the final cumulative grade point averages and will be honored at the Senior Recognition Night and at commencement. The following awards will be recognized:

- (1) 1st Honor (Valedictorian) - Highest cumulative average among academic students.
- (2) 2nd Honor (Salutatorian) - Second highest cumulative average among academic students.
- (3) 3rd Honor - Third highest cumulative average among academic students.

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**DEPARTMENT: Language Arts**Course Name: **ELA 9**Course #: **1911**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): ELA 8

Course Description: "English 9" follows Grades 9/10 ELA PA Core Standards for Reading Informational Texts (1.2) and Literary Texts, including poetry and drama (1.3); Writing Informational, Persuasive, and Argumentative modes (1.4); and Speaking and Listening (1.5). Building on 8th grade work, the writing strand of the course begins with review of language basics: parts of speech and sentence structure (1.4 E, F, K, L, Q, R). Students progress to a review of paragraph writing with clear topic sentences, including the skill of composing evidence-based constructed responses to open-ended questions (1.4 S). Next are short essays, both response- and research-based (1.4 A – D, G- J, M-P, U - W). Students use a revision-based writing process throughout the year (1.4 T, X). The reading strand involves learning and using literary terminology for analysis of key ideas/details (1.2/1.3 A – C) and craft/structure (1.2/1.3 D – F). Students analyze both informational and literary texts for argument, theme, idea development and sources, and genre and period (1.2 G-I; 1.3 G, H). Students will use strategies for comprehension and for vocabulary acquisition (1.2 I – K, 1.3 I, J) and will read a spectrum of informational and literary texts independently (1.2/1.3 K, L). In addition, students are expected to participate in class discussion using appropriate Standard English (1.5 A, E, G), listen analytically to presentations (1.5 B, C) and make at least one research-based presentation 1.5 D, E).

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Prentice Hall Literature Gold LevelCourse Name: **ELA 10**Course #: **1011**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): English 9

Course Description: Sophomore English Language Arts builds upon the 9th grade year. Throughout the 10th grade ELA course, students continue to focus on organizing and transitioning their essays. Furthermore, writing and grammar are included within the literature in order to enable students to approach them in a realistic manner. Within the literature units, students explore similar themes, relate ideas presented in the classroom to the real world, complete various projects, and perform several writing types, including narrative, informative, and persuasive. Literature, including the genres of short story, poetry, drama, novel, and nonfiction, are used as background for the written and oral portions of the course. In addition to the essay writing and the literature units, students also are required to complete a thesis paper, as part of the class requirements. Proper grammar, spelling and punctuation will be emphasized in all activities.

\*\*This course results in the administration of the Keystone Literature Exam in the Spring. This exam is a graduation requirement starting with the class of 2019.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Prentice Hall Literature



**Course Name: ELA 11****Course #: 1111**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** English 10

**Course Description:** English 11 builds upon the 10th grade year. Throughout the 11th grade course, students continue to focus on building strong writing skills as they explore American Literature. Understanding American history and the culture, which created the literature gives students a better understanding of how literature reflects the values of society. Within the literature units, students will explore American documents and apply the concepts covered to modern day applications and universal themes. Literature, including the genres of short story, poetry, drama, novel, and nonfiction, are used as platforms for the written and oral portions of the course. In addition to the essay writing and the literature units, students also are required to complete a research paper, as part of the class requirements. Proper grammar, spelling and punctuation will be emphasized in all activities.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Prentice Hall Literature: Timeless Voices, Timeless Themes (The American Experience)**Course Name: ELA 12****Course #: 1211**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** English 11

**Course Description:** This course offers students an alternative to the college-level class while building necessary skills in vocabulary, grammar, research, and literature. Throughout this course, students will explore common universal themes found in poetry, short stories, and essays while discussing fundamental components like characterization, irony, figurative language, narration, and symbolism. Using these skills, students will actively participate in graded discussions, writing responses, and other assignments designed to assess student understanding. A research paper will also be required as an assessment of student learning.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Prentice Hall Literature: Timeless Voices, Timeless Themes (The British Tradition)**Course Name: English Composition I****Course #: 1221**# Credits: **0.5**      Grade(s): 09 10 11 12**Course Length: 18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **Pitt-Bradford****Prerequisite(s):** English 11 and at least a "B" cumulative average in English(grades 9-11)

**Course Description:** This college-level class focuses on improving student writing through research, analysis, grammar, and argument. Throughout this course, students will be required to write essays, peer edit, revise submitted work, and connect ideas to real-world applications. Grammar, punctuation, current event presentations, and paragraph submissions will be required on a weekly basis in order to build quality writing. In addition to these requirements, students will read a classic novel and write a literary response paper, incorporating quoted evidence to connect its universal theme to current social or political issues. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** \_\_\_\_\_

**Course Name: Literature and Interpretation****Course #: 1222**# Credits: **0.5**Grade(s): 09 10 11 12Course Length: **18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **Pitt-Bradford**

Prerequisite(s): English 11 and at least a "B" cumulative average in English (grades 9-11)

**Course Description:** Throughout the second half of the year, students will focus on literature in order to build a better understanding of characterization, plot structure, poetry, suspense techniques, and figurative language. A combination of essays, short stories and poems will provide students the opportunity to compare themes across genres. Writing assignments, graded discussions, memorization, dramatic monologues, and extemporaneous speeches will enable students to build better communication and analytical skills. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: \_\_\_\_\_

**Course Name: Yearbook****Course #: 1008**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** The class studies ethics and issues in journalism, modes of journalism, different types of journalists, and changes in journalism over time. The class meets PA Core Standards for Writing and for Reading Informational Text for Grades 11/12 as well as some Art standards. Students learn journalistic forms of writing and photo composition. Students create and evaluate layouts, compose and evaluate photography, write and evaluate articles, and develop and evaluate two different types of publications: a newsletter and a yearbook. The yearbook and the newsletter as class products are unique in they do not belong to the students who produce them, but to the public. In addition to studying material for tests and quizzes and applying skills to layouts, students are expected to provide photography for their layouts; adhere to inflexible yearbook and newsletter deadlines; show initiative, make and keep commitments, and take responsibility; work independently; employ problem-solving strategies; communicate well with staff and students; and collaborate as a team, regardless of personal feelings. As a part of the students' "Advertising and Marketing in Journalism" grade (a minor percentage of the overall grade), they are also expected to sell a minimum of advertisements and work any fundraisers to lessen the cost of yearbooks to the student body. Students are graded on performance on quizzes and tests; on quality of writing and layouts; and on adherence to deadlines; and a large portion of the grade is weekly independent progress on or contribution to the yearbook or newsletter.

Frequency of Course Offering: This course is offered every school year. This course may be re-taken.

Textbook(s) Used: None

**DEPARTMENT: Foreign Language**Course Name: **Spanish I**Course #: **3911**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): None

Course Description: Spanish I introduces the student to basics of the language, including alphabet, frequent vocabulary, and basic grammar. We work with common conversational topics and corresponding cultural topics. Following the Standards for Foreign (World) Language Learning, we work on communication—exchanging information and opinion in speech and writing; culture—understanding the history, practices, and products of Spanish-speaking countries and areas; connections—furthering knowledge and practice of other disciplines through the language and using skills learned in class to other classes and aspects of life; comparisons—comparing our culture and language to the Spanish, thereby learning more about our culture and our language; and communities—using the language outside the classroom and even contacting via post or the Internet members of other Spanish-speaking classes or communities.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Paso a Paso, Prentice Hall, 2000.Course Name: **Spanish II**Course #: **3912**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Spanish I

Course Description: Spanish II reviews and reinforces language learned to date, explores Spanish and Mexican history, and introduces more complex grammar such as past and future tenses. Following the Standards for Foreign (World) Language Learning, we work on communication—exchanging information and opinion in speech and writing; culture—understanding the history, practices, and products of Spanish-speaking countries and areas; connections—furthering knowledge and practice of other disciplines through the language and using skills learned in class to other classes and aspects of life; comparisons—comparing our culture and language to those of the Spanish, thereby learning more about our culture and our language; and communities—using the language outside the classroom and even contacting via post or the Internet members of other Spanish-speaking classes or communities.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Paso a Paso 1, Prentice Hall, 2000.Course Name: **Spanish III**Course #: **3913**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Spanish II

Course Description: Spanish III reviews and reinforces language learned to date, introduces more complex and subtle aspects of Spanish grammar and speech such as compound tenses, explores Spanish society and values in more depth, and begins to apply knowledge to Spanish literature, with selections both in Spanish and English. Following the Standards for Foreign (World) Language Learning, we work on communication—exchanging information and opinion in speech and writing; culture—understanding the history, practices, and products of Spanish-speaking countries and areas; connections—furthering knowledge and practice of other disciplines through the language and using skills learned in class to other classes and aspects of life; comparisons—comparing our culture and language to those of the Spanish, thereby learning more about our culture and our language; and communities—using the language outside the classroom and even contacting via post or the Internet members of other Spanish-speaking classes or communities.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Paso a Paso, Prentice Hall, 2000.



**Course Name: Spanish IV****Course #: 3914**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Spanish III

**Course Description:** Spanish IV reviews and reinforces language learned to date, introduces more colloquial and dialectic speech and the subjunctive mood, and applies knowledge to Spanish literature, with selections both in Spanish and English. Following the Standards for Foreign (World) Language Learning, we work on communication—exchanging information and opinion in speech and writing; culture—understanding the history, practices, and products of Spanish-speaking countries and areas; connections—furthering knowledge and practice of other disciplines through the language and using skills learned in class to other classes and aspects of life; comparisons—comparing our culture and language to those of the Spanish, thereby learning more about our culture and our language; and communities—using the language outside the classroom and even contacting via post or the Internet members of other Spanish-speaking classes or communities. The grammar component includes gustar and similar verbs; the uses of para and por; the two Spanish past tenses (the preterite and the imperfect); the use of se with indefinite subjects; reflexive verbs; and formal and informal commands. Also included are comparatives and superlatives; the present subjunctive; the conditional, and the present and past perfect tenses. The oral, reading comprehension and cultural components of the course are enhanced by a series of short films and readings of interest to students.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Paso a Paso, Prentice Hall, 2000**DEPARTMENT: Mathematics****Course Name: Pre-Algebra****Course #: 2911**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): 8th Grade Math or Teacher recommendation

**Course Description:** The Pre-Algebra class is designed to enhance the student's knowledge of mathematics as developed in Eighth Grade Math and to prepare the students for the math concepts and topics that will be taught in Algebra I. Topics covered will include expressions, equations and functions; order of operations; properties; operations with rational numbers; ratios and proportions; polynomials; factoring; graphing functions; solving and graphing linear equations; inequalities; probability and statistics; and box-and-whisker plots.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Algebra 1 –McDougall Littell**Course Name: Algebra I****Course #: 2900**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

**Prerequisite(s):** For student entering grade 10: Pre-Algebra. For student entering grade 9: Student must meet three of the four prerequisite criteria; 1.) Pro/Adv on 8<sup>th</sup> grade ELA PSSA 2.) Pro/Adv on 8<sup>th</sup> grade Math PSSA 3.) Earn a yearly average of 90% or higher in Math 8 4.) Teacher recommendation.

**Course Description:** The Algebra 1 class is designed to enhance the student's knowledge of mathematics as developed in Eighth Grade Math and/or Pre-Algebra to prepare the students for the math concepts that are tested on the Algebra 1 Keystone Exam. Topics covered will include operations with real numbers and expressions, linear equations and inequalities, functions and coordinate geometry, and data analysis.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Algebra 1 –A.C.E. - Houghton, Mifflin, Horcourt

**Course Name: Geometry****Course #: 2042**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** Algebra 1 with Teacher recommendation**Course Description:** This course is designed to introduce students to inductive and deductive reasoning and logic. Additional topics to be covered include basic geometric concepts and constructions, problem solving, analytic geometry, algebra, trigonometry, circles and three dimensional figures.**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Geometry – McDougal Littell**Course Name: Algebra II (DE)****Course #: 2122**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **Pitt-Bradford****Prerequisite(s):** 10 grade entry only upon teacher recommendation.**Course Description:** The topics covered in college Algebra II are functions - linear, radical, quadratic, exponential, and logarithmic-and their graphs, rational expressions, linear and compound inequalities, rational exponents, solving systems of linear equations, and solving quadratic equations. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change.**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** \_\_\_\_\_**Course Name: Pre-Calculus (DE)****Course #: 2211**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **Pitt-Bradford****Prerequisite(s):** Algebra II with teacher recommendation.**Course Description:** This course is designed to develop the skills needed to succeed in a college level mathematics course. The material is presented analytically, graphically, and algebraically. The use of graphing calculators is used to visualize and explore various topics covered. Topics covered include functions and their inverses, applications of exponential and logarithmic functions, and trigonometry, including trigonometric graphs, identities, and equations. Sequence, series, and limits are introduced. This college course is worth 4 college credits. The college description is: the topics include intermediate algebra, functions and graphs, polynomial functions, rational functions, inverse functions, logarithmic and exponential functions, and trigonometry. Currently the cost is \$125, but is subject to change. Student does not have to take Pre-Calc for college credit.**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Pre-Calculus with Limits**Course Name: Calculus (DE)****Course #: 2213**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **Pitt-Bradford****Prerequisite(s):** Teacher recommendation**Course Description:** We will study limits, continuity, the derivative and integral of functions of a single variable and their applications. It is recommended that each student have their own scientific calculator. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change. Student does not have to take Calculus for college credit.**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** University of Pittsburgh at Bradford Calculus Textbook

**Course Name: Integrated Math I**

Course #: 2111

# Credits: 1.0 Grade(s): 09 10 11 12

Course Length: 36 Weeks (1 Year)

Is College Credit Available for this Course? Yes No

If "Yes", Which College/University? N/A

Prerequisite(s): Algebra 1 or teacher recommendation.

**Course Description:** Integrated Math I offers a review of algebraic and geometric skills as they apply to real world problems. Students will explore linear algebra, triangle trigonometry, basic number theory, and real-life problem solving. Graphing technology is used in this course.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Math Matters 2**Course Name: Integrated Math II**

Course #: 2131

# Credits: 1.0 Grade(s): 09 10 11 12

Course Length: 36 Weeks (1 Year)

Is College Credit Available for this Course? Yes No

If "Yes", Which College/University? N/A

Prerequisite(s): Teacher recommendation.

**Course Description:** This course is the final course in the Integrated Math sequence. Further exploration and applications for Algebra, Geometry, statistics, probability, right triangle trigonometry, and transformations are included. Graphing calculators and computer technology are incorporated throughout the course. Students will also explore various aspects of consumer mathematics including: balancing a checkbook, calculating pay, taxes, loans and credit cards.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Math Matters 3**Course Name: Statistics (DE)**

Course #: 2220

# Credits: 1.0 Grade(s): 09 10 11 12

Course Length: 36 Weeks (1 Year)

Is College Credit Available for this Course? Yes No If "Yes", Which College/University? Pitt-Bradford

Prerequisite(s): Algebra 2 or currently taking Algebra 2 as well as Teacher recommendation

**Course Description:** Statistics is a course that will prepare students to take a college level statistics class. This is a math elective, but seniors may take this class for their senior math credit. Topics covered in this class will be: Frequency distributions, Measures of Variation, Probability, Discrete Probability Distribution, Normal Probability Distributions, Confidence Intervals, Hypothesis Testing, and Correlation and Regression. This course is worth 4 college credits. The college description is: This is an introductory statistics course and covers methods of summarizing data, descriptive statistics, probability and probability distributions, sampling distributions, the central limit theorem, hypothesis testing, analysis of variance, and regression analysis. Mathematical derivations and formulas are stressed. Currently the cost is \$125, but is subject to change. Student does not have to take Statistics for college credit.

Frequency of Course Offering: This course is offered every other school year. **This course offered in 2019-20.**Textbook(s) Used: Elementary Statistics, Picturing the World**Course Name: Trigonometry**

Course #: 2002

# Credits: 1.0 Grade(s): 09 10 11 12

Course Length: 36 Weeks (1 Year)

Is College Credit Available for this Course? Yes No

If "Yes", Which College/University? N/A

Prerequisite(s): Algebra 2 or currently taking Algebra 2 as well as Teacher recommendation

**Course Description:** Trigonometry is a course that will prepare students for success in higher-level mathematics classes in high school and college. This is a math elective, but seniors may take this class for their senior math credit. It will also help them to better understand certain topics in physics. The topics covered in this class will include: Right Triangle Trigonometry, Law of Sines, Law of Cosines, Graphing Trigonometric Functions, Polar Coordinates, and Applications.

Frequency of Course Offering: This course is offered every other school year. **This course not offered in 2019-20.**Textbook(s) Used: Elementary Statistics

**DEPARTMENT: Science**Course Name: **Chemistry**Course #: **4172**# Credits: **1.0**      Grade(s): 09   10   11   12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**Prerequisite(s):

Course Description: This course studies the composition, structure, and properties of matter and the changes it undergoes. Topics studied include mixtures, atomic theory, behavior of electrons, periodic trends, the mole, chemical bonding, chemical reactions, and gases. Classroom material is supplemented with laboratory experiments.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Pearson Chemistry (Foundation Edition), Pearson, 2012Course Name: **Intro to Biology**Course #: **4913**# Credits: **1.0**      Grade(s): 09   10   11   12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Chemistry

Course Description: This introductory, three semester course in Biology covers the common units of Biology. The course is designed to help students better prepare for taking and passing the Biology Keystone Exam. Students will be exposed to basic biological principles, biochemistry, bio-energetics, homeostasis and transport, DNA, RNA, and protein synthesis, cell growth and reproduction, patterns of inheritance, bio-technologies, and evolution. Students will complete the third semester the following school year followed by Conceptual Physics.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Modern Biology: Holt 2005Course Name: **Biology I**Course #: **4911**# Credits: **1.0**      Grade(s): 09   10   11   12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Students must meet three of the four below criteria: 1. Pro/Adv on 8th grade PSSA Science exam, 2. Pro/Adv on 8th grade PSSA ELA exam, 3. 80% or higher in 9th grade Chemistry, 4. Teacher Recommendation

Course Description: A sophomore introductory biology course which covers the common ten units of study for the Pennsylvania Keystone Standards. The curriculum includes units in basic biological principles, biochemistry, bio-energetics, homeostasis and transport, DNA, RNA, and protein synthesis, cell growth and reproduction, patterns of inheritance, bio-technologies, evolution, and ecology.

**\*\*This course results in the administration of the Keystone Biology Exam in the Spring. This exam is a graduation requirement.**

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Modern Biology: Holt 2005Course Name: **Physics**Course #: **4212**# Credits: **1.0**      Grade(s): 09   10   11   12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Biology and Algebra II

Course Description: Physics is the study of matter and energy and how they interact. Topics explored will include: Linear Motion, Circular Motion, Forces, Simple Machines, Heat, Waves, Sound, Light, and Electricity and Magnetism. The text material will be supplemented with laboratory experiments.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: Foundations of Physics. CPO Science, 2004

**Course Name: Conceptual Physics/Intro. to Bio(3<sup>rd</sup> Sem.)****Course #: 4112**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** Intro to Biology (Semesters 1 and 2)

**Course Description:** This year long course starts with the 3<sup>rd</sup> semester of Intro to Bio, which was started during Sophomore year. At the end of the semester, students will take the Biology Keystone exam, which is a graduation requirement. The second semester will cover Conceptual Physics; which is the study of matter and energy and how they interact. Topics explored will include: Linear Motion, Circular Motion, Forces, Simple Machines, Heat, Waves, Sound, Light, and Electricity and Magnetism. This is a laboratory based course.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Active Physics 3<sup>rd</sup> Edition It's About Time, 2010**Course Name: Biology II****Course #: 4211**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** Biology I and Chemistry

**Course Description:** The biology sequence covers basic botany, bacteriology, virology, mycology, protists, and organ system anatomy and physiology

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Modern Biology: Holt 2005**Course Name: Concepts of Biology (DE)****Course #: 4213**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **Pitt-Bradford****Prerequisite(s):** Biology I, Chemistry and Physics and Teacher recommendation

**Course Description:** This is an optional 3 credit college level lecture (Lab is not included) course for non-science major offered as a dual enrollment course through the University of Pittsburgh. Seniors may earn the option of taking this course by obtaining teacher approval and maintaining a "B" or better average in the prerequisite courses. The course is a survey of biological concepts providing students with a good understanding of how biology relates to everyday life. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change.

**Frequency of Course Offering:** This course is offered every other school year. **This course not offered 2019-20.****Textbook(s) Used:** Cambell, Neil A., Reece, Jane B. and Simon, Eric J. (2004). Essential Biology, 4/e, San Francisco: Pearson/Benjamin Cummings. And Current Issues in Biology, Vol. 2, Scientific American.**Course Name: Anatomy and Physiology****Course #: 4001**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):**

**Course Description:** This course is the first of two human anatomy and physiology courses. This first course is designed for students who have had little or no previous study of the body or the physical and chemical principles on which body structure and function is based. In this course, students are introduced to basic chemistry and physics, cytology, and histology, and the following organ systems are covered: integumentary, skeletal, muscular, cardiovascular, immune, and respiratory. The accompanying laboratory deals with basic terminology, microscopy, animal dissection, organ dissection, and experimentation.

**Frequency of Course Offering:** This course is offered every other school year. **This course offered 2019-20.****Textbook(s) Used:**

**Course Name: STEM /Intro to Engineering**Course #: **4100**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s):

Course Description: This course describes the field of engineering and engineering technology allowing students to explore technology systems and design processes. Through the course students will use math, science, technology, and writing to solve engineering problems. The course is primarily project-based and requires substantial participation by all students. The course also emphasizes team work, oral and written communication, and the impact technology has on society. This course is not eligible to be counted as a Science credit for graduation requirements.

Frequency of Course Offering: This course is offered every school year. **This course not offered 2019-20.**

Textbook(s) Used:

**DEPARTMENT: Social Studies****Course Name: US History (Civil War-Present)**Course #: **6911**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

Course Description: This course covers the history the United States from the Civil War to the present. It addresses the student's ability to analyze and develop the skills of chronological thinking, comprehension, interpretation, and research. The student will study the political and cultural contributions of individuals and groups, how continuity and change have influenced history, primary documents, material artifacts and historical places, and conflict and cooperation among social groups and organizations as seen through US History.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: US History-Civil War to the Present (Holt McDougal)**Course Name: World History**Course #: **6011**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

Course Description: This course covers the history of the world. It addresses the student's ability to analyze and develop historical skills of chronological thinking, comprehension, interpretation and research. The student will study the political and cultural contributions of individuals and groups, how continuity and change have influenced history, primary documents, material artifacts and historical places, and conflict and cooperation among social groups and organizations as seen through the history of the world.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: World History and Geography (McGraw-Hill)



**Course Name: Economics: Theory and Practice****Course #: 6212**# Credits: **0.5**      Grade(s): 09 10 11 12**Course Length: 18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):**

**Course Description:** Economics is the study of the behavior of individuals and institutions engaged in the production, distribution, and consumption of goods and services. It provides the students the opportunity to examine different types of economic systems, to analyze the forces affecting markets and the functions of governmental actions in the economy, to determine how people choose to use scarce, limited resources, to connect and relate economic decisions both domestic and foreign, and to assign consequences to economic decisions. Economics is one semester. Must be taken along with Family Economics to fulfil the Junior year Social Studies credit requirement.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Economics, Holt 1999**Course Name: Civics and Government****Course #: 6111**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** None

**Course Description:** Civics and Government introduces the student to the political science discipline of the Social Studies curriculum. It provides opportunities for the student to know and understand the principles and documents of government (both domestic and foreign), the rights and responsibilities of citizenship, how government works, and how international relations function. The course is designed to be historical as it traces the development of government, comparative as it identifies similarities and differences between governments, practical as it connects academic facts with real life situations, and evaluative as it requires students to analyze and interpret information.

**Frequency of Course Offering:** This course is offered every school year.**Textbook(s) Used:** Magruder's American Government**Course Name: Recent and Contemporary America****Course #: 6040**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):** None

**Course Description:** Recent and Contemporary America covers United States History since 1945. It begins with an overview of the World War Era and brings the student as close to the present as possible. It utilizes thematic history (e.g. "The Cold War", "The Civil Rights Movement", ect). Throughout the course the student will be given the opportunity to examine primary documents, material artifacts, and historical places, to study the political and cultural contributions of individuals and groups, to analyze how continuity and change have influenced history, and to interpret conflict and cooperation among social groups and organizations. Current events hold a central role in the course.

**Frequency of Course Offering:** This course is offered every third year. **This course is offered in 2020-21.****Textbook(s) Used:** United States History; Preparing for the Advanced Placement Examination**Course Name: Psychology/Sociology****Course #: 6030**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A****Prerequisite(s):**

**Course Description:** This course spends one semester emphasizing man's understanding of himself (Psychology) and one semester emphasizing man's understanding of his relations with others (Sociology). Designed primarily as an introductory course, it serves as a primer for college prep students. A basic knowledge of how and why man does what he does enhances his interpersonal relationships. The course touches basic principles while at the same time offers more in-depth study as students initiate content on both individual and collective interest.

**Frequency of Course Offering:** This course is offered every third year. **This course is offered in 2019-20.****Textbook(s) Used:** Sociology and You (Glencoe); no Psychology text

**Course Name: History on Film**Course #: **6050**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

Course Description: History on Film utilizes multi-media interpretations and portrayals of historical events. As technology advances, information—both in content and presentation—likewise expands. Historical topics have been a central theme on film; this course aims to optimize the educational value of "entertainment" vehicles as the student analyzes differences in content and style between films, puts film topics in historical perspective, researches content of films to contrast the accuracies with artistic license, and develops an appreciation for history.

Frequency of Course Offering: This course is offered every third year. **This course is offered in 2021-22.**

Textbook(s) Used: None**DEPARTMENT: Business and Computers****Course Name: Accounting I**Course #: **5121**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

Course Description: This course introduces the basic principles of double-entry bookkeeping. It covers the analysis and recording of business transactions. It prepares one to keep formal books of entry such as journals and ledgers, and to prepare simple financial statements. The student will complete the accounting cycle, learn to write checks and receipts, reconcile bank statements and keep simple payroll records. Students will be required to do accurate and timely assignments to prepare them for real-world Accounting Applications. Students get a hands-on experience through a simulation project done both manually and with Accounting Software.

Frequency of Course Offering: This course is offered every school year. **This course not offered in 2019-20**

Textbook(s) Used: South-Western Century 21 Accounting – General Journal**Course Name: Accounting II**Course #: **5122**# Credits: **1.0** Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Accounting I

Course Description: This course is designed for the students that excelled in Accounting I and wish to go to the next level. Each assignment builds upon prior lessons and goes into advanced detail. Again, students will be required to do accurate and timely assignments to prepare them for real-world Accounting Applications. Even if they use an automated accounting system they need to understand the theory behind the work and this class will prepare them.

Frequency of Course Offering: This course is offered every school year. **This course not offered in 2019-20**

Textbook(s) Used: Microsoft Office 2007: The Performing Series 2008 Course Technology, Cengage Learning

**Course Name: Intro to Computer Science****Course #: 5200**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including AP Computer Science Principles and AP Computer Science A courses. The course allows students to work independently in text-based Python. The course also includes a career focus, where at the end of the units, students meet (via video) individuals from different industries who work in coding (medical, music, etc).

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: Online course**Course Name: AP Computer Science A****Course #: 5201**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Algebra I is required and Algebra II is highly recommended along with teacher recommendation

**Course Description:** AP Computer Science A is geared towards 11<sup>th</sup> and 12<sup>th</sup> grade students who are serious about programming. Java requires a good mathematical background and strong problem-solving skills. The course will prepare students for the Advanced Placement Computer Science exam, level A. Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem-solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. AP Computer Science A is approved by the College Board as an authorized AP Computer Science A course.

The AP exam is optional. Those students interested in taking the AP exam should be aware that there is a fee associated with the exam, which will be the responsibility of the student. \*\*AP exam will not be available for the 2019-2020 school year.

Frequency of Course Offering: This course is offered every other school year. **This course offered in 2019-20.**Textbook(s) Used: Online course**DEPARTMENT: Fine and Practical Arts****Course Name: Culinary Arts****Course #: 8814**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Culinary Arts is the practice of preparing food tastefully and creatively. In this course, you will explore the craftsmanship of making food appealing in many different areas including: appetizers, salads, soups, breads, cakes, cookies, pies, candies, meats & poultry, eggs, and much more. You will also explore international cuisine, and the art of fine dining and etiquette. Emphasis will be placed on correct techniques and the mastery of food presentation.

Frequency of Course Offering: This course is offered every school year, but can't be re-taken. **You may not take Culinary Arts and Food Science in the same year.**

Textbook(s) Used: None

**Course Name: Food Science****Course #: 8815**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Also known as You Are What You Eat. Food Science involves the examination of the chemical composition of foods, how those foods react to one another during cooking, and how foods become YOU! You will explore many areas including: sensory evaluation (your taste buds), nutritional values of foods, the effects of ingredients in baked goods, sugars and crystal formation, food preservation (canning, dehydrating, concentrating, freezing), microbes in yogurt, cheese making, fats and emulsifiers, egg foams, and much more!

**Frequency of Course Offering:** This course is offered every school year, but can't be re-taken. **You may not take Culinary Arts and Food Science in the same year. This course not offered in 2019-20**

Textbook(s) Used: None**Course Name: Family Economics****Course #: 8816**# Credits: **0.5**      Grade(s): 09   10   11   12**Course Length: 18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** This class is part of your requirement to graduate. During your Family Economics session, you will have the opportunity to learn about the following: Personal Finances such as Savings, Checking, Credit, and how to Build a Budget; Developing Personal Relationships; Living on Your Own; Child Development, The Family Life Cycle and how to Balance Family Life with Work; Renting vs. Buying a Home and all you need to know about both; and more. Must be taken along with Economics to fulfill your Junior year Social Studies credit requirement.

**Frequency of Course Offering:** This course is offered every school year.

Textbook(s) Used: None**Course Name: Working with Children****Course #: 8535**# Credits: **0.5**      Grade(s): 09   10   11   12**Course Length: 18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** This course is designed to help students understand and/or prepare for careers in Early Childhood—whether it be a caregiver, a preschool teacher/manager, or an elementary teacher. Topics will include social, emotional, intellectual, and physical development during each stage of childhood. Students will participate in fun and exciting learning activities that can be transferred to a child's learning environment. The role of the family and good parenting skills will also be examined. Students will participate in observations of children to help apply the knowledge learned in the classroom.

**Frequency of Course Offering:** This course is offered every other school year. **This course offered in 2019-20.**

Textbook(s) Used: Parenting: Rewards & Responsibilities and Working with Young Children**Course Name: Housing & Interior Design****Course #: 8813**# Credits: **0.5**      Grade(s): 09   10   11   12**Course Length: 18 Weeks (1 Sem.)**Is College Credit Available for this Course? Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Students will discover and learn about space and design in the home. They will also learn practical ways to save money and make realistic purchases regarding homes. Topics of discussion include elements and principles of design, color and its effects, furnishing, window treatments, renting vs. buying, family life cycle stages and their affect on housing, and today's home buying market.

**Frequency of Course Offering:** This course is offered every other school year. **This course offered 2019-20.**

Textbook(s) Used: Homes with Character

**Course Name: Graphic Design/Photography****Course #: 7574**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** This is a year-long course covering an extensive range of artistic materials and processes. Students will learn about design elements and principles while completing graphic design projects using traditional (cut-and-paste), and contemporary (digital) technologies. The design elements and principles will be used throughout this course as students explore film photography and darkroom development, digital photography and Photoshop editing, multi-color printmaking, and the development and production of animation and movie-making.

\*\*Projects subject to change at teacher discretion

**Frequency of Course Offering:** This course is offered every school year. **You may only take one Art class per year, with the exception of Art Appreciation.**

Textbook(s) Used: \_\_\_\_\_

**Course Name: Drawing and Painting****Course #: 7562**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** This is a year-long course covering a range of traditional artistic materials and processes. Students will explore a variety of drawing and painting techniques while completing a wide range of projects. Projects may include, but are not limited to, perspective drawing, oil painting, line design, charcoal/graphite drawing, color pencil drawing, watercolor painting, illustration, acrylic painting, ink drawing, Chinese brush painting, or pastel drawing.

\*\*Projects subject to change at teacher discretion

**Frequency of Course Offering:** This course is offered every school year. **You may only take one Art class per year, with the exception of Art Appreciation.**

Textbook(s) Used: None**Course Name: 3D Art****Course #: 7561**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** 3D (three-dimensional) is a year-long course covering subtractive (carving away), and additive (adding on) processes. Projects/materials used during this course may include, but are not limited to, Sculpey, plaster (subtractive) and plaster (additive), wheel-thrown and hand-built clay projects, cardboard sculptures, wire, paper mache, or Mosaic, shadowbox/paper sculpture.

\*\*Projects subject to change at teacher discretion.

**Frequency of Course Offering:** This course is offered every school year. **You may only take one Art class per year, with the exception of Art Appreciation.**

Textbook(s) Used: None**Course Name: Portfolio Art****Course #: 7550**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Graphic Design/Photography, Drawing and Painting, 3D

**Course Description:** Course is a year long program open only to senior students who have completed the three elective art offerings. It is an independent study program planned between the instructor and student exploring in depth concepts and techniques. A student may also use the class to prepare a portfolio to be used for admission to an art school.

**Frequency of Course Offering:** This course is offered every school year. **You may only take one Art class per year, with the exception of Art Appreciation.**

Textbook(s) Used: None



**Course Name: Art Appreciation (DE)****Course #: 7551**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **Pitt-Bradford**

Prerequisite(s):

**Course Description:** Art Appreciation focuses on the history and development of the visual arts. This course emphasizes primarily the art of Western or Eurocentric cultures. However, Non-Western cultures such as African and Asian art will also be discussed and examined. The course will cover the meanings, purposes, styles, elements, and principles of art, along with the history of art and the various media used to create works of art. This course can be taken for three (3) dual enrollment college credits through the University of Pittsburgh. There is a cost to take the class in order to earn college credit. Currently the cost is \$125, but is subject to change.

**Frequency of Course Offering:** This course is offered every third school year. **This course is offered in 2020-21 if 10 student minimum is met.**

Textbook(s) Used: None**Course Name: Woods I****Course #: 8505**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** First year students will gain an understanding of wood production from seed to finished product. Students will demonstrate an understanding of hardwoods and softwoods. First year students will learn the importance of planning a project. This will include figuring out their supply list and materials list as well as the cost of building their project. Students will have created their own objectives for their projects and the steps to completion. Students will be on a deadline for completion. Students will safely use power tools and hand tools to complete projects. Students will utilize measurements, converting fractions and decimals to calculate linear, board and square feet for projects. Students will also demonstrate understanding of basic joinery. There will be specific joinery requirements for projects. Students will know the parts of a board and tool vocabulary as well as reading/writing/journaling activities. Students will also have the responsibility of daily and weekly clean up jobs. Students will have multiple evaluations during each 9 week project and are expected to be on task at all times.

**Frequency of Course Offering:** This course is offered every school year.

Textbook(s) Used: None**Course Name: Woods II****Course #: 8506**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Woods I

**Course Description:** Second year students will follow the same course sequence with emphasis being placed on difficulty of a project. Students will be required to increase the difficulty of joinery in their projects. Students will have one major project due at the end of each nine weeks. Students will be responsible for completing all projects as designed by their planning sheet. Students will have created their own objectives for their projects and the steps to completion. Students will be on deadline for completion. Students will safely use power tools and hand tools to complete projects. Students will utilize measurements, converting fractions and decimals to calculate linear, board and square feet for projects. Students will also demonstrate understanding of basic joinery. There will be specific joinery requirements for projects. Students will know the parts of a board and tool vocabulary as well as reading/writing/journaling activities. Students will also have responsibility of daily and weekly clean up jobs. Students will have multiple evaluations during each 9 week project and are expected to be on task at all times.

**Frequency of Course Offering:** This course is offered every school year.

Textbook(s) Used: None



**Course Name: Woods III****Course #: 8507**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Woods II

**Course Description:** Third year students will follow the same course sequence with emphasis being placed on the degree of difficulty involved in their projects. Third year students should be able to demonstrate proficiency in all aspects of the woodshop. Third year students will create an 18 week project. Students will have created their own objectives for their projects and the steps to completion. Students will be on a deadline for completion. Students will safely use power tools and hand tools to complete projects. Students will utilize measurements, converting fractions and decimals to calculate linear, board and square feet for projects. Students will also demonstrate understanding of basic joinery. There will be specific joinery requirements for projects. Students will know the parts of a board and tool vocabulary as well as reading/writing/journaling activities. Students will also have the responsibility of daily and weekly clean up jobs. Students will have multiple evaluations during each 9 week project and are expected to be on task at all times. Students will be responsible for completing all projects as designed by their planning sheet.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: None**Course Name: Woods IV****Course #: 8508**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Woods III

**Course Description:** Fourth year students will be a culmination of previous years. Students will be encouraged to create at least one large project consuming at least 18 weeks. Throughout this semester there will be various teaching on woodworking and construction including framing, siding, roofing, block and brick work, drywall, electrical and plumbing as well as an emphasis being placed on how to problem solve around the house. Students will have created their own objectives for their projects and the steps to completion. Students will be on a deadline for completion. Students will safely use power tools and hand tools to complete projects. Students will utilize measurements, converting fractions and decimals to calculate linear, board and square feet for projects. Students will also demonstrate understanding of basic joinery. There will be specific joinery requirements for projects. Students will know the parts of a board and tool vocabulary as well as reading/writing/journaling activities. Students will also have the responsibility of daily and weekly clean up jobs. Students will have multiple evaluations during each 9 week project and are expected to be on task at all times. Students will be responsible for completing all projects as designed by their planning sheet.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: None**Course Name: Mechanical Drawing I****Course #: 8500**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Mechanical Drawing is designed to teach students CAD/CAM/CAE (Computer Aided Design/Computer Aided Manufacturing/ Computer Aided Engineering) related to today's engineering needs. Students will use Autodesk, 3D Design, Engineering & Entertainment Software as well as current relevant open source/freeware to explore and solve problems related to today's engineering fields including mechanical, electrical, and structural. Students will design and engineer projects utilizing the Engineering Design Process. Students will also spend time creating models and test structures to help them explore the manufacturing and design process. Mechanical Drawing students will design and model in 3D with the ability to create complex blueprints and 2D drawings. Drawings can transfer from a 3D design into a 2D engineering drawing format and also create photo-realistic views. Students will create many projects related to current design from: wheels and tires, bikes, tree stands, watches, bridges, sunglasses and more.

Frequency of Course Offering: This course is offered every school year.

Textbook(s) Used: None

**Course Name: Mechanical Drawing II****Course #: 8501**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Mechanical Drawing I

Course Description: Mechanical Drawing is designed to teach students CAD/CAM/CAE (Computer Aided Design/Computer Aided Manufacturing/ Computer Aided Engineering) related to today's engineering needs. Students will use Autodesk, 3D Design, Engineering & Entertainment Software as well as current relevant open source/freeware to explore and solve problems related to today's engineering fields including mechanical, electrical and structural. Students will design and engineer projects utilizing the Engineering Design Process. Students will also spend time creating models and utilize structural testing to help them explore the manufacturing process. Students will learn reverse engineering and ergonomic design. Through the design process students will formulate hypothesis and use animation, simulation, matting and presenting to test their design. Users design and model in 3D and can create 2D drawings. Drawings can transfer from a 3D design into a 2D engineering drawing format and also create photo-realistic views. Students will create many projects related to current design from: wheels and tires, bikes, tree stands, watches, bridges, sunglasses and more.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: None**Course Name: Mechanical Drawing III****Course #: 8502**# Credits: **1.0**Grade(s): 09 10 11 12Course Length: **36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Mechanical Drawing II

Course Description: Mechanical Drawing is designed to teach students CAD/CAM/CAE (Computer Aided Design/Computer Aided Manufacturing/ Computer Aided Engineering) related to today's engineering needs, students will use Autodesk, 3D Design, Engineering & Entertainment Software as well as current relevant open source/freeware programs to explore and solve problems related to today's engineering fields including mechanical, electrical and structural. Students will design and engineer projects utilizing the Engineering Design Process. Students will also spend time creating models and utilize structural testing to help them explore the manufacturing and design process. Students will learn reverse engineering and ergonomic design. Through the design process students will formulate hypothesis and use animation, simulation, matting and presenting to test their design. Students will design large scale models through inquiry based problem solving skills developed throughout the course year. Students will explore simple machines through bridge building kits, building structures and blueprints. Students will design and model in 3D and can create 2D drawings/blueprints with photo realistic views. Students will create many projects related to current design including: bike, rv/camper design, dump truck with hydraulic cylinder, bridge building/structural building utilizing popsicle sticks, new features to existing designs.

Frequency of Course Offering: This course is offered every school year.Textbook(s) Used: None

**Course Name: Mechanical Drawing IV****Course #: 8503**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): Mechanical Drawing III

Course Description: Mechanical Drawing is designed to teach students CAD/CAM/CAE (Computer Aided Design/Computer Aided Manufacturing/ Computer Aided Engineering) related to today's engineering needs. Students will use Autodesk, 3D Design, Engineering & Entertainment Software as well as current relevant open source/freeware programs to explore and solve problems related to today's engineering fields including mechanical, electrical and structural. Students will design and engineer projects utilizing the Engineering Design Process. Students will also spend time creating models and utilize structural testing to help them explore the manufacturing and design process. Students will learn reverse engineering and ergonomic design. Through the design process students will formulate several hypotheses and use problem solving skills through computer animation, simulation, matting and presenting to test their design and formulate new hypotheses. Students will design large scale models through inquiry based problem solving skills developed throughout the course year. Students will explore simple machines through bridge building kits, building structures and blueprints. Users design and model in 3D and can create 2D drawings. Drawings can transfer from a 3D design into a 2D engineering drawing format and also create photo-realistic views. Students will create many projects related to current design including: bike, rv/camper design, dump truck with hydraulic cylinder, bridge building/structural building utilizing popsicle sticks, new features to existing designs. This course is similar to Mechanical Drawing III, but students have more input into their course material as it relates to their choice of college/career opportunities.

Frequency of Course Offering: This course is offered every school year .Textbook(s) Used: None**Course Name: Music In Our Lives****Course #: 7540**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): None

Course Description: This course will familiarize you with popular music in the US from its beginnings into the 21st century. Course covers a vast array of styles and contexts. Course attempts to help students understand why he/she prefers certain musical styles and not others. Students study and create listening charts and listening maps.

Frequency of Course Offering: This course is offered every third school year , but can't be re-taken. **This course offered 2019-20.**Textbook(s) Used: None**Course Name: Guitar I****Course #: 7545**# Credits: **1.0**      Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**Prerequisite(s): None. Preference will be given to current band and/or choir members as needed.

Course Description: Students will spend the year learning about the guitar in both in the technical and social/historical aspects. Students will develop their musical ear and their playing ability on the guitar. Students will perform a variety of styles of music on the guitar for themselves, their peers and the instructor.

Frequency of Course Offering: This course is offered every third school year , but can't be re-taken. **This course offered in 2020-21.**Textbook(s) Used: None

**Course Name: Small Ensemble****Course #: 7530**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Interested musical students have the opportunity to play and sing on a number of different instruments on a number of different songs. Students would have the chance to learn new instruments, how to play, how to sing, how to read a different clef, how to express on different instruments. This is a practice and performance-based class, meaning the majority of the class will be student-centered and focus on individual practice and performance. The goal of this course will be to develop each student on an individual basis and also increase participation in competitions, festivals, and concert settings. We would learn a handful of songs over the year and perform at the concerts and perhaps the dessert theatre and/or Holiday in the Hallways.

**Frequency of Course Offering:** This course is offered every third school year, but can't be re-taken. **This course offered in 2021-22.**

Textbook(s) Used: None**Course Name: Band****Course #: 7533**# Credits: **0.5** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Middle school band or teacher approval.

**Course Description:** Students in grades 9-12 will perform on their primary instruments a variety of music during the course of the year. As well, the band will perform in concerts, adjudicated events and community and school functions.

**Frequency of Course Offering:** This course is offered every school year and can be re-taken.

Textbook(s) Used: None**Course Name: Chorus****Course #: 7535**# Credits: **0.5** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Students in grades 9-12 will sign in parts conducive to their singing voice a variety of music. The chorus will perform in concerts, adjudicated events and in community and school functions over the course of the year.

**Frequency of Course Offering:** This course is offered every school year and can be re-taken.

Textbook(s) Used: None**DEPARTMENT: Health Physical Education****Course Name: Physical Education****Course #: 9001**# Credits: **1.0** Grade(s): 09 10 11 12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course? Yes NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** PE classes develop skills, competitive-cooperative learning and lifetime activities in the following areas: Golf, Archery, Soccer, Flag Football, Speedball, Basketball, Skiing, Weight Training, Volleyball, Badminton, Ping Pong, Shuffleboard, Presidential Physical Fitness and others.

**Frequency of Course Offering:** This course is offered every school year.

Textbook(s) Used: None

**Course Name: Physical Education 9****Course #: 9911**# Credits: **0.5**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** PE classes develop skills, competitive-cooperative learning and lifetime activities in the following areas: Golf, Archery, Soccer, Flag Football, Speedball, Basketball, Skiing, Weight Training, Volleyball, Badminton, Ping Pong, Shuffleboard, Presidential Physical Fitness and others.

**Frequency of Course Offering:** This course is offered every school year.

**Course Name: Health 9****Course #: 9900**# Credits: **0.5**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): None

**Course Description:** Grade 9 Health class is designed to foster the ability of young people to make intelligent decisions regarding personal, family, and community health. The course will focus on various important topics such as communicable and non-communicable diseases, healthier eating habits, substance abuse, personal safety, and first aid.

**Frequency of Course Offering:** This course is offered every school year.

**Textbook(s) Used:** None

**DEPARTMENT: Other****Course Name: Service Learning****Course #: 0500**# Credits: **1.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Approval from Guidance Counselor

**Course Description:** The Service Learning Program is designed to teach the student the value of helping others. Students must demonstrate the commitment, reliability and responsibility necessary to be a good volunteer or participant in a service program. Most students will be assigned to the elementary school to assist teachers at various grade levels. Some students may be assigned positions at the high school. Community Service may be considered under the Service Learning Program through special arrangements with the school and the community service organization. Course is a Pass/Fail offering.

**Frequency of Course Offering:** This course is offered every school year.

**Textbook(s) Used:** \_\_\_\_\_

**Course Name: Co-op****Course #: 0700**# Credits: **3.0**      Grade(s): 09   10   11   12**Course Length: 36 Weeks (1 Year)**Is College Credit Available for this Course?   Yes   NoIf "Yes", Which College/University? **N/A**

Prerequisite(s): Approval from Guidance Counselor

**Course Description:** This course is run by the CTC in Port Allegany. Eligible students attend school for part of the day and report to their place of employment for the remainder of the day. Student must be employed before the start of your Senior year. Your place of employment must have verifiable workmens compensation insurance.

**Frequency of Course Offering:** This course is offered every school year.

**Textbook(s) Used:** \_\_\_\_\_

**DEPARTMENT: Career and Technical Center**Course Name: **Automotive Mechanics**Course #: **0812**# Credits: **3.0**      Grade(s): 09 10 11 12Program Length: **3 Years**Certification: PA State Inspection LicensePrerequisite(s):Course Objectives:

- Service, repair, and maintain engines
- Work on valve trains, suspension, brakes, and exhaust systems
- Use current tools/equipment such as scanning tools and computerized front end aligner
- Prepare for a career as a Front End Mechanic, Brake Repairer, Transmission Specialist or Automobile Mechanic
- Students should have good mechanical problem solving and measurement skills and be willing to work in a sometimes dirty work environment

Course Name: **Building Construction Occupations**Course #: **0813**# Credits: **3.0**      Grade(s): 09 10 11 12Program Length: **3 Years**Certification:Prerequisite(s):Course Objectives:

- Build a residential house from the ground up
- Interpret blue prints and specifications
- Construct wood products and structures from rough lumber to finish grade
- Operate a wide range of hand power tools, air tools, and machines
- Prepare for a career as a Carpenter, Construction Carpenter, Construction Manager or Business Owner
- Students should have good measurement skills, be able to work at heights up to 50 feet and be willing to work in inclement weather

Course Name: **Early Childhood Education**Course #: **0820**# Credits: **3.0**      Grade(s): 09 10 11 12Program Length: **3 Years**Certification: Child Development Associate CredentialPrerequisite(s):Course Objectives:

- Early Childhood Education program is designed to teach students the aspects of teaching and working with young children
- Students will: explore career pathways and develop the characteristics of successful teachers/childcare providers
- Apply theoretical concepts to real-life situation
- Students will learn how to meet the developmental needs and interests of young children

Course Name: **Culinary Arts**Course #: **0814**# Credits: **3.0**      Grade(s): 09 10 11 12Program Length: **3 Years**



Certification: ServSafe Sanitation Certificate

Prerequisite(s):

Course Objectives:

- Work side-by-side with professional chefs
- Make gourmet foods with artistic presentation
- Participate in catering projects and in the operation of a full-service restaurant
- Prepare for a career as a Cook, Pastry Cook, Kitchen Helper or Waiter/Waitress
- Students must be willing to taste food, learn French cooking terminology, work in the public eye, and should have good measurement skills

Course Name: **Health Assistant**

Course #: **0816**

# Credits: **3.0**

Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification: Nurse Aide

Prerequisite(s):

Course Objectives:

- Work side-by-side with health care professionals
- Learn medical terminology and anatomy
- Practice hands-on care
- Gain clinical experience at long-term care facilities
- Prepare for a career as a Nurse Assistant or Medical Assistant
- Students must have a good health record and be able to accept and carry out precise orders

Course Name: **Heavy Equipment Maintenance**

Course #: **0817**

# Credits: **3.0**

Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification: PA State Inspection License

Prerequisite(s):

Course Objectives:

- Service, diagnose, repair, and rebuild trucks, tractors, logging and construction equipment
- Work on both gasoline and diesel powered engines
- Use arc welding, oxy/acetylene cutting, and fabrication techniques
- Prepare for a career as an Equipment Mechanic, Truck Mechanic, Equipment Manager or Parts Clerk
- Students should have good mechanical problem solving and measurement skills and be willing to work outside in inclement weather and in a sometimes dirty environment

Course Name: **Homeland Security**

Course #: **0821**

# Credits: **3.0**

Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification:

Prerequisite(s):

Course Objectives:

- Acquire skills from public safety areas of firefighting, law enforcement, and emergency services
- Receive instruction; participate in practical applications and situational learning experiences
- Prepare for national, state and local certifications in all three areas of public safety
- Refine personal career opportunities and choose personal career opportunities in an area of specialization of public safety

Course Name: **Engineering Technology (fka: Metal Working)**

Course #: **0818**

# Credits: **3.0**

Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification: NIMS Certification, Cisco Certified, A+, CompTIA

Prerequisite(s):

Course Objectives:

- Use mills, CNC mills, and Lathes
- Learn to use precision measurement tools
- Read blueprints or design parts and machine them to precise specifications
- Students should have good problem solving and good measurement skills
- Introduction to Engineering Design
- Computer Integrated Manufacturing
- Principles of Engineering
- Engineering Design & Development

Course Name: **Network Systems Technology**

Course #: **0810**

# Credits: **3.0**      Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification: Cisco Certified, A+, CompTIA

Prerequisite(s):

Course Objectives:

- Design, build, configure, and troubleshoot networks
- Program routers and switches
- Explore wireless and security methods
- Learn with interactive and hands-on activities through the Cisco Academy
- Prepare for a career as a Network Administrator, Technology Coordinator, Computer Support Specialist or Cable Installer
- Students should be enthusiastic about computers and technology, be able to communicate well with others, and have above average math, reading, and science abilities and excellent problem solving skills

Course Name: **Welding Technology**

Course #: **0819**

# Credits: **3.0**      Grade(s): 09 10 11 12

Program Length: **3 Years**

Certification:

Prerequisite(s):

Course Objectives:

- Use MIG, TIG, stick, and oxyfuel welding
- Perform oxyfuel and plasma cutting and air arc gouging
- Learn to choose the best welding and cutting process for the job at hand
- Prepare for a career as a Construction or Fabrication Welder
- Students should have good measurement skills and be willing to work outside and to get dirty

## **PC Now College Courses Available at the CTC (Please contact the CTC for more information):**

### **Automotive Mechanics**

AMT112 Brake Systems

AMT113 Steering and Suspension

### **Culinary Arts**

FHD118 ServSafe-Sanitation

**Heavy Equipment Maintenance**

DSM119 Fuel Systems

DSM141 Heavy Duty Brake Systems

**Network Systems Technology**

CSC124 Information, Technology, and Society (1<sup>st</sup> year students)

CIT112 Introduction to Gaming and Simulation (2<sup>nd</sup> year students)

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