OSWAYO VALLEY HIGH SCHOOL



2024-25 Course Directory

"Home of the Green Wave"

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. Students should work closely with the guidance department, school administration and parents to select course. Prior successes, failures, special individual interests, aptitude and future career plans should be considered when choosing courses. When available, 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.

Graduation Requirements

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

- a. CREDIT REQUIREMENTS
 - 1. A high school diploma will be presented to students meeting the following (minimum) course credit requirements:
 - English: 4 credits (to include grade level ELA)
 - **Social Studies**: 3 credits (to include US History, Government & Economics, and World History)
 - Math: 3 credits (to include Algebra and Geometry)
 - Science: 3 credits (to include Chemistry and Biology)
 - Physical Education/Health: (2 credits)
 - **Electives**: (9 credits)
 - Total: Equal or exceed 24 Credits
 - 2. Non-credit course requirements
 - a. **Cyber-Citizenship**. At the beginning of the school year students will complete a mandatory, non-credit course covering proper online and digital use of district technology. Topics will include but not be limited to District Policies, Cyber-Bullying, Email Etiquette, etc. Upon successful completion of the lesson assessments, students will have full access to their school accounts.
 - b. **Careers**. In fulfillment of Pennsylvania Career Readiness Standards students must complete a non-credit, P/F "Careers" course. Teachers will incorporate career-oriented activities into the regular curriculum. Beginning with their Freshman year, students will archive artifacts from stand-alone tasks that satisfy the four reporting categories of the state standards: #1 Career Readiness and Preparation; #2 Career Acquisition; #3 Career Retention and Advancement; and #4 Entrepreneurship. A faculty/staff mentor will guide students through the online course, culminating in successful submissions by the end of the Junior year.
 - c. **Work-Based Learning Experience** (WBLE). WBLE "provides an opportunity for students to reinforce their classroom learning, explore future career fields, and demonstrate their skills in a real-world setting" (PA Dept of Ed). By the end of their Senior year, students must complete and document one of the following WBLE: Job Shadowing; Internships or Practicums; Cooperative Education Programs; Career Mentoring; Apprenticeship. Specific information and guidelines for these will be provided to the student.
 - 3. Once students make their course requests for the upcoming school year, they may access them via the Student Portal during the summer. Requests for changes will be considered prior to the start of the school year based on the availability in the master schedule. Once the add/drop window closes, student schedules will be final.
 - 4. Dual Enrollment courses enables a student to earn both a high school and college credit for work completed at Oswayo Valley. Tuition will be assessed and must be paid to the college prior to starting the college portion of the class.

- b. STATE "PATHWAYS" TO GRADUATION. In accordance with Pennsylvania Dept of Education guidelines, students must complete one of the following 'pathways' for graduation:
 - 1. **Keystone Proficiency**. Score 'Proficient' or 'Advanced" on Keystone Exams (Algebra, Biology, Literature)
 - 2. **Keystone Composite**. Earn a satisfactory composite score (2939) on two of the Keystone Exams (neither of which may be Below Basic and at least one of which must be Proficient or better)
 - 3. **Alternate Assessment Pathway**. Successful completion of an Oswayo Valley High School Keystone course (Algebra, Biology, Literature) on which the student did not achieve proficiency and one of the following:
 - a. Attainment of an established score on an approved alternate assessment (SAT, PSAT, ACT, ASVAB)
 - b. Attainment of an established score on an Advance Placement Program in an academic content area associated with each Keystone Exam on which a student did not achieve at least a proficient score
 - c. Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score
 - d. Successful completion of a pre-apprenticeship program or acceptance into an accredited 4-year nonprofit institution of higher education and the evidence of the ability to enroll in college-level coursework
 - 4. **Evidence Based Pathway**. Successful completion of an Oswayo Valley High School Keystone course (Algebra, Biology, Literature) on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student's goals an career plans, including
 - a. One of the following: Attainment of an established score on an SAT subject test or Advanced Placement Program Exam; Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution; Attainment of an industry-recognized credential; Successful completion of a concurrent enrollment or postsecondary course
 - b. Two additional pieces of evidence, including one or more of the options listed above; satisfactory completion of a service-learning project; attainment of a score of proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum GPA of 2.0
 - 5. **CTE Pathway**. For Career and Technical Education (CTE) students, successful completion of an Oswayo Valley High School Keystone course (Algebra, Biology, Literature) on which the student did not achieve proficiency and attainment of an industry-based competency certification related to the CTE student's program of study or demonstration of a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.

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DEPARTMENT: Language Arts

Course Name: ELA 9				Course #: 1911
# Credits: 1.0	<u>Grade(s):</u> ⊠ 09	□10 □11	□12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this		⊠No		If "Yes", Which College/University? N/A
Prerequisite(s): ELA 8	<u>-0001301.</u>			Tes , Which conegoromiversity:
Course Description: "English 9" for Literary Texts, including poetry as Speaking and Listening (1.5). But basics: parts of speech and senter clear topic sentences, including the S). Next are short essays, both rewriting process throughout the year of key ideas/details (1.2/1.3 A – Confort argument, theme, idea develot for comprehension and for vocabut independently (1.2/1.3 K, L). In a English (1.5 A, E, G), listen analyte E). Frequency of Course Offering: The	and drama (1.3); Vuilding on 8th gradence structure (1.4 ne skill of composinesponse- and resear (1.4 T, X). The resultance and craft/structure pment and sourcesulary acquisition (1.4 ddition, students autically to presentation is course is offered	Vriting Informate work, the widen, the widence-based (1.eading strand re (1.2/1.3 D - s, and genre a 2 I - K, 1.3 I, Jone expected to ons (1.5 B, C)	ational, Persuasiveriting strand of the R). Students progrased constructed 4 A – D, G- J, M-Finvolves learning F). Students and period (1.2 G-) and will read a sparticipate in class and make at least	eading Informational Texts (1.2) and e, and Argumentative modes (1.4); and e course begins with review of language ress to a review of paragraph writing with responses to open-ended questions (1.4 P, U - W). Students use a revision-based and using literary terminology for analysis alyze both informational and literary texts I; 1.3 G, H). Students will use strategies pectrum of informational and literary texts as discussion using appropriate Standard tone research-based presentation 1.5 D,
Textbook(s) Used: Prentice Hall I	<u> literature Gold Lev</u>	<u>'el</u>		
Course Name: ELA 10 # Credits: 1.0	<u>Grade(s):</u>	⊠10 □11	□12	Course #: 1011 Course Length: 36 Weeks (1 Year)
Is College Credit Available for this Prerequisite(s): English 9	Course? Yes	⊠No		If "Yes", Which College/University? N/A
Course Description: Sophomore course, students continue to fo included within the literature in or students explore similar themes, perform several writing types, incl poetry, drama, novel, and nonfiction	decus on organizing order to enable studing relate ideas prese uding narrative, infon, are used as bacits, students also anotuation will be emis course is offered	g and transition ents to approact nted in the cla cormative, and ckground for the re required to apphasized in al	ning their essays ach them in a real assroom to the repersuasive. Liter are written and oral complete a thesis I activities.	year. Throughout the 10th grade ELA s. Furthermore, writing and grammar are listic manner. Within the literature units, all world, complete various projects, and ature, including the genres of short story, I portions of the course. In addition to the paper, as part of the class requirements.
Course Name: Practical Engli	ish			<u>Course #:</u> 1111
# Credits: 1.0	<u>Grade(s):</u>	□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): English 10				
	to focus on building		skills as they exp	the 10th grade year. Throughout the 2- blore American Literature. Understanding

Course Description: Practical English is a possible 2-year offering that builds upon the 10th grade year. Throughout the 2-year 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 offeredevery school year.

Textbook(s) Used: Prentice Hall Literature: Timeless Voices, Timeless Themes (The American Experience)

Course Name: College English Co	mposition (DE))		Course #: 1221
# Credits: 1.0 Grade	e(s): 09 10	⊠11 [⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this Cours	<u>se?</u> ⊠Yes □N	lo	If "Yes	", Which College/University? Pitt-Bradford
Prerequisite(s): English 10 and at least	a "B" cumulative a	verage in E	English(grad	es 9-10)
argument. Throughout this course, studideas to real-world applications. Gram required on a weekly basis in order to buand write a literary response paper, inco	lents will be requir mar, punctuation, ild quality writing. I rporating quoted e in order to earn co	ed to write current ev In addition vidence to llege credi	e essays, pe vent present to these req o connect its it. Currently	g through research, analysis, grammar, and er edit, revise submitted work, and connect ations, and paragraph submissions will be uirements, students will read a classic novel universal theme to current social or political the cost is \$125, but is subject to change. urse will be offered 24-25
Textbook(s) Used:	,			
Is College Credit Available for this Course Prerequisite(s): English 10 and at least Course Description: Throughout the sunderstanding of characterization, plotessays, short stories and poems will prove graded discussions, memorization, dram	e(s):	verage in E year, stud suspense to portunity to and extem the class in	English (graced dents will footechniques, to compare to poraneous some conder to each	cus on literature in order to build a better and figurative language. A combination of nemes across genres. Writing assignments, speeches will enable students to build better rn college credit. Currently the cost is \$125,
Textbook(s) Used:			,	
Course Name: Public Speaking an		⊠ 44 [[]	⊠ 42	Course #: TBD
	<u>e(s):</u>		⊠12	Course Length: 36 Weeks (1 Year)
<u>Is College Credit Available for this Cours</u> Prerequisite(s): English 10	<u>er</u> ∐tes ⊠N	10		If "Yes", Which College/University? N/A
 _ •	rolon kov oommur	signation of	villa aggantia	I for offeetive expression and information
Course Description: Students will dev				Il for effective expression and information

Course Description: students will develop key communication skills essential for effective expression and information dissemination. They will learn the art of crafting and delivering compelling speeches, focusing on elements such as organization, clarity, and persuasion. The course will also delve into the principles of journalism, teaching students how to research, write, and edit news articles with accuracy and integrity. Students will explore different media formats, including print, digital, and broadcast journalism, and understand the ethical responsibilities of journalists. Through practical exercises and projects, students will enhance their confidence in public speaking, hone their writing skills, and gain a comprehensive understanding of the role of media in society.

Frequency of Course Offering: Course will be offered in 24-25

DEPARTMENT: Foreign Language

On	line	Offeri	ngs:

Course Name: French I Course #: 3921 # Credits: 1.0 Grade(s): **309** \square 10 \square 11 \square 12 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A Prerequisite(s): None Course Description: These courses are based on a researched scope and sequence that covers the essential concepts of French. Class discussions provide an opportunity for discourse on specific topics in French. A key support tool is the Audio Recording Tool that enables students to learn a critical skill for French: listening and speaking. Beginning with learning personal greetings and continuing through practical communications exchanges, French 1B introduces students to the skills necessary to make the most of traveling to French-speaking countries. (Edmentum Online) Frequency of Course Offering: This course is offeredevery school year. Textbook(s) Used: Edmentum Online Course Name: French II Course #: **3922** # Credits: 1.0 Grade(s): \square 09 \boxtimes 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A Prerequisite(s): French I Course Description: Each of these semesters is designed to build on the principles mastered in French 1 and use a combination of online curriculum, electronic learning activities, and supporting interactive activities to fully engage learners. Unit pretests, post-tests, and end-of-semester tests identify strengths and weaknesses, helping to create a more personalized and effective learning experience. As with French 1, these 90-day courses emphasize practical communication skills while also building intercultural awareness and sensitivity. (Edmentum Online) Frequency of Course Offering: This course is offeredevery school year. Textbook(s) Used: Edmentum Online Course Name: German I Course #: 3931 # Credits: 1.0 Grade(s): \boxtimes 09 \boxtimes 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A Prerequisite(s): None Course Description: As with all Edmentum world language courses, German 1 A and B address two primary issues: providing a meaningful context that encourages learners to think in the target language as much as possible; and introducing grammatical concepts without over reliance on grammatical analysis. German 1A focuses on communicating basic and practical greetings and personal information. German 1B consists of five units over about 14 weeks, with an emphasis on a variety of practice types throughout the course. (Edmentum Online) Frequency of Course Offering: This course is offeredevery school year. Textbook(s) Used: Edmentum Online Course Name: German II Course #: **3932** \boxtimes 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) # Credits: 1.0 Grade(s): **09** Is College Credit Available for this Course? Yes If "Yes", Which College/University? N/A Prerequisite(s): German I Course Description: According to The Economist and the Census Bureau, German-American is America's largest single ethnic group, with over 46 million Americans claiming German Ancestry. German 2 A and B tap into learners' latent interest in their

cultural past, present, and future. These courses employ direct instruction approaches, including application of the target language through activities. Each unit in the course includes a predefined discussion topic. These discussions provide an opportunity for discourse on specific topics in German. (Edmentum Online)

<u>Frequency of Course Offering:</u> This course is offeredevery school year.

Course Name: Spanish I

Course #: 3911

Credits: 1.0

Grade(s): \boxtimes 09 \boxtimes 10 \boxtimes 11 \boxtimes 12

⊠No

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

Course Length: 36 Weeks (1 Year)

Prerequisite(s): German I

Course Description: Learning a new language is a multi-faceted experience in which you are introduced to a whole new set of words and ways of expressing yourself with words, along with new cultures formed by people who have been speaking that language for centuries. The Spanish-speaking world is vast and rich, spanning Spain in the Iberian Peninsula and many parts of North, Central, and South America, all with varied ethnic and political histories and cultures. In Spanish 1A, students will be introduced to several common situations in which people communicate, such as exchanging names and greetings, describing people by physical and personality traits, and describing family members and aspects of social life. Students will start with basic sentence structures and grammatical tools, and they will learn to communicate by listening, speaking, reading, and writing in Spanish as they learn new vocabulary and grammar. They will also learn about some regions of the Spanish-speaking world that the central characters of each unit are visiting. In Spanish 1B, students will be introduced to several common situations in which people describe how to earn, save, and manage money, modes of urban transportation, various seasons and the associated weather conditions, food, clothes, and activities. (Edmentum Online)

Frequency of Course Offering: This course is offeredevery school year.

Textbook(s) Used: Edmentum Online

Course Name: Spanish II

Course #: 3912

Credits: 1.0

Grade(s): **□09**

 \boxtimes 10 \boxtimes 11

Course Length: 36 Weeks (1 Year)

Is College Credit Available for this Course?

Yes \boxtimes No If "Yes", Which College/University? N/A

Prerequisite(s): German I

Course Description: Spanish 2A and B utilize three assessment tools that are designed specifically to address communication using the target language: Lesson Activities, Unit Activities, and Discussions. These tools help ensure language and concept mastery as students grow in their understanding and use of Spanish. Learning games specifically designed for language learning are used and can be accessed on a wide variety of devices. (Edmentum Online)

Frequency of Course Offering: This course is offeredevery school year.

Textbook(s) Used: Edmentum Online

DEPARTMENT: Mathematics

Course Name: Pre-Algebra						<u>Course #:</u> 2911
# Credits: 1.0	Grade(s):	⊠09	□10	□11	□12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	s Course?	∐ Yes	⊠No)		If "Yes", Which College/University? N/A
Prerequisite(s): 8th Grade Math	or Teacher	recomm	nendatio	n		
Eighth Grade Math and to prepa covered will include expressions,	are the stud , equations a nials; factor	lents for and fund ing; gra	the mactions; caphing f	ath cond order of	cepts and operation	ent's knowledge of mathematics as developed in I topics that will be taught in Algebra I. Topics ns; properties; operations with rational numbers; g and graphing linear equations; inequalities;
Frequency of Course Offering: Th	nis course is	offered	levery s	chool ye	ear.	
Textbook(s) Used: Algebra 1 -M	lcDougall Lit	<u>ttel</u>				
Course Name: Algebra I						Course #: 2900
# Credits: 1.0	Grade(s):	⊠09	⊠10	□11	□12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	s Course?	□Yes	oxtimesNo)		If "Yes", Which College/University? N/A
	'Adv on 8 th g	ırade EL	_A PSS/			ntering grade 9: Student must meet three of the 8 th grade Math PSSA 3.) Earn a yearly average
Eighth Grade Math and/or Pre-Alg	gebra to pre _l e operations	pare the s with re	student	ts for the	e math co	nt's knowledge of mathematics as developed in incepts that are tested on the Algebra 1 Keystone ions, linear equations and inequalities, functions
Frequency of Course Offering: The	nis course is	offered	levery s	chool ye	ear.	
Textbook(s) Used: Algebra 1 –A.	C.E Houg	ghton, M	1ifflin, Ho	orcourt		
Course Name: Geometry						<u>Course #:</u> 2042
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	s Course?	∐ Yes	⊠No)		If "Yes", Which College/University? N/A
Prerequisite(s): Algebra 1 comple	etion					
	asic geomet	tric con				ve and deductive reasoning and logic. Additional specifies, problem solving, analytic geometry, algebra,
Frequency of Course Offering: The	nis course is	offered	levery s	chool ye	ear.	
$\underline{Textbook(s)\;Used}\colon\;\underline{Geometry-N}$	<u> ∕IcDougal Li</u>	<u>ittell</u>				
Almahma II /DE	•					0 " 0400
Course Name: Algebra II (DE	•		N/40	⊠ 44	⊠ 40	Course I aparth 26 Weeks (4 Year)
# Credits: 1.0	Grade(s):		⊠10 □Na	_	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this			□No		·	"Yes", Which College/University? Pitt-Bradford
logarithmic-and their graphs, ratio	covered in onal expres	n college sions, li	e Algeb near an	ra II ar d comp	e function	ns - linear, radical, quadratic, exponential, and qualities, rational exponents, solving systems of e class in order to earn college credit. Currently
Frequency of Course Offering: The	nis course is	offered	levery s	chool ye	ear.	
Textbook(s) Used:						

Course Name: Pre-Calcu	lus (DE)			<u>Course #:</u> 2211
# Credits: 1.0	<u>Grade(s):</u>	□10 ⊠11	⊠12	Course Length: 36 Weeks (1 Year)
ls College Credit Available f	or this Course? XYes	⊠No	<u>If</u>	"Yes", Which College/University? Pitt-Bradford
Prerequisite(s): Algebra II w	ith teacher recommend	ation.		
The material is presented an explore various topics covologarithmic functions, and tricare introduced. This college algebra, functions and gra	nalytically, graphically, a ered. Topics covered gonometry, including trig e course is worth 4 coll phs, polynomial funtior	and algebraical include functi gonometric gra lege credits. ns, rathional f	ly. The us ons and phs, ident The collec unctions,	e of graphing calculators is used to visualize and their inversed, applications of exponential and ities, and equations. Sequence, series, and limits ge description is: the topics include intermediate inverse functions, logarithmic and exponential nge. Student does not have to take Pre-Calc for
Frequency of Course Offering	<u>ig:</u> This course is offered	devery school	year.	
Textbook(s) Used: Pre-Cald	ulus with Limits			
Course Name: Calculus (# Credits: 1.0 Is College Credit Available for Prerequisite(s): Teacher red	Grade(s): □09 or this Course? ⊠Yes	1011 :No	_	Course #: 2213 Course Length: 36 Weeks (1 Year) "Yes", Which College/University? Pitt-Bradford
Course Description: We warpplications. It is recomme	ill study limits, continuit nded that each student	have their ow	n scientifi	tegral of functions of a single variable and their c calculator. There is a cost to take the class in inge. Student does not have to take Calculus for
Frequency of Course Offering	<u>ıg:</u> This course is offered	devery school	year.	
Textbook(s) Used: Universi	ty of Pittsburgh at Bradf	ord Calculus T	<u>extbook</u>	
Course Name: Personal I	- inance			<u>Course #:</u> 2111
# Credits: 1.0	<u>Grade(s):</u>	□10 □11	⊠12	Course Length: 36 Weeks (1 Year)
<u>Is College Credit Available f</u>				If "Yes", Which College/University? N/A
Prerequisite(s): Algebra 1 o	r teacher recommendat	ion.		

<u>Course Description</u>: Students will gain essential skills for managing their personal financial affairs. They will learn the fundamentals of budgeting, saving, and investing, as well as how to understand and manage credit, loans, and debt. The course will cover topics such as the importance of setting financial goals, the principles of responsible spending, and strategies for building wealth over time. Additionally, students will explore the impact of taxes, insurance, and retirement planning on their financial future. By the end of the course, students will be equipped with the knowledge and tools necessary to make informed financial decisions and establish a solid foundation for their financial well-being.

Frequency of Course Offering: This course is offeredevery school year.

Textbook(s) Used: Math Matters 2

Course Name: Statistics (DE) Course #: 2220 # Credits: 1.0 Grade(s): \square 09 \boxtimes 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) Is College Credit Available for this Course? XYes 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 offeredevery other school year. This course offered 25-26. Textbook(s) Used: Elementary Statistics, Picturing the World Course Name: Trigonometry (DE) Course #: 2002 # Credits: 1.0 Grade(s): **09** \boxtimes 10 \boxtimes 11 Course Length: 36 Weeks (1 Year) \boxtimes 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 offeredevery other school year. This course offered 24-25 Textbook(s) Used: Elementary Statistics

DEPARTMENT: Science

Course Name: Chemistry		Course #: 4172
#Credits: 1.0 Grade(s): \(\sum 09 \) \(\sum 10 \) \(\sum 11 \)	12 Course Leng	gth: 36 Weeks (1 Year)
Is College Credit Available for this Course? Yes No	If "Yes", Which (College/University? N/A
Prerequisite(s):		
<u>Course Description</u> : This course studies the composition, structure Topics studied include mixtures, atomic theory, behavior of electro reactions, and gases. Classroom material is supplemented with lal	s, periodic trends, the mole, cher	
Frequency of Course Offering: This course is offeredevery school y	ar.	
<u>Textbook(s) Used</u> : <u>Pearson Chemistry (Foundation Edition)</u> , Pears	<u>on, 2012</u>	
Course Name: Biology I		Course #: 4911
# Credits: 1.0 <u>Grade(s):</u> □09 ⊠10 □11		gth: 36 Weeks (1 Year)
Is College Credit Available for this Course?	<u>If "Yes", Which (</u>	College/University? N/A
<u>Prerequisite(s)</u> : Students must meet three of the four below criteria: on 8th grade PSSA ELA exam, 3. 80% or higher in 9th grade Che		
<u>Course Description</u> : A sophomore introductory biology course Pennsylvania Keystone Standards. The curriculum includes units in homeostasis and transport, DNA, RNA, and protein synthesis, contechnologies, evolution, and ecology.	basic biological principles, bioch	nemistry, bio-energetics,
**This course results in the administration of the Keystone Biology E	cam in the Spring. This exam is a	graduation requirement.
Frequency of Course Offering: This course is offeredevery school y	· -	
Textbook(s) Used: Modern Biology: Holt 2005		
Course Name: Physics		Course #: 4212
# Credits: 1.0 <u>Grade(s):</u> 091011	⊠ 12 Course Leng	gth: 36 Weeks (1 Year)
Is College Credit Available for this Course?	<u>If "Yes", Which (</u>	College/University? N/A
Prerequisite(s): Biology and Algebra II		
<u>Course Description</u> : Physics is the study of matter and energy a Motion, Circular Motion, Forces, Simple Machines, Heat, Waves material will be supplemented with laboratory experiments.		
Frequency of Course Offering: This course is offeredevery school y	ar.	
Textbook(s) Used: Foundations of Physics. CPO Science, 2004		
Course Name: Biology II		Course #: 4211
# Credits: 1.0 Grade(s): \square 09 \square 10 \square 11	∑12 <u>Course Leng</u>	gth: 36 Weeks (1 Year)
Is College Credit Available for this Course? ☐Yes ☐No	If "Yes", Which (College/University? N/A
<u>Prerequisite(s)</u> : Biology I and Chemistry		
<u>Course Description</u> : The biology sequence covers basic botany, baranatomy and physiology	cteriology, virology, mycology, pro	otists, and organ system
Frequency of Course Offering: This course is offeredevery school y	ar.	
Textbook(s) Used: Modern Biology: Holt 2005		

Course Name: Cond	cepts of Biology (D	DE)				<u>Course #:</u> 4213
# Credits: 1.0	<u>Grade(s):</u>	□09	<u> </u>	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Ava	ilable for this Course?	⊠Yes	□No)		If "Yes", Which College/University? Pitt-Bradford
Prerequisite(s): Biolo	ogy I, Chemistry, and Te	eacher re	ecomme	endatio	n	
as a dual enrollment of teacher approval and concepts providing si	course through the University of University of the University of Universit	ersity of F etter ave derstand	Pittsbur erage ir ling of h	gh. Se n the pi how bio	niors m rerequisology re	not included) course for non-science major offered ay earn the option of taking this course by obtaining site courses. The course is a survey of biological slates to everyday life. There is a cost to take the ect to change.
Frequency of Course	Offering: This course is	offered	every o	ther scl	nool ye	ar. This course offered 24-25.
						J. (2004). Essential Biology, 4/e, San Francisco:
Pearson/Benjamin Co	ummings. And Current l	ssues in	Biology	y, Vol. 2	2, Scier	ntific American.
<u> </u>	omy and Physiolo		_	_	_	<u>Course #:</u> 4001
# Credits: 1.0	<u>Grade(s):</u>		<u> </u>		⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Ava	ilable for this Course?	Yes	\boxtimes No)		If "Yes", Which College/University? N/A
Prerequisite(s):						
<u>Course Description</u> : 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 o	ther sch	nool ye	ar. This course offered 24-25.
Textbook(s) Used:						
Course Name: Envi	ronmental Science					<u>Course #:</u> 4011
# Credits: 1.0	<u>Grade(s):</u>	□09	□10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Ava	ilable for this Course?	☐Yes	$oxed{oxed}$ No)		If "Yes", Which College/University? N/A
Prerequisite(s):						
						to provide students with the scientific principles, nips of the natural world, to identify and analyze

Course Description: The goal of the Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas of study. **Special note: This course may also be offered as .50 credit. The decision to offer as a 1.0 credit or .50 credit course will be based upon availability. This course may also be offered in conjunction with Keystone Biology if offered as .50 credit.**

Frequency of Course Offering: This course is offered every other school year. This course offered 25-26.

Textbook(s) Used: Environmental Science: Holt 2004

DEPARTMENT: Social Studies

Course Name: US History (Civil War-Present)	Course #: 6911
# Credits: 1.0 <u>Grade(s):</u> ⊠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): None	
Course Description: This course covers the history the United States from the student's ability to analyze and develop the skills of chronological thinking, compr student will study the political and cultural contributions of individuals and groups, history, primary documents, material artifacts and historical places, and conflict organizations as seen through US History.	ehension, interpretation, and research. The how continuity and change have influenced
Frequency of Course Offering: This course is offeredevery school year.	
Textbook(s) Used: US History-Civil War to the Present (Holt McDougal)	
Course Name: Government & Economics	<u>Course #:</u> 6121
# Credits: 1.0 <u>Grade(s):</u> □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): None	
Science. The Economics component provides the students the opportunity to exto analyze the forces affecting markets and the functions of governmental action choose to use scarce, limited resources, to connect and relate economic decision consequences to economic decisions. The Government portion of the course proand understand the principles and documents of government (both domestic arcitizenship, how government works, and how international relations function. The traces the development of government, comparative as it identifies similarities and as it connects academic facts with real life situations, and evaluative as it requires at the end of this course students take a civics test in fulfillment of PA Act 35 requirements of Course Offering: This course is offeredevery school year. Textbook(s) Used: World History and Geography (McGraw-Hill)	is in the economy, to determine how people ins both domestic and foreign, and to assign ovides opportunities for the student to know and foreign), the rights and responsibilities of the content is designed to be historical as it differences between governments, practical students to analyze and interpret information.
O N. World History	0 " 2244
Course Name: World History	Course #: 6011
# Credits: 1.0 Grade(s): □09 □10 ⊠11 ⊠12 Is College Credit Available for this Course? □Yes ⊠No	Course Length: 36 Weeks (1 Year)
<u>Is College Credit Available for this Course?</u>	If "Yes", Which College/University? N/A
Course Description: This course covers the history of the world. It addresses thistorical skills of chronological thinking, comprehension, interpretation and researcultural contributions of individuals and groups, how continuity and change has material artifacts and historical places, and conflict and cooperation among social the history of the world. Frequency of Course Offering: This course is offeredevery school year.	arch. The student will study the political and ave influenced history, primary documents,
Textbook(s) Used: World History and Geography (McGraw-Hill)	

Course Name: Recent and	Contemporary A	merica		<u>Course #:</u> 6040
# Credits: 1.0	<u>Grade(s):</u>	\boxtimes 10 \boxtimes 11	⊠12	Course Length: 36 Weeks (1 Year)
ls College Credit Available for t	his Course? Yes	⊠No		If "Yes", Which College/University? N/A
Prerequisite(s): None				
of the World War Era and bring War", "The Civil Rights Movem documents, material artifacts, a	gs the student as clo ent", ect). Throughor and historical places, change have influence	se to the prese ut the course the to study the po eed history, and	ent as possible. ne student will b plitical and cultu I to interpret col	tory since 1945. It begins with an overview It utilizes thematic history (e.g. "The Cold be given the opportunity to examine primary ural contributions of individuals and groups, inflict and cooperation among social groups
Frequency of Course Offering:	This course is offered	devery fourth ye	ear. <mark>This cour</mark>	se is offered in 2024-25
Textbook(s) Used: United Stat	es History; Preparing	ı for the Advand	ced Placement	<u>Examination</u>
Course Name: Psychology	Sociology			Course #: 6030
# Credits: 1.0	<u>Grade(s):</u>	⊠10 ⊠11	⊠12	Course Length: 36 Weeks (1 Year)
ls College Credit Available for t	his Course? Yes	⊠No		If "Yes", Which College/University? N/A
Prerequisite(s):				
semester emphasizing man's u course, it serves as a primer for	understanding of his college prep student The course touche	relations with outs. A basic knows basic princip	others (Sociolog wledge of how	erstanding of himself (Psychology) and one gy). Designed primarily as an introductory and why man does what he does enhances a same time offers more in-depth study as
Frequency of Course Offering:	This course is offered	devery other so	hool year. <mark>This</mark>	s course is offered in 2025-26.
Textbook(s) Used: Sociology a	ind You (Glencoe); r	no Psychology	<u>text</u>	
<u>Course Name:</u> History on F	ilm			<u>Course #:</u> 6050
# Credits: 1.0	<u>Grade(s):</u>	⊠10 ⊠11	⊠12	Course Length: 36 Weeks (1 Year)
ls College Credit Available for t	his Course? Yes	⊠No		If "Yes", Which College/University? N/A
advances, information—both in film; this course aims to optim	content and present ize the educational v , puts film topics in hi	tation—likewise value of "enter storical perspe	e expands. Hist ainment" vehic	trayals of historical events. As technology torical topics have been a central theme on les as the student analyzes differences in es content of films to contrast the accuracies

with artistic license, and develops an appreciation for history.

Frequency of Course Offering: This course is offeredevery fourth year.

Textbook(s) Used: None

DEPARTMENT: Business and STEM

Course Name: Accounting I						<u>Course #:</u> 5121
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this			⊠No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
recording of business transactions simple financial statements. The s statements and keep simple payro	s. It prepare tudent will oll records.	es one to complet Student	o keep fote the the the the the the the the the t	ormal becounting require	ooks of eng cycle, and to do	e-entry bookkeeping. It covers the analysis and entry such as journals and ledgers, and to prepare learn to write checks and receipts, reconcile bank accurate and timely assignments to prepare them through a simulation project done both manually
Frequency of Course Offering: Th	is course o	ffered ir	า 24-25			
Textbook(s) Used: South-Wester	n Century 2	21 Acco	unting -	- Gener	al Journa	<u>al</u>
Course Name: Accounting II						<u>Course #:</u> 5122
# Credits: 1.0	Grade(s):	□09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this			_ ⊠No	 o		If "Yes", Which College/University? N/A
Prerequisite(s): Accounting I						-
Each assignment builds upon prio timely assignments to prepare the they need to understand the theorem.	r lessons a m for real-v y behind th	nd goes world Ad ne work	into ad ccountin and this	vanced ig Applio s class v	detail. <i>A</i> cations. I	in Accounting I and wish to go to the next level. Again, students will be required to do accurate and Even if they use an automated accounting system are them.
Frequency of Course Offering: Th	is course n	ot offere	ed in 24	<mark>-25</mark>		
Textbook(s) Used: Microsoft Office	e 2007: Th	ne Perfo	rming S	Series 20	008 Cou	rse Technology, Cengage Learning
Course Name: Intro to Compu	uter Scie	nce				Course #: 5200
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	☐Yes	\boxtimes No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
computer programming along with develop the ability to solve comple central elements of computer scie further study in computer science course allows students to work in	the basics ex problemence. It give, inclusing dependent a video) inc	of comps. This es a fou AP Colly in texter dividuals	outer sc course undation mputer kt-based s from c	ience. covers in the Science Pythor different	The mate the basic tools use e Princip n. The c industrie	mputer science. Students will learn the basics of erial emphasizes computational thinking and helps to building blocks of programming along with other ed in computer science and prepares students for bles and AP Computer Science A courses. The course also includes a career focus, where at the es who work in coding (medical, music, etc).
Textbook(s) Used: Online course			,	,		
Course Name: Intro to Engine	erina					<u>Course #:</u> 4100
# Credits: 1.0	Grade(s):	□09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this			⊠No		△	If "Yes", Which College/University? N/A
Prerequisite(s):	304.001			-		ii 100 ; 11mon domogo/oniverenty:
	describes t	the field	of engi	neering	and end	gineering technology allowing students to explore
technology systems and design p	rocessess.	Throug	gh the c	course s	tudents	will use math, science, technology, and writing to uires substantial participation by all students. the

course also emphasizes team work, oral and written communication, and the impact technology has on society. This course

Frequency of Course Offering: This course is offeredevery school year.

is not eligible to be counted as a Science credit for graduation requirements.

Textbook(s) Used:

Course Name: STEM /Intro to	Aviation	1				<u>Course #:</u> 4101
# Credits: 1.0	Grade(s):	□ 09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	☐Yes	\boxtimes N	0		If "Yes", Which College/University? N/A
Prerequisite(s):						
"advanced exploration in the area students will complete several technological innovation while ga course also will provide some ex available for students seeking an a on the engineering process and a ideas within the educational world	s of flying, a engineering ining a hist posure to laviation-relapush for stud.	aerospa g-based orical p real-wor ated car udents to	ice eng activit erspect Id chal eer. Be o embra	ineering ties whi ive on t lenges v ecause t ace trial	, and unn ch requir he earlies within the his is a ST	a School STEM class will provide the framework manned aircraft systems." Throughout the course re problem solving, application of knowledge, at inventions to the current aircraft designs. This aviation world and the possible career options TEM-based class, there will be a strong emphasis in order succeed as they seek to bring innovative
Frequency of Course Offering: Th	is course	not offe	red 24	-25 .		
Course Name: Computer Scientific Course Name: Computer Scientific Course Name: Computer Scientific Course Name: Course Name: Course Name: Course Name: Computer Scientific Course Name:	ence A					<u>Course #:</u> 5201
# Credits: 1.0	Grade(s):	□ 09	<u> </u>	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	Yes	\boxtimes N	0		If "Yes", Which College/University? N/A
Prerequisite(s): Algebra I is requi	red and Alç	gebra II	is highly	y recom	mended a	along with teacher recommendation
Java requires a good mathematica computer programs that solve pro A teaches object-oriented program	al backgrou bblems relev nming using ce. It will	and and want to to to the depth of the Jaren empha	strong p oday's s va lang size pr	oroblem society, uage an oblem-s	-solving s including d is mear solving a	de students who are serious about programming. kills. Students will learn to design and implement art, media, and engineering. Computer Science at to be the equivalent of a first semester, collegend algorithm development, and use hands-on d solve complex problems.
Frequency of Course Offering: The	is course is	offered	levery o	other scl	nool year	This course offered in 25-26.
Textbook(s) Used:						
Course Name: Digital Fabrica	ation					<u>Course #:</u>
# Credits: 1.0	Grade(s):	□09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	☐Yes	\boxtimes N	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
on complex projects that combine The course will challenge student	multiple fa	brication reatively	n techni and ex	iques, si kplore in	uch as las	, 3D printers, and vinyl cutters. Students will work ser-cutting components for 3D-printed structures. applications for these technologies.
Frequency of Course Offering: Th	is course is	offered	l every	year		
Textbook(s) Used:						

DEPARTMENT: Fine and Practical Arts

Course Name: Culinary Arts						<u>Course #:</u> 8814
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	□Yes	\boxtimes No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
craftsmanship of making food app pies, candies, meats & poultry, eg etiquette. Emphasis will be place	pealing in m gs, and mu d on correc	nany diff och more t techni	erent ar e. You v ques an	reas inc will also nd the m	luding: a explore astery o	<u>-</u>
Frequency of Course Offering: Th	is course is	offered	devery o	ther sch	nool yea	r,. This course offered in 25-26.
Textbook(s) Used: None						
Caurea Namas Food Saignoo						Cauras # 9945
Course Name: Food Science	C == d = (=) .	∇	⊠ 40	⊠ 44	M40	Course #: 8815
# Credits: 1.0	Grade(s):		⊠10 ⊠No		⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this Prerequisite(s): None	Course !	∟res		,		If "Yes", Which College/University? N/A
Course Description: Also known composition of foods, how those many areas including: sensory e goods, sugars and crystal format cheese making, fats and emulsified	foods react valuation (y ion, food p ers, egg foa	to one our tas reserva ms, and	anothe te buds tion (ca d much	r during s), nutrit nning, o more!	cooking ional va dehydra	ience involves the examination of the chemical g, and how foods become YOU! You will explore lues of foods, the effects of ingredients in baked ting, concentrating, freezing), microbes in yogurt, r,. This course offered in 24-25.
Course Name: Family Econor	mics					<u>Course #:</u> 8816
# Credits: 1.0	Grade(s):	□09	□10	⊠11	□12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	□Yes	\boxtimes No	ס		If "Yes", Which College/University? N/A
Prerequisite(s): None						
Personal Finances such as Savin	gs, Checkir t, The Fam bout both;	ng, Cred nily Life and mo	lit, and l Cycle a re.	how to E and how	Build a E to Bala	ave the opportunity to learn about the following: Budget; Developing Personal Relationships; Living ance Family Life with Work; Renting vs. Buying a
Textbook(s) Used: None	10 000100 10	Oncide	icvory o	orioor y	our.	
<u>1000000000000000000000000000000000000</u>						
Course Name: Working with	Children	l				<u>Course #:</u> 8535
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	Course?	□Yes	\boxtimes No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
whether it be a caregiver, a pres	school teac	her/mar	nager, c	or an el	ementar	d and/or prepare for careers in Early Childhood- y teacher. Topics will include social, emotional, udents 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.

<u>Frequency of Course Offering:</u> This course is offeredevery other school year. **This course offered in 24-25.**

Textbook(s) Used: Parenting: Rewards & Responsibilities and Working with Young Children

Course Name: Housing & Interior Design	<u>Course #:</u> 8813
# Credits: 1.0 Grade(s): \bigcirc 09 \bigcirc 10 \bigcirc 11 \bigcirc 12	Course Length: 36 Weeks (1 Year)
<u>Is College Credit Available for this Course?</u>	If "Yes", Which College/University? N/A
<u>Prerequisite(s)</u> : None	
<u>Course Description</u> : Students will discover and learn about space and design to save money and make realistic purchases regarding homes. Topics of disc color and its effects, furnishing, window treatments, renting vs. buying, family today's home buying market.	ussion include elements and principles of design
Frequency of Course Offering: This course not offered 24-25.	
Textbook(s) Used: Homes with Character	
Course Name: Graphic Design/Photography	<u>Course #:</u> 7574
# 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): None	
<u>Course Description</u> : This is a year-long course covering an extensive range learn about design elements and principles while completing graphic design contemporary (digital) technologies. The design elements and principles we explore film photography and darkroom development, digital photography and the development and production of animation and movie-making.	n projects using traditional (cut-and-paste), and vill be used throughout this course as students
**Projects subject to change at teacher discretion	
Fraguency of Course Offering, This source is offered every school year.	may only take one Art class per year
<u>Frequency of Course Offering:</u> This course is offeredevery school year. You	may only take one Art class per year.
Textbook(s) Used:	may only take one Art class per year.
Textbook(s) Used:	Course #: 7562
Textbook(s) Used: Course Name: Drawing and Painting	<u>Course #:</u> 7562
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0 Grade(s): ⊠09 ⊠10 ⊠11 ⊠12	Course #: 7562 Course Length: 36 Weeks (1 Year)
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0 Grade(s): □09 □10 □11 □12	<u>Course #:</u> 7562
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0 Grade(s): □ 09 □ 10 □ 11 □ 12 Is College Credit Available for this Course? □ Yes □ No	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will range of projects. Projects may include, but are ohite drawing, color pencil drawing, watercolo pastel drawing.
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0 Grade(s): ○09 ○10 ○11 ○12 Is College Credit Available for this Course? ☐Yes ○No Prerequisite(s): None Course Description: This is a year-long course covering a range of tradition explore a variety of drawing and painting techniques while completing a wide not limited to, perspective drawing, oil painting, line design, charcoal/grap painting, illustration, acrylic painting, ink drawing, Chinese brush painting, or prepared to change at teacher discretion Frequency of Course Offering: This course is offeredevery school year. You	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will range of projects. Projects may include, but are ohite drawing, color pencil drawing, watercolo pastel drawing.
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0 Grade(s): ○09 ○10 ○11 ○12 Is College Credit Available for this Course? ☐Yes ○No Prerequisite(s): None Course Description: This is a year-long course covering a range of tradition explore a variety of drawing and painting techniques while completing a wide not limited to, perspective drawing, oil painting, line design, charcoal/grap painting, illustration, acrylic painting, ink drawing, Chinese brush painting, or prepared to change at teacher discretion Frequency of Course Offering: This course is offeredevery school year. You Textbook(s) Used: None	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will e range of projects. Projects may include, but are chite drawing, color pencil drawing, watercolo pastel drawing. may only take one Art class per year.
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will be range of projects. Projects may include, but are cohite drawing, color pencil drawing, watercolo pastel drawing. may only take one Art class per year. Course #: 7561
Textbook(s) Used: Course Name: Drawing and Painting # Credits: 1.0	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will e range of projects. Projects may include, but are white drawing, color pencil drawing, watercolo pastel drawing. may only take one Art class per year. Course #: 7561 Course Length: 36 Weeks (1 Year)
Course Name: Drawing and Painting # Credits: 1.0	Course #: 7562 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A al artistic materials and processes. Students will e range of projects. Projects may include, but are white drawing, color pencil drawing, watercolor pastel drawing. may only take one Art class per year. Course #: 7561 Course Length: 36 Weeks (1 Year) If "Yes", Which College/University? N/A subtractive (carving away), and additive (adding

shadowbox/paper sculpture. **Projects subject to change at teacher discretion.

Frequency of Course Offering: This course is offeredevery school year. You may only take one Art class per year.

Course Name: Portfolio Art	•			<u>Course #:</u> 7550
# Credits: 1.0	<u>Grade(s):</u>	□10 □1	1 🖂12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for t	his Course? Yes	⊠No		If "Yes", Which College/University? N/A
Prerequisite(s): Graphic Desig	n/Photography, Draw	ing and Pair	ting, 3D	
offerings. It is an independent	t study program plan	ned betweer	n the instructo	ents who have completed the three elective art or and student exploring indepth concepts and If for admission to an art school.
Frequency of Course Offering:	This course is offered	devery school	ol year. <mark>You n</mark>	nay only take one Art class per year.
Textbook(s) Used: None				
Course Name: Woods I				<u>Course #:</u> 8505
# Credits: 1.0	<u>Grade(s):</u> ⊠ 09	⊠10 ⊠1	1 🖂12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for t	his Course? Yes	⊠No		If "Yes", Which College/University? N/A
	his Course? Yes	⊠No		If "Yes", Which College/University? N/A

Frequency of Course Offering: This course is offeredevery school year.

Textbook(s) Used: None

Course Name: Woods II

Course #: 8506

Grade(s): □09 ⊠10 ⊠11 ⊠12 # Credits: 1.0 Course Length: 36 Weeks (1 Year)

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.

 \boxtimes No

If "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 offeredevery school year.

Course Name: Woods III Course #: 8507 # Credits: 1.0 Grade(s): \square 09 \square 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) ⊠No If "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 offeredevery school year.

Textbook(s) Used: None

Course Name: Woods IV Course #: 8508 # Credits: 1.0 Grade(s): 09 10 11 12 Course Length: 36 Weeks (1 Year) If "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 offeredevery school year.

Textbook(s) Used: None

Course Name: Mechanical Drawing I

Course #: 8500 # Credits: 1.0 Course Length: 36 Weeks (1 Year) Grade(s): **09** \boxtimes 10 \boxtimes 11 If "Yes", Which College/University? N/A Is College Credit Available for this Course?

Yes ⊠No

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 offeredevery school year.

Course Name: Mechanical Drawing II

Course #: 8501

Credits: 1.0 Grade(s): 09 \(\Delta\)10 \(\Delta\)11 \(\Delta\)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): 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 offeredevery school year.

Textbook(s) Used: None

Course Name: Mechanical Drawing III

Course #: 8502

Credits: 1.0 Grade(s): 09 10 11 12 Course Length: 36 Weeks (1 Year)

<u>Is College Credit Available for this Course?</u> □**Yes** □**No** □ <u>If "Yes", Which College/University?</u> **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 offeredevery school year.

Course Name: Mechanical D	rawing IV				<u>Course #:</u> 8503
# Credits: 1.0	<u>Grade(s):</u>	□ 10	□11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for this	s Course?	⊠N∈	0		If "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 offeredevery school year.

Textbook(s) Used: None

Course Name: Houseno	ia Maintenance	<u>Course #:</u> 8512
# Credits: 0.5	<u>Grade(s):</u>	Course Length: 18 Weeks (1 Sem.)
Is College Credit Available	for this Course? ☐Yes ⊠No	If "Yes", Which College/University? N/A

Prerequisite(s):

<u>Course Description</u>: This course is designed to help students navigate the world of everyday home repair essentials. Students will learn preventive maintenance from automobiles to home maintenance. Students will learn basic skills for home maintenance and repair from drywall repair to simple electrical wiring to new construction and design. This course is designed to encourage students to be proactive decision makers that are willing to work to find solutions to real life problems. This course will have a lab/project portion each quarter, some necessary supplies may be the responsibility of the student. (SCED 17010)

Frequency of Course Offering: This course not offered 24-25

Textbook(s) Used: None

Course Name: Music In Our Lives

Credits: 1.0 Grade(s): ⊠09 ⊠10 ⊠11 ⊠12 Course Length: 36 Weeks (1 Year)

Course #: **7540**

<u>Is College Credit Available for this Course?</u> □**Yes** □**No** <u>If "Yes", Which College/University?</u> **N/A**

Prerequisite(s): None

<u>Course Description</u>: 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 not offered 24-25

Course Name: Guitar I Course #: **7545** # Credits: 1.0 or 0.5 Grade(s): \boxtimes 09 \boxtimes 10 \boxtimes 11 \boxtimes 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): 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 offered in 24-25 Textbook(s) Used: None Course Name: Small Ensemble Course #: **7530** # Credits: 1.0 Grade(s): \boxtimes 09 \boxtimes 10 \boxtimes 11 \boxtimes 12 Course Length: 36 Weeks (1 Year) If "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 with be student-centered and focus on individual practice and performace. 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 not offered 24-25 Textbook(s) Used: None Course Name: Band Course #: **7533** # Credits: 0.5 Grade(s): \boxtimes 09 \boxtimes 10 \boxtimes 11 \boxtimes 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): 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 $\underline{\mathsf{Grade}(\mathsf{s})}$: $\boxtimes \mathsf{09}$ $\boxtimes \mathsf{10}$ $\boxtimes \mathsf{11}$ $\boxtimes \mathsf{12}$ Course Length: 36 Weeks (1 Year) Is College Credit Available for this Course?

Yes If "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.

DEPARTMENT: Health Physical Education

Frequency of Course Offering: This course is offeredevery school year.

Course Name: Physical Edu	cation					<u>Course #:</u> 9000
# Credits: 0.5	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 18 Weeks (1 Sem.)
Is College Credit Available for thi	s Course?	∐Yes	\boxtimes No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
	otball, Śpeed	dball, E	Basketb			arning and lifetime activities in the following areas: ight Training, Volleyball, Badminton, Ping Pong,
Frequency of Course Offering: T	his course is	offered	devery s	chool y	ear.	
Textbook(s) Used: None						
Course Name: Physical Educ	cation					Course #: 9001
# Credits: 1.0	Grade(s):	⊠09	⊠10	⊠11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available for thi	s Course?	∐Yes	\boxtimes No	o		If "Yes", Which College/University? N/A
Prerequisite(s): None						
	otball, Špeed	dball, E	Basketb			arning and lifetime activities in the following areas: ight Training, Volleyball, Badminton, Ping Pong,
Frequency of Course Offering: T	his course is	offered	devery s	chool y	ear.	
Textbook(s) Used: None						
Course Name: Health 9						<u>Course #:</u> 9900
# Credits: 0.5	Grade(s):	⊠09	□10	□11	□12	Course Length: 18 Weeks (1 Sem.)
Is College Credit Available for thi	s Course?	∐Yes	\boxtimes No	0		If "Yes", Which College/University? N/A
Prerequisite(s): None						
	otball, Śpeed	dball, E	Basketb			arning and lifetime activities in the following areas: ight Training, Volleyball, Badminton, Ping Pong,
	urse will focu	ıs on v	⁄arious i	importa	nt topics	ke intelligent decisions regarding personal, family, s such as communicable and non-communicable st aid.

DEPARTMENT: Other

Course Name: Service	Learning			<u>Course #:</u> 0500
# Credits: 1.0	<u>Grade(s):</u>	□10 □11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available	e for this Course? Yes	⊠No		If "Yes", Which College/University? N/A
Prerequisite(s): Approval	from Guidance Counselor			
must demonstrate the coprogram. Most students way be assigned posistio	mmitment, reliability and res will be assigned to the elem ns at the high school. Com	sponsibility ne entary school munity Servic	cessary to assist e may be	he student the value of helping others. Students to be a good volunteer or participant in a service teachers at various grade levels. Some students e considered under the Service Learning Program ganization. Course is a Pass/Fail offering.
Frequency of Course Offe	ering: This course is offered	every school y	ear.	
Textbook(s) Used:	-			
Course Name: Co-op				<u>Course #:</u> 0700
# Credits: 3.0	<u>Grade(s):</u>	□10 □11	⊠12	Course Length: 36 Weeks (1 Year)
Is College Credit Available	e for this Course? Yes	⊠No		If "Yes", Which College/University? N/A
Prerequisite(s): Approval	from Guidance Counselor			
report to their place of en	•	er of the day.	Student r	ble students attend school for part of the day and must be employed before the start of your Senior tion insurance.
Frequency of Course Offe	ering: This course is offered	every school y	ear.	
Textbook(s) Used:	-			

DEPARTMENT: Career and Technical Center

Course Name: Automotive Mechanics Course #: 0812

Credits: 3.0 Grade(s): 09 \(\Delta\)11 \(\Delta\)12 Program Length: 3 Years

Certification: PA State Inspection License

<u>Prerequisite(s)</u>: 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

Grade(s): \square 09 \boxtimes 10 \boxtimes 11 \boxtimes 12

-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

Program Length: 3 Years

Course #: **0813**

Course #: 0820

Certification:
Prerequisite(s):

Credits: 3.0

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

Credits: 3.0 Grade(s): 09 🖂 10 🖂 11 🖂 12 Program Length: 3 Years

Certification: Child Development Associate Credential

Prerequisite(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 situtation
- -Students will learn how to meet the developmental needs and interests of young children

Course Name: Culinary Arts					<u>Course #:</u> 0814
# Credits: 3.0	Grade(s): 09	⊠10	⊠11	⊠12	Program Length: 3 Years
<u>Certification:</u> ServSafe Sanitation			_	_	 _
Prerequisite(s):					
Course Objectives:					
-Work side-by-side with profession	nal chefs				
-Make gourmet foods with artistic					
-Participate in catering projects ar	•	of a full	-service	restaurant	
-Prepare for a career as a Cook, F	•				
-Students must be willing to taste	•	•			eye, and should have good
measurement skills	,		J	577	,,
Course Name: Health Assista	nt				<u>Course #:</u> 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 car	re professionals				
-Learn medical terminology and a	natomy				
-Practice hands-on care	•				
-Gain clinical experience at long-to	erm care facilities				
-Prepare for a career as a Nurse A		al Assis	tant		
-Students must have a good healt	th record and be a	ble to a	ccept ar	nd carry out precise orders	
Course Name: Heavy Equipm	ent Maintenar	ıce			<u>Course #:</u> 0817
# Credits: 3.0	Grade(s): □09		⊠11	⊠12	Program Length: 3 Years
Certification: PA State Inspection		□		Z 3 : =	riogiam Longan.
Prerequisite(s):	T Elochico				
Course Objectives:					
-Service, diagnose, repair, and rel	build trucks, tracto	rs. logai	ng and	construction equipment	
-Work on both gasoline and diese					
-Use arc welding, oxy/acetylene c			nniques		
-Prepare for a career as an Equip	•			Equipment Manager or Part	s Clerk
-Students should have good mecl				• •	
weather and in a sometimes dirty		orving a.	ia moat	saromon on and so willing	g to tront outcare in molecule.
Course Name: Homeland Sec	curity				<u>Course #:</u> 0821
# Credits: 3.0	<u>Grade(s):</u>	⊠10	⊠11	⊠12	Program Length: 3 Years
Certification:	<u> </u>				r rogram Longui.
Prerequisite(s):					
Course Objectives:					
· · · · · · · · · · · · · · · · · · ·					
 Acquire skills from public safety a 	areas of firefighting	law er	forcem	ent and emergency services	

-Refine personal career opportunities and choose personal career opportunities in an area of specialization of public safety

-Prepare for national, state and local certifications in all three areas 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

<u>Prerequisite(s)</u>: 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

<u>Grade(s):</u> □09 ⊠10 ⊠11 ⊠12

Program Length: 3 Years

Certification: Cisco Certified, A+, CompTIA

<u>Prerequisite(s)</u>: Course Objectives:

- -Design, build, configure, and troubleshoot networks
- -Program routers and switches
- -Explore wireless and security methods
- -Learn with interactive and hands-on activities thorugh 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 abilites and excellent problem solving skills

Course Name: Welding Technology

ology

Grade(s): □09 □10 □11 □12 Program Length: 3 Years

<u>Certification:</u> <u>Prerequisite(s)</u>:

Credits: 3.0

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