



FOREWORD

This catalog is presented by the entire staff of Jersey Shore Area Senior High School (JSASHS) as a source of information regarding the courses offered to students. A description for each subject has been written so that the students will be aware of the material to be covered in each class. The courses listed in this guide are tentative offerings during any school year. A course will be offered only if enough students request it.

We are interested in providing the finest education possible through offering a diversified curriculum. Students and parents must accept the responsibility of making careful and wise decisions. The teachers, counselors, and administrative staff of JSASHS are ready to assist all students in selecting a schedule that will fit individual needs and interests. Before attempting to make course selections, the students and parents should carefully read the material found in this guide. Special attention should be given to the **requirements for graduation** which are as follows:

- 1. The subjects in which the required credits are earned will depend upon the course of study chosen.
- 2. Accumulation of twenty-seven (27.0) credits in grades nine (9) through twelve (12).
- 3. Completing all state requirements in accordance with ACT 158.
- 4. Each student must participate in and pass certain required subjects.

Requirements for each grade level are as follows:

- 0 5.75 credits Freshman Status
- 6 12.75 credits Sophomore Status
- 13 18.75 credits Junior Status
- 19 + credits Senior Status

	Credit Requirements	
Content Areas	Career Ready Four (4) Year College	Career Ready Two (2) Year College or Workforce
English	4.0	4.0
Mathematics	4.0	4.0
Science	4.0	3.0 or 4.0
Social Studies	4.0	3.0 or 4.0
Physical Education	2.0	2.0
Business Education *Computer Applications (0.5) *Personal Finance (0.5)	1.0	1.0
Pathway Elective Education *Art – Music – Family Consumer Science (0.5) *Technology Ed - CTE (0.5)	1.0	1.0
Health Education	0.5	0.5
Career and Technical Education Courses – Pathway Elective Courses – General Elective Courses	6.5	7.5 or 8.5
Total Credits	27.0	27.0

SELECTION/SCHEDULING OF COURSES

Students are to have a complete schedule prior to the start of school. Students are encouraged to register for a full eight period day. Once the school year begins, students may add classes if there is a free period during the day. Requests to change a schedule after the start of the year and will be limited to those students seeking to advance their schedule. Consideration will also be given to schedule changes to better support the completion of a specified Pathway to fulfill college-career readiness requirements. Students and parents are encouraged to review the Pathway Guide that outlines the tracks of study at the high school. Each pathway includes specific, required classes and identified electives. To aide in the scheduling process students should identify and follow a pathway to graduation.

WITHDRAW/FAIL

Any student/parent who elects to be removed from a class for any reason beyond seeking to advance a schedule will receive a grade of a withdraw fail (WF) on the high school transcript which will reflect a percentage grade of a 65.

INTERVENTIONS

Jersey Shore High School offers a variety of tiered interventions to support students. Academic support to students is offered by teachers during the SHORE period. School personnel also evaluate needs of students throughout the academic year and work to develop plans to fit the needs of the student(s). Targeted remediation and tutoring programs are conducted when the schedule allows. We encourage students and/or families to reach out to teachers and the guidance office regarding tiered supports for students.

DUAL ENROLLMENT

A number of our classes are dual enrollment classes in conjunction with Pennsylvania College of Technology (PCT) and Lackawanna Community College (LCC). These courses create an official college transcript for the class(es) in addition to being identified on your high school transcript. Due to an agreement between PCT and the JSASD there is no cost to take PCT courses. There is a \$100 per credit tuition costs for all Lackawanna Community College courses. Additional student costs may include the expense for textbooks which will vary from \$0 - \$200 depending on the course for both PCT and LCC. Course marked with $\bullet \bullet$ identify the course as a dual enrollment. Students also have the option to take classes through Mansfield University, Indiana University of Pennsylvania, and the University of Northern Ohio.

Courses NOT NCAA Approved

- Financial Algebra for Business Applications
- Career Algebra 2, and 3
- SAT Mathematics

Art

7000 Introduction to Art

Grade 9 .50 credit

Introduction to art is designed to give students a broad experience in two dimensional and three dimensional art. Students will learn and use the elements and principles of art in a variety of media (paint, pastel, colored pencil, plaster, etc.). Assignments are designed to challenge, exercise creative muscle, and broaden artistic experience. This class will give students an excellent foundation for continuing their education in the art industry or communication technology pathway. All projects must be completed in order to receive credit for this course.

7101 Learning to Draw

Grade 9-12 .50 credit

This is an introductory course on drawing. Students will start from very basic techniques and applications advancing slowly and methodically to more advanced methods. They will work from nature, still life and people in a variety of media; exploring qualities of line, texture, light and space. All grade levels are allowed to sign up for this class. All projects must be completed in order to receive credit for this course.

7135 Sculpture

Grade 9-12 .50 credit

Students will create a wide range of sculptures using various materials, tools and techniques. Clay sculpting will be a large part of the class and will supplement any pottery classes that students may take. Materials could range from clay, paper, wire, and plaster. All projects must be completed in order to receive credit for this course.

7160 Commercial Art

Grade 9-12 .50 credit

In this course students use fine art and design skills to create and communicate in various areas of commercial design. This may include product design, storyboards and illustrations, fashion design, and interior design. Students will explore the creative planning involved in creating commercial concepts using drawing skills. This course will give students an excellent foundation of skills to continue their education in the arts and communications technology pathway. All projects must be completed in order to receive credit for this class.

7100 Learning to Paint

Grade 10-12 .50 credit

This is an introductory painting course. Students will use water-based paints including acrylic, watercolor and tempera. Using a variety of brushes and techniques, students will create paintings that range from realistic to abstract. You must be in grades 10, 11 or 12. All projects must be completed in order to receive credit for this course.

7001 Advanced Art

Grade 10-12

.50 credit

(Prerequisite: Previous art class required.)

This course is designed for those students who wish to develop their artistic skills further. Students will focus on the use of the Elements and Principles of Arts to develop an understanding of the creative process involved in producing art. Projects will give the student a chance to work with a variety of media and subject matter. All projects must be completed in order to receive credit for this class.

7005 Mixed Media Grade 10-12 .50 credit

This hands on design course will encourage a sense of exploration and broaden thinking patterns by combining and manipulating traditional and non-traditional art materials and techniques. Projects will refine skills and stimulate the innovative use of materials. This is a course for students who enjoy the challenge of experimenting with new techniques, materials and creative compositional strategies. Students will make informed design choices and improve creative thinking skills while producing original and imaginative artwork.

7016 Stage and Set Design

Grade 10-12 .50 credit

This course presents the student with a variety of opportunities to learn the basics of set and prop design for productions such as plays, video, concerts, award ceremonies, etc. Work will be done on full stage productions as well as for smaller settings. The student will also have the opportunity to specialize in areas of interest.

7022 Fiber Crafts

Grade 10-12 .50 credit

This course explores the craft of using fibers such as paper, fabrics, year/string, and other fibers to create pieces of art. Some of the areas students will be working in are weaving, silk painting, book design/paper binding, basketry, and batik. All projects must be completed in order to receive credit for this course.

7023 Glass Crafts

Grade 10-12 .50 credit

This course explores the areas of Crafts specializing in fabricating items out of glass. Students will learn basic glass design, cutting, soldering, and warm glass techniques as they create both 2D and 3D glass projects. Other areas the students will be working in include fused glass, slumped glass, and the use of recycling in art. All projects must be completed in order to receive credit for this course.

7031 Pottery 1

Grade 10-12 .50 credit

This course introduces the beginning student to the basics of pottery, wheel throwing and hand building, as well as a general understanding of glazing and firing of electric kilns. All projects must be completed during the semester for credit.

7032 Pottery 2

Grade 10-12 .50 credit

(Prerequisite: Pottery 1)

This course introduces the student to advanced techniques in wheel throwing and hand building. Students at this stage are encouraged to adapt projects and individualization is encouraged. All projects must be completed during the semester for credit.

7033 Pottery 3

Grade 11-12 .50 credit

(Prerequisite: Pottery 2)

This course is for the student who has a good working knowledge of wheel throwing and is interested in advanced techniques and projects on the potters' wheel. There will also be opportunities for the interested student to work in advanced sculpture and hand building problems. All projects must be completed during the semester for credit.

Business, Finance and Information Technologies

Business, Finance and Information Technologies is a path to a successful career. The demand for persons with business skills is constantly growing, especially in the accounting/finance, marketing, administrative assistant, and technology-related fields. Business and Computer Technologies allow students to do the following: (1) develop life skills needed by all consumers; (2) prepare for both college, employment, and personal finances; (3) acquire lifelong skills and habits to apply to a career; (4) broaden life-long work and study options; (5) pretest career interests before going to college; and (6) provide an opportunity to apply academic content. The courses offered by the Business and Computer Technologies Department are designed to provide the skills and competencies that will be used in a variety of careers as well as student's personal lives. *Any student may elect business courses.*

2178 Financial Algebra for Business Applications

Grade 11-12 1.0 credit

Topics to include: buying a car, buying a home vs. renting, budgeting, banking services (saving & checking accounts), establishing credit, employment payroll, income taxes, insurance, & investing via the stock market. Use of some linear equations, and interpretation of collected data using graphs, charts and Excel Spreadsheets as well. The primary focus is business math principles used in the "real world".

4202 Personal Finance (Required for Graduation)

Grade 11-12 .50 credit

Personal Finance introduces students to the business concepts and skills required in today's marketplace. Students need to have a basic understanding of business principles, computer applications, and personal finance to become productive members of the workforce. The intent of the course is to inform students of their various financial responsibilities and to provide them with opportunities for self-awareness, expression, and satisfaction in a highly technical and competitive society.

4212 Principles of Management (MGT105) Dual Enrollment option available

Grade 11-12 1.0 credit

Introduction to the topic of management, defined as the process of setting and achieving organizational goals, effectively and efficiently, through the use of human and other resources. The four functions of management - planning, organizing, leading, and controlling - provide a framework for the course and are examined in considerable detail. Emphasis on contemporary management issues such as diversity and recognition of the changing face of the American workforce; ethics and social responsibility and their increasingly important role for business; and the growing significance of international business.

NOTE: This course is a Lackawanna College Dual Enrollment Course. Registered students will receive Three (3) College Credits through Lackawanna College upon successfully completing the requirements of the course. There is a cost associated with Lackawanna College Course of \$100 per credit. This cost is non-refundable. Registration and tuition payment will be discussed by the

4210 Introduction to Business

Grade 10-12 1.0 credit

This course is highly recommended to all students! The course is designed as an introduction to some of the business courses offered at the high school. Students can use this course to help them find a possible career or interest area. This is a good course for those who will enter any field of business, and for everyone else who will ever have to make decisions involving money. Considerable time will also be spent in the microcomputer lab using software to supplement the regular classroom instruction. "Intro" can make the difference in your future.

4342 Accounting 1 Grade 10-12 1.0 credit

This course is designed to equip the student with the professional skills that will enable him or her to work in the fields of accounting or bookkeeping. Many job opportunities exist in these fields. The student receives training in each step of the accounting cycle from journalizing through the end-of-month work, to the preparing of financial statements used by management. Accounting is the backbone of any business structure and is highly recommended for any student considering a career in the business field. Basic computerized accounting applications will now be integrated into Accounting 1.

4343 Accounting 2 *Grade* 11-12 1.0 credit

Prerequisite: Accounting 1

This is an advanced course primarily designed to help the student prepare for a career in the rewarding field of accounting. It includes interesting and important concepts such as depreciation, accruals, deferrals, inventory and cash control, corporate and managerial accounting, etc. Computerized accounting problems will be used as well as spreadsheet problems.

4345 Financial Accounting Dual Enrollment option available

Grade 12 1.0 credit

(Prerequisite Accounting 1 & 2)

Basic principles and applications of financial accounting used in business practices will be explored to develop student understanding. Preparation and interpretation of financial information are emphasized. Course work provides the accounting knowledge necessary for success in more advanced accounting courses and in the business field.

NOTE: This course is a Lackawanna College Dual Enrollment Course. Registered students will receive Three (3) College Credits through Lackawanna College upon successfully completing the requirements of the course. There is a cost associated with Lackawanna College Course of \$100 per credit. This cost is non-refundable. Registration and tuition payment will be discussed by the instructor.

4381 Business Leadership Year

Grade 11-12 1.0 credit

This course is a self-paced, contract-based curriculum that will span the entire school year or the first term dependent upon the number of credits selected by the student. Students, working both independently and as a team, will participate in project management skills pertaining to various business and leadership topics including aspects of Career and Technical Student Organizations. Students will prepare speeches, mock interviews, and professional networking portfolios.

4422 Marketing *Grade* 10-12 1.0 credit

Marketing is the business concept of satisfying customer's wants and needs. This course explores using the 4 P's of Marketing; Price, Product, Place and Promotion in real world business situations. Students will use hands on projects rather than tests to discover the exciting field of Marketing. The classroom environment is stimulated by using case studies, projects, guest speakers and online virtual business projects to learn and grow. Students taking the course should have an interest in attending college for marketing and/or starting their own business in the future.

4421 Entrepreneurship

Grade 11-12 .50 credit

An entrepreneur is a person who attempts to earn a profit by taking the risk of owning and operating his or her own business. Thousands of people become entrepreneurs each year. They may start their own businesses from scratch, buy existing businesses, or buy franchised businesses. The REAL (Rural Entrepreneurship through Action Learning) Entrepreneurship course will teach students the skills necessary to become a successful entrepreneur through a hands-on approach. In this course, students learn about self-employment through reading, research, and classroom activities.

4420 Sports and Entertainment Marketing

Grade 11-12 .50 credit

Explore the intriguing world of sports and entertainment from the perspective of marketing. This course will take you on a step-by-step journey through the exciting world of sports entertainment marketing. You will learn about the key functions of marketing and how those functions are applied to the sports and entertainment industry. Guest Speakers, case studies, projects, field trips, on-line activities of owning your own professional sports team will broaden the classroom learning experience.

4450 Computer Applications/REQUIRED COURSE

Grade 9 .50 credit

Computer Applications is a course that teaches students how to create, edit, and format word processing, spreadsheet, and presentation files using Microsoft Office. There is a strong focus on careers and the students will take the ASVAB diagnostic test (when available) or other career assessments to better understand career options. Introduction to the Internet and its research capabilities will be presented. Students must also complete a resume, a letter of application, other job-related materials, and digital citizenship topics.

4700 Business Law 1

Grade 10-12 .50 credit

Business Law 1 is a one-semester course that involves principles of law as they apply to business and the consumer. This is an essential course for any student who is planning a career in business. It is highly recommended for business students and others who wish to elect an interesting and enjoyable course. Basic principles of law will be discussed with emphasis being placed on the following: the individual and his/her relationship with the law; our legal system; contract law; marriage, divorce and its legal consequences; and bailments. Current legal cases that relate to the course will also be discussed. Law is an instrument of social control which affects everyone. Business is the medium through which most of the necessities of life are provided to everyone. These two comprehensive and profoundly important fields of interest are ambitiously combined in the text and course on business law. Most colleges require students majoring in business to take at least two semesters of business law.

4701 Business Law 2

Grade 10-12 .50 credit

Business Law 2 is a one-semester course that will cover the following topics: job and agency contracts; buying on credit; insurance (including automobile insurance); buying and renting of real property; consumer law; commercial paper (checks and promissory notes); and detailed study of various forms of business ownership. **Business Law 1** is not required to enroll in **Business Law 2**.

Computer information and Society (CIS) *Grade 11-12 Dual Enrollment option available*

4484

1.00 credit

Introduction to the basic concepts and applications of computer and Internet-related information technology and its impacts on individual users, businesses, groups, organizations, and society. Topics include access, evaluation, and use of digital information, ethical and security implications of information use and storage; human-computer interactions; social aspects of information systems; economic and legal issues; and professional presentation and communication of information. Information literacy skills that promote lifelong learning are developed through exposure to various existing and emerging technologies, including information resources, communication methods and technology.

NOTE: This course is a Lackawanna College Dual Enrollment Course. Registered students will receive Three (3) College Credits through Lackawanna College upon successfully completing the requirements of the course. There is a cost associated with Lackawanna College Course of \$100 per credit and the cost of the textbook (approximately \$100). Total approximate cost to the student / parents-guardians for the CIS Dual Enrollment Course is \$400. This cost is non-refundable. Registration and tuition payment will be discussed by the instructor

Career and Technical Education Programs

In today's challenging job environment, it is more critical than ever before that our young people complete their high school education with strong academic and technical skills that prepare them for college-level studies and successful careers. We believe this foundation will allow students to succeed personally and also make a valuable contribution to an innovative and competitive Pennsylvania economy. Building this foundation is what Career and Technical Education (CTE) is all about. CTE programs at Jersey Shore Area Senior High School (JSASH) are designed to meet a dual mission -- developing students with College Readiness skills AND a Career Path. CTE is no longer an either/or choice, but a "BOTH/AND" opportunity for student success

9026 Introduction to Human Services

Grade 9 .50 credit

This class is good for anyone who wants to help others or explore careers in the human service field. If you are interested in teaching or the Child Care CTE program you should take this course. Students will study childhood development and age-related milestones. Students will participate in some community service projects to help others. The students will explore their own skills and interests and develop their own individual career plan. This course also focuses on soft skills and helps students develop the organizational and communications skills they need in this type of work.

8114 Health Occupations

Grade 9 .50 credit

*May not be offered depending on instructor availability.

The Health Occupations course will enable students to engage in a more thorough understanding of the various occupations available in the Health field. Students will be provided information on: job descriptions, job responsibilities, including the negative and positive aspects of the jobs, training and educational requirements, salary/benefits, working environments, advancement opportunities, job security and retirement incentives through instruction, research and personal experiences with guest speakers. The course is an excellent way for students to become better prepared for making career decisions in Health related fields.

6550 Family and Consumer Science

Grade 9-10 .50 credit

*May not be offered depending on instructor availability.

This elective course is meant to help students develop a basic understanding of financial and resource management for independent living. They will improve their skills in a manner that will help to maintain a healthy lifestyle that balances work, family, and community responsibility. Such topics as food science & nutrition, child development, family functions, communication skills, and consumer rights and responsibilities will be incorporated into the course.

6021 Multimedia Design

Grade 9-10 .50 credit

This course gives students the opportunity to explore different methods of communication through digital media formats. Students will use computers to create and edit their own original works of art. This course provides a hands-on, project based environment covering topics such as digital photography, advertising, graphic design, animation, and video production. Students will study various aspects of the design process such as layout design, planning procedures, thumbnail sketches, typography, and color theory. Students will be introduced to basic camera composition concepts and learn how to edit photographs and videos. Each project is designed to develop problem solving skills, encourage project-oriented research, and self-reflection.

Pathway Rotation Grade 9 1.0 credit

This course is the gateway class for the Career and Technical Education (CTE) Engineering and Industrial Trades-Technologies Pathway: Industrial Technologies is a four (4) part rotation course consisting of Automotive Technology, Construction Trades, Electronics, and Manufacturing programs. Students will learn basic skills in electrical, programming, engines, prints, schematics, measurements, basic tools, units, welding, and machinery. This course provides the fundamental foundation skills necessary for the various CTE programs.

Pathway Options

0047 Automotive Technology Exploration

Grade 9 .25 credit

This course is the gateway class for the Career and Technical Education (CTE) or Automotive Technology Pathway: Students will learn and explore internal combustion engines, braking system, tire repair as well as basic hand tool usage. Students will focus on the fundamental skills necessary to explore Automotive Technology.

0048 Building Maintenance Exploration

Grade 9

.25 credit

*May not be offered depending on instructor availability.

Students will be introduced to various stalks and tasks which are necessary to work in the field of Building Maintenance and property care. The students will experience the use of available hand tools, machinery and operations. This course will serve as a foundation course for students who are interested in the Building Maintenance pathway.

0050 Computer Systems & Networking Exploration

Grade 9

.25 Credits

This course is the gateway class for the Career and Technical Education (CTE) or Computer Systems Networking and Telecommunications Pathway: Students will learn and explore Personal Computer Hardware, Operation Systems & Applications, Networking Technologies for Home and Business Settings, and Basic Programming Fundamentals. Students will focus on the fundamental skills necessary to explore careers in Computer Support, Programming, and Networking.

0051 Construction Exploration

Grade 9

.25 credit

May not be offered depending on instructor availability.

This course is the gateway class for the Career and Technical Education (CTE) Construction Technology: Students enrolled in this course will learn layout and measuring, safe hand and power tool use, and assembling projects in the Construction lab. Projects will include but not limited to tables, benches, toolboxes and more. Students may take home completed projects..

0052 Machining & Manufacturing Exploration

Grade 9

.25 credit

This course is the gateway class for the Career and Technical Education (CTE) or Manufacturing Engineering Pathway: Students will learn and explore CADD (Computer Aided Drawing & Design), 3D Printing, Welding, Sheet Metal Fabrication and CNC (Computer Numeric Control) applications. Students will focus on the fundamental skills necessary to explore Manufacturing Engineering.

Automotive Technology

0047 Automotive Technology Exploration

Grade 9

.25 credit

(This course is part of the 9th grade pathway rotation)

This course is the gateway class for the Career and Technical Education (CTE) or Automotive Technology Pathway: Students will learn and explore internal combustion engines, braking system, tire repair as well as basic hand tool usage. Students will focus on the fundamental skills necessary to explore Automotive Technology.

This course could be taken with other exploratory .25 credit courses from the following programs: Networking, Manufacturing Engineering, Construction, Technology Education, Building & Maintenance and Communications.

9825 Introduction to Automotive Technology

Grade 10-12 .50 credit

(Preference given to 10th grade)

This course provides students with the opportunity for hands-on experience in automobile repair and maintenance. Students will acquire skills in vehicle electrical systems, precision measurement, and engine repair. This course is intended to teach skills that allow you to enter the vast area of automobile repair or prepare you to further your education in post-secondary schools. This will give students the opportunity to explore this field without making a 2 credit commitment.

9800 Automotive Technology 1

Grade 11-12 3.0 credits

(Prerequisite: Introduction to Automotive Technology is strongly recommended)

(Preference given to 11th grade)

Students enrolled in this program study all aspects of automotive brake systems (to include anti-lock brakes), steering systems, suspension systems, wheel alignment, and electrical/electronic systems. The application of technological and scientific principles, functional design, operation, and diagnostic tests will be covered throughout the course. The program is industry certified and uses up-to-date repair and diagnostic test equipment. This course will have an emphasis on theory as well as practical hands- on skills. This course, will allow students to gain the proficient knowledge to step into the higher level manufacturing courses. Students will also prepare for the (OSHA) Occupational Safety & Health Administration certification.

9810 Automotive Technology 2

Grade 12 3.0 credits

(Prerequisite: Automotive Technology 1)

This course is a continuation of Automotive Technology 1. Students will study engine operation, design, diagnostics, and repair. A major focus will be on advanced engine diagnostics and repair to include electronic ignition systems, fuel systems, computerized engine control, and emissions systems. Students will also have the opportunity to earn a Pennsylvania Certified Safety Inspector License. The program is industry certified and uses up-to-date repair and diagnostic test equipment.

9830 Vehicle Maintenance and Service

Grade 11-12 .50 credit

*May not be offered depending on instructor availability.

Students will learn the theory and application of vehicle maintenance, fleet maintenance operations and basic car care. This course focuses more on maintaining a vehicle as opposed to repairing them. This course includes necessary information and skills for Automotive 1 and 2, but is also a stand-alone course for those looking to gain knowledge about how to maintain and care for a vehicle. Topics covered are basic maintenance and servicing of all vehicle systems from chassis to powertrains to interior systems.**This course is offered when teacher schedule allows.**

Building Property Maintenance

0048 Building Maintenance Exploration

Grade 9 .25 credit

*May not be offered depending on instructor availability.

(This course is part of the 9th grade pathway rotation)

Students will be introduced to various skills and tasks which are necessary to work in the field of Building Maintenance and property care. The students will experience the use of available hand tools, machinery and operations. This course will serve as a foundation course for students who are interested in the Building Maintenance pathway.

This course could be taken with other exploratory .25 credit courses from the following programs: Networking, Manufacturing Engineering, Construction, Technology Education, Building & Maintenance and Communications.

9782 Intro to Building Maintenance

Grade 10 .50 credit

*May not be offered depending on instructor availability.

Introduction to Building Maintenance is an introductory course for student interested in the Building Maintenance and Construction Trades pathway. This course will provide an overview of the Construction Trades pathway by introducing the student to residential carpentry, electrical and plumbing systems, as well as landscaping and various maintenance related tasks.

9780 Building Maintenance 1

Grade 11-12 3.0 credits

(Preference given to 11th grade)

This program is designed to introduce students to the skills necessary for success in a career in building maintenance. Students will be instructed in, and exposed to, building maintenance and trades skills at the basic, intermediate and advanced levels, based on their needs and abilities. These skills will include: basic safety (which includes personal protective equipment, performance safety, and what to do if an accident occurs); communication and human relations skills; and hands-on experiences (which provide exposure and practice in each of the building maintenance areas). Students will work boots and may need to purchase a uniform.

9781 Building Maintenance 2

Grade 12 3.0 credits

(Prerequisite: Building Maintenance 1)

This program is designed to fine tune students to the skills necessary for success in a career in building maintenance. Students will be instructed in, and exposed to, building maintenance and trades skills at the basic, intermediate and advanced levels, based on their needs and abilities. The program continues to build upon skills learned in level 1.

9784 Computer Aided Drafting and Design

Grade 11-12 .50 credit

*May not be offered depending on instructor availability.

This program will allow students in the Engineering and Industrial Technology pathways to gain knowledge in the use of AutoCAD and related software. Students will receive instruction in the use of AutoCAD, AutoCAD architecture Revit, and Autodesk Inventor programs. Students will read, draw, and interpret shop drawings and building plans in 2D and 3D. Students will use drafting practices to reinforce mathematical concepts of area, perimeter, volume, and other geometric concepts.

Child Care

9025 ABC's of Child Care

Grade 10-12 .50 credit

(Preference given to 10th grade)

This introductory course provides the basic knowledge and skills related to child growth and development. It will help you form positive relationships with children and develop effective parenting and caregiver skills. Participation in this course may also help one determine a career goal of working with children.

9000 Child Care Services 1

Grade 11-12 3.0 credits

(Preference given to 11th grade)

Students enrolled in the Child Care Services program learn and practice the skills necessary to improve the quality of care and education provided for young children. In this course students begin the process of becoming a Child Development Associate (CDA). They develop skills in storytelling; implement art, music, movement, math and science activities for groups of children; create, plan and write weekly lesson plans; design bulletin boards, newsletters and other teaching tools; plan and prepare nutritional food for children. Students will also operate a laboratory school for 3-5 year olds, using positive guidance methods. Students will be prepared to pursue post-secondary education. Students will be required to purchase a shirt to be worn when

9010 Child Care Services 2

Grade 12 3.0 credits

(Prerequisite: Child Care Services 1)

Students will continue to build upon the foundation established in Child Care Services 1, continuing to accumulate time and experience towards the process of becoming a **Child Development Associate** (**CDA**). Students will be given more responsibility in the development and preparations of the laboratory school.

Communications & Digital Media

9140 Intro to Communications & Digital Media

Grade 10

.50 credit

Students will learn the art of taking photographs and video using the camera and computer as the primary tools for editing, processing and composing. After basic instruction in photography, artistic expression and experimentation with image form, portrait and small-product photography will be studied. In the video component of this class, students will develop skills related to commercial video production, art and experimental video, interactive multimedia production, web-based production and other newly emerging forms. Students who decide to enter post-secondary education will be better prepared for future studies in advertising, marketing, broadcast communications, computer information systems, mass communications, journalism, performing arts, office information systems and video production. This class fulfills the required 0.5 Technology Ed credits for graduation.

9145 Communications & Digital Media 1

Grade 11-12

3.0 Credits

(Preference given to 11th grade)

Communications Technology 1 is a CTE course focusing on graphic design (with an emphasis on digital communication), printing, photography, and video production. This course is an extension of the Communications Technology Exploratory and Digital Photo/Video. The course will expand further into color theory, advanced typography, project portfolio creation, and client-based project development.

Students will study various aspects of design and creation such as layout, resolution/printing, and color theory. Students will use the Adobe Creative Cloud suite to create various digital design projects following a specific content workflow. Concepts that will be explored include planning procedures, creating thumbnail sketches, creating digital "rough" layouts, final design creation, storyboarding, script writing, video production, motion graphics, off camera lighting, audio recording/mixing, and digital publication. Students will be expected to use math skills to calculate image size, resolution, document layout/positioning, frame rate, and more. Seniors taking this course will take an industry-based NOCTI examination at the conclusion of the year. Additionally, all seniors will have the opportunity to become Adobe Certified Associate certified.

9146 Communications & Digital Media 2 (Prerequisite: Communications & Digital Media 1)

Grade 12

3.0 Credits

Communications Technology II is an advanced level CTE course focusing on digital media, marketing, video production, and photography. This course is an extension of the Communications Technology I. Students will complete large scale, community-based projects, maintain social media channels (monitoring analytics), and work with adults both in and out of school. This course is setup to mimic an environment much like they will encounter in a real-world scenario. There is a heavy emphasis on the development of soft skills in addition to the technical skills introduced in the Level I course.

9147 Graphic Design for the Web

Grade 11-12

.50 Credits

Graphic Design for the web is an elective-based course in which students are introduced to the various conceptual and technical aspects of designing content for the web. This course examines the fundamental basics of HTML and CSS in accordance to current internet standards. Students will explore the website design process including layout/conceptualization, to publication, while utilizing various HTML tags, CSS structuring, etc. Additionally, students will learn the basics of developing the front-end design for apps/websites, etc. using prototyping software that allows fully functional mobile apps and websites to be built and tested for usability. **This course is offered when teacher schedule allows**

♦•4438 Web Page Development BWM150

Grade 11-12 .50 Credits 3 College Credits

Introductory coverage of the Internet and online Web technologies. Skills learned include how to plan, create, and maintain static web pages. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam and purchase the book for this course. With successful completion, students will receive 3 credits for the BWM 150 course through Pennsylvania College of Technology. This course runs concurrently and is part of Level 2.

Computer Systems & Networking Technology

Electronics and Computer Engineering courses provides students with a foundation in circuits, analog and digital electronics, automation using PLCs and Robotics, control systems, electronic communications, embedded systems, telecommunications, networking, and optics. These courses address the need for women and men with practical skills who are ready to continue their study at the college level, enter the military, or enter the workplace.

0050 Computer Systems & Networking Exploration

Grade 9

.25 Credits

(This course is part of the 9th grade pathway rotation)

This course is the gateway class for the Career and Technical Education (CTE) or Computer Systems Networking and Telecommunications Pathway: Students will learn and explore Personal Computer Hardware, Operation Systems & Applications, Networking Technologies for Home and Business Settings, and Basic Programming Fundamentals. Students will focus on the fundamental skills necessary to explore careers in Computer Support, Programming, and Networking.

♦♦9301 Engineering, Technology & Society (EET124)

Grade 10-12 .50 credit

3College Credits

Introduction to the basic concepts and applications of computer and engineering technologies and the effects on professional and casual users, their employers and employees, and society. Applied skills include the use of current computer technology for data/information collection and organization; visualization, analysis, and interpretation of numeric computations; and the dissemination and presentation of solutions to engineering technology problems.

This course meets Pennsylvania College of Technologies Computing Literacy graduation requirement for all majors **during the spring semester**. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam and purchase the book for this course. With successful completion, students will receive 3 credits for the EET124 course through Pennsylvania College of Technology. This Course is weighted 1.1

9302 Introduction to Computer Systems & Networking

Grade 10

.50 credits

This course will introduce students to the career field of Information Technology. Students will learn the basics of Information Technology, computer hardware and software, Internet technologies, Networking, and Cyber Security. Related career paths to understand will include databases, programming, and the Information Systems fields. Students will also gain an understanding of IT Career Planning and Preparation. At the end of the course students may take the ITF+ Certification Exam for a career credential.

9310 Computer Systems & Networking 1

Grade 11-12

3.0 credits

Preference given to 11th grade

This course will introduce students to PC operating systems, hardware, and trouble shooting. Topics covered include computer construction, help desk and support operations. At the end of this course students may take the Comp TIA A+Exams.

♦♦9311 Computer Systems & Networking 2 (EET145)

Grade 12 3.0 credits
4 College Credits

Prerequisite: Networking 1, This course is weighted 1.1

This course will introduce networking topologies, connector termination techniques, various operating systems, as well as current and emerging technologies. Students will continue to build upon the foundation developed in Level 1. Students will learn Domain Administration in a Microsoft Windows environment, Network Administration, System Administration concepts, and will be given the opportunity to specialize or concentrate in their area of interest. At the end of the course students may take the Network+ Certification Exam.

Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam and purchase the book for this course. With successful completion, students will receive 3 credits for the EET124 course through Pennsylvania College of Technology.

6017 Principles of Computer Programming

Grade 11-12 .50 credit

*May not be offered depending on instructor availability.

Principles of Computer Programming provides and introduction to programming basics that can be used with any computer language. Concepts covered include: User Input, Output, Data Types and Variables, decision statements, looping, functions or methods, and arrays. Properties of algorithms, languages, and notations for describing algorithms, applications of a procedure-oriented language to problem solving are also covered. These concepts will be covered in a modern, high level, object oriented, open source (free) language such as Python. This course can be used as a building block into CTE courses in Electronics and Information Technology. This course meets the graduation requirement of .5 credits in Technology Education. **This course is offered when teacher schedule allows**

6015 Principles of Electronics

Grade 11-12 .50 credit

*May not be offered depending on instructor availability.

In Principles of Electronics students are introduced to various concepts and topics in electronics technology such as electricity fundamentals, basic circuit design, electrical component installation/function, multi-meter use, principles of automation, and principles of data communication. The course is setup as partial theory and partial hands-on lab work. Students will apply math skills to verify circuit operation. It is expected that students have a basic understanding of algebra. This course can be used as a building block into CTE courses in Electronics, Information Technology, and Automotive. This course meets the graduation requirement of .5 credits in Technology Education. **This course is offered when teacher schedule allows. **

Construction Technology

9410 Construction Technology 2

Grade 12 3.0 credits

(Prerequisite: Construction Technology 1)

Students enrolled in this program will receive instruction in advanced skills required in the construction industry which build upon competencies acquired in Construction Technology 1.

Culinary Arts

9600 CTE Culinary Arts 1

Grade 11-12 3.0 credits

(Preference given to 11th grade)

The CTE Culinary Arts class gives students the skills and knowledge they need to start a career in the restaurant industry, prepare for enrollment in Culinary school, or to become an amazing chef at home. You will have units that cover all of the major areas of cooking, including: baking, meat and seafood cookery, soup preparation, dessert making, entrée production, knife skills, sanitation, food purchasing, and many more. Experience is also gained in dining room service skills like waiting on tables at catering events. This class offers a fast-paced environment that reflects real-world restaurant experiences. If you love food and creating your own unique dishes or if you have always wanted to see what it was like to be a chef. . .then this is the class for you.

9610 CTE Culinary Arts 2

Grade 12 3.0 credits

(Prerequisite: CTE Culinary Arts 1)

This class is for students that have already completed CTE Culinary Arts 1. At the second level, you will take on greater responsibilities in the planning of events, researching recipes, and preparation of meals. This class will reinforce the skills and knowledge you learned at the introductory level, but it will also show you a more detailed look into working with food, give you the opportunity to learn new recipes, and introduce you to new units that were not part of the first level class. If you are considering attending a Culinary school after graduation or if you have plans to ever work in foodservice, then you should definitely enroll in CTE Culinary Arts 2.

9620 Introduction to Baking and Pastries

Grade 9-10 .50 credit

This elective is for anyone that loves to bake or is interested in pursuing a career in the Baking and Pastry Arts or Culinary Arts. The course will introduce you to all the basics of the bakeshop. The curriculum will cover such units as Cookies, Quickbreads, Custards, Puff Pastry and Phyllo Dough, Bakeshop Ingredient and Equipment Identification, and Sanitation. You will make and bake a huge variety of desserts in order to get the skills, experiences, and abilities necessary to create your own dishes whenever you want more.

9630 Advanced Baking and Pastries

Grade 10-11 .50 credit

(Prerequisite: Introduction to Baking and Pastries)

This elective follows in the footsteps of Introduction to Baking and Pastries. If you enjoyed that class, then you will be happy to take this one. We are going to go beyond the basic skills that you learned in that course and continue to make new and exciting desserts. You will work with specialty desserts like Pies, Tarts, and Crepes. There is a unit on cake decorating and we will make numerous cakes ranging from the basic to advanced. There is potential for small group or independent work than in the introductory class. As always, you will be able to taste and evaluate everything that you make.

6551 Introduction to Food Prep and Cooking

Grade 10-11 .50 credit

This elective course is meant to introduce students to cooking and working with food. Even if you have no experience coming in, you will leave feeling comfortable in the kitchen. This class will also help you to realize whether you have a passion for cooking and if you would like to possibly pursue it as a career. Our food units will begin with cold preparations like salsa, guacamole, salads, and dressings and transition to cooking methods used in the kitchen today; boiling (pasta and potato cookery, etc.), simmering (sauce preparation, rice cookery, etc.), and roasting (meat, poultry, and vegetable cookery, casseroles, baked goods, etc.). Each unit will include a number of recipes that you will prepare in groups and take with you to enjoy. Sanitation, equipment identification, and a large emphasis on knife skills are also included to begin a strong foundation in your culinary arts education.

6552 Advanced Food Prep and Cooking

Grade 10-11 .50 credit

(Prerequisite: Introduction to Food Prep and Cooking)

This class is the next step in your culinary education after the Introduction to Food Prep elective. We pick up right where we left off. The majority of the semester will be spent completing new recipes that focus on dry heat cooking methods such as deep-frying, pan-frying, and sautéing. You will also review the basic fundamentals of food preparation that we covered previously. This class is a great way to increase your skills and knowledge in the kitchen and develop your abilities to be able to create amazing dishes at home.

Health Sciences

9026 Introduction to Human Services

Grade 9 .05 credit

This class is good for anyone who wants to help others or explore careers in the human service field. If you are interested in teaching or the Child Care CTE program you should take this course. Students will study childhood development and agerelated milestones. Students will participate in some community service projects to help others. The students will explore their own skills and interests and develop their own individual career plan. This course also focuses on soft skills and helps students develop the organizational and communications skills they need in this type of work.

6550 Family and Consumer Science

Grade 9-10 .50 credit

This elective course is meant to help students develop a basic understanding of financial and resource management for independent living. They will improve their skills in a manner that will help to maintain a healthy lifestyle that balances work, family, and community responsibility. Such topics as food science & nutrition, child development, family functions, communication skills, and consumer rights and responsibilities will be incorporated into the course.

8114 Health Occupations

Grade 9

.50 credit

The Health Occupations course will enable students to engage in a more thorough understanding of the various occupations available in the Health field. Students will be provided information on: job descriptions, job responsibilities, including the negative and positive aspects of the jobs, training and educational requirements, salary/benefits, working environments, advancement opportunities, job security and retirement incentives through instruction, research and personal experiences with guest speakers. The course is an excellent way for students to become better prepared for making career decisions in Health related fields.

♦♦8117 Medical Terminology Survey

Grade 11-12

.50 credit

(MTR 100)

2 College Credits

Introduction to the basic structures and rules of interpreting medical terminology, designed to develop the ability to read, understand, and write the medical language. 1 Credit (1 Lecture),

♦♦8118 Basics of Medical Terminology

Grade 12

1.00 credit

(MTR 104)

3 College Credits

Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures. 3 Credits (3 Lecture)

Introduction to Health & Medical Assisting

Grade 10

.50 credit

This course is an introduction to the Health & Medical Assisting CTE Program that is designed to preview the technical knowledge and skills needed to be successful in the HMAS CTE Program, which can be taken in grades 11-12

Grade 11 2.0 credit

**This course is only available to juniors who plan to enroll full-time in the CTE program.

This first-year career and technical education course for Health & Medical Assisting (HMAS) is designed for students to acquire technical knowledge and skills within the following units of instruction: 1) Health Care Provider Skill, 2) Human Needs & Development, 3) Emergency Care & Disaster Management, 4) Communication in HMAS, 5) Professional, Legal, & Ethical Issues, 6) Safety, 7) Anatomy & Physiology, and 8) Medical Terminology. Students will obtain their OSHA 10-Hour Healthcare Certification and will explore a wide variety of occupational safety and health topics that together provide an introductory overview related to the healthcare industry including workplace hazards in healthcare and workers' rights.

Health & Medical Assisting 2

Grade 12 3.0 credit

**This course is only available to seniors who have successfully completed Health & Medical Assisting 1 who plan to enroll full-time in the CTE program.

This second-year career and technical education course for Health & Medical Assisting is designed for students to acquire technical knowledge and skills within the following units of instruction: 1) Nutrition & Hydration, 2) Infection Control, 3) Related Diseases of the Human Body, 4) Death & Dying, 5) Advanced Anatomy & Physiology, and 6) Advanced Medical Terminology. Students will obtain their Patient Care Technician (PCT) Certification. PCTs are multi-skilled allied healthcare professionals who work under the supervision of a nurse or physician. These individuals are trained to work in a hospital or clinic setting. PCTs can perform duties such as responding to patient calls, assisting patients with personal hygiene, serving meals, assisting with therapies, and monitoring vital signs. Other responsibilities of a PCT consist of drawing laboratory specimens, inserting and removing catheters, performing dressing changes and electrocardiograms (ECGs), and assisting with oxygen therapy.

Machining & Manufacturing Engineering

0052 Machining & Manufacturing Engineering Exploration

Grade 9

.25 credit

(This course is part of the 9th grade pathway rotation)

This course is the gateway class for the Career and Technical Education (CTE) or Manufacturing Engineering Pathway: Students will learn and explore CADD (Computer Aided Drawing & Design), 3D Printing, Welding, Sheet Metal Fabrication and CNC (Computer Numeric Control) applications. Students will focus on the fundamental skills necessary to explore Manufacturing Engineering.

This course could be taken with other exploratory .25 credit courses from the following programs: Networking, Automotive, Construction, Technology Education, Building & Maintenance and Communications.

9700 Introduction to Machining & Manufacturing Engineering

Grade 10-11 .50 credit

(Preference given to 10th grade)

This course provides students with the opportunity for hands-on experience in the computer-enhanced manufacturing process. Students will acquire skills in Measurement, Machining, Welding, Computer Aided Design (CAD), Computer Numeric Control (CNC) programming, automated applications and tool technology. This course is intended to teach the basic skills that allow you to enter the vast area of manufacturing engineering or prepare you to further your education in post-secondary schools. This class fulfills the required 0.5 Technology Ed credits for graduation.

9710 Machining & Manufacturing Engineering 1

Grade 11-12 3.0 credits

(Preference given to 11th grade)

Manufacturing Technology is a hands-on course that will explore various areas of manufacturing and the supporting elements of manufacturing processes. Students will learn fundamental skills in areas such as: Print Reading, Machining, Welding, CNC(Computer Numerical Control), Material Layout, CAD(Computer Aided Drawing), CAM (Computer Aided Manufacturing), Measurement, Electricity and Automation. This course will have an emphasis on theory as well as practical hands- on skills. This course, will allow students to gain the proficient knowledge to step into the higher level manufacturing courses. Students will also prepare for the (OSHA) Occupational Safety & Health Administration certification.

9720 Manufacturing Engineering 2

Grade 12 3.0 credits

(Prerequisite: Manufacturing Engineering Technology 1)

Manufacturing/ Engineering Technology 2 is an advanced level course that will utilize advanced, tools, materials, and techniques to design and manufacture several products. This will allow the students to apply their skills and problem-solving abilities to overcome a number of design and fabrication problems that would be similar to the problems found in any industrial setting if they were manufacturing a product. Students will focus heavily in areas such as: Print Reading, Machining, Welding, CNC(Computer Numerical Control), Material Layout, CAD (Computer Aided Drawing), CAM (Computer Aided Manufacturing), Measurement, Mechanical Drives, Electricity and Automation.

CTE Electives

0610 Career Readiness

Grade 10-11 .50 credit

Students will be expected to work independently to successfully complete the course. Career Readiness will introduce students to career development strategies within a *Learn & Apply* format that facilitates skill development and application. In this course students will identify their interests and research career paths that match those interests. Students will develop a career portfolio, participate in mock interviews, demonstrate employability skills and produce collaborative presentations.

9620 Introduction to Baking and Pastries

Grade 10 .50 credit

This elective is for anyone that loves to bake or is interested in pursuing a career in the Baking and Pastry Arts or Culinary Arts. The course will introduce you to all the basics of the bakeshop. The curriculum will cover such units as Cookies, Quickbreads, Custards, Puff Pastry and Phyllo Dough, Bakeshop Ingredient and Equipment Identification, and Sanitation. You will make and bake a huge variety of desserts in order to get the skills, experiences, and abilities necessary to create your own dishes whenever you want.

9630 Advanced Baking and Pastries

Grade 10-11 .50 credit

(Prerequisite: Introduction to Baking and Pastries)

This elective follows in the footsteps of Introduction to Baking and Pastries. If you enjoyed that class, then you will be happy to take this one. We are going to go beyond the basic skills that you learned in that course and continue to make new and exciting desserts. You will work with specialty desserts like Pies, Tarts, and Crepes. There is a unit on cake decorating and we will make numerous cakes ranging from the basic to advanced. There is potential for small group or independent work than in the introductory class. As always, you will be able to taste and evaluate everything that you make.

6551 Introduction to Food Prep and Cooking

Grade 10-11 .50 credit

This elective course is meant to introduce students to cooking and working with food. Even if you have no experience coming in, you will leave feeling comfortable in the kitchen. This class will also help you to realize whether you have a passion for cooking and if you would like to possibly pursue it as a career. Our food units will begin with cold preparations like salsa, guacamole, salads, and dressings and transition to cooking methods used in the kitchen today; boiling (pasta and potato cookery, etc.), simmering (sauce preparation, rice cookery, etc.), and roasting (meat, poultry, and vegetable cookery, casseroles, baked goods, etc.). Each unit will include a number of recipes that you will prepare in groups and take with you to enjoy. Sanitation, equipment identification, and a large emphasis on knife skills are also included to begin a strong foundation in your culinary arts education.

6552 Advanced Food Prep and Cooking

Grade 10-11 .50 credit

(Prerequisite: Introduction to Food Prep and Cooking)

This class is the next step in your culinary education after the Introduction to Food Prep elective. We pick up right where we left off. The majority of the semester will be spent completing new recipes that focus on dry heat cooking methods such as deep-frying, pan-frying, and sautéing. You will also review the basic fundamentals of food preparation that we covered previously. This class is a great way to increase your skills and knowledge in the kitchen and develop your abilities to be able to create amazing dishes at home.

9930 Co-operative Education Experience

Grade 12 up to 4.0 credits

**This course is only available to students enrolled in the CTE program

The Co-operative Education experience allows students to gain school-to-work skills through work-based placement opportunities for CTE students who are enrolled in a Career and Technical Education Program. Students who meet the requirements of basic trade and technical training, good attendance, a good attitude and work habits, are recommended to the employer for on-the-job training. The Cooperative Education experience translates to a student grade and credit is granted towards graduation. Students can earn up to four (4) elective credits through a Cooperative Education experience.

9931 Diversified Occupations (DO)

Grade 12

up to 4 credits

**This course is only available to students NOT enrolled in a CTE program

The Diversified Occupations (DO) program assists students in entering the workforce through career exploration, job search skills, paid work experience, and the development of positive work attitudes and work-related skills. Employment is a required component of this program and students will also participate in a work experience classroom course covering career planning, money management, communication skills, responsibility, interpersonal business relationships, and appropriate work habits.

9932 CTE Experience/Internship

Grade 11-12 up to 4.0 Credits

**This course is only available to juniors or seniors enrolled in the CTE program.

This work-based program is designed for CTE students in grades 11 or 12 with a career goal aligned with their CTE program of study. This program can be a student-managed project where CTE students may own and operate a related program business, have related experience or an internship, plan, and complete related skill-based projects, or explore careers within the program area industry. The CTE Program Instructor and Cooperative Education Coordinator provide guidance and oversight of these outside of class projects as students maintain accurate records of completion. Students can consider multiple careers and occupations, learn expected workplace behaviors, develop specific skills within an industry, and are given opportunities to apply academic and occupational skills in the workplace or a simulated workplace environment. Through these strategies, students learn how to apply what they are learning in the classroom as they prepare to transition into the world of college and career opportunities.

English

Students are required to earn a minimum of four (4) English credits for graduation, pass the English 9 course, and take the Keystone Literature Exam in order to graduate. Students who do not score proficient or advanced on the Keystone Literature Exam in 9^{th} grade will be required to take the Keystone English course in 10^{th} grade and take the Keystone Literature Exam again a second time.

Career or College Pathway-English

(Workforce, technical, 2 year associates degree 4 year college degree pathway)

0120 English 9

Grade 9

1.0 credit

This course emphasizes a variety of literature, including Shakespeare's *Romeo and Juliet*, Homer's *The Odyssey*, and Harper Lee's *To Kill a Mockingbird*, as well as a number of novels, short stories, and poems. Research and documentation methods are crucial components, in addition to the writing process. Word studies are conducted, as well as taking words in context from literature. Literary concepts will be emphasized. This course is designed to prepare students to take the Keystone Literature Exam in May of the freshman year.

0223 English 10

Grade 10

1.0 credit

(Required for grade 10 students who do no score proficient or advanced on Keystone Literature Exam in grade 9)

This course is designed to reiterate basic literary and composition skills. Students will read selections of American literature from all genres encompassing early American history to modern times and complete writing assignments to correlate and complement each unit. Emphasis will be placed on *Something for Joey, The Great Gatsby*, and *The Crucible*. Students in this course will re-take the Keystone Literature Exam in May of the sophomore year.

0220 Academic English 10

Grade 10

1.0 credit

Students will read selections of American literature from all genres encompassing early American history to modern times and complete writing assignments to correlate and complement each unit. Emphasis will be placed on *Something for Joey, The Great Gatsby*, and *The Crucible*. Students will study the historical evaluation of American dramatic literature from prehistoric to modern times, focusing on its European background from the various periods of history and the connection between a culture's beliefs and writings.

0323 English 11

Grade 11

1.0 credit

This course will focus on literature with themes about the outdoors. In addition to short stories, novels, poems, and magazine articles, students will read and analyze *Into the Wild* and study the concept of American Transcendentalism and how it applies to modern literature. Students will also focus on the writings and beliefs of Leo Tolstoy, Jack London, Ralph Waldo Emerson, and Henry David Thoreau. This course also includes a combination of research skills and public speaking. Composition instruction stresses the writing process with precise techniques for writing the multi-paragraph expository theme. Several two-four-page research papers will focus on research skills and MLA/APA format. Fundamentals of public speaking will focus on organizing the essential parts of a speech, with emphasis given to integration of a visual aid.

0545 English 11 College Preparation

Grade 11 1.0 credit

This course will enhance vocabulary-building skills and comprehension of college-level fiction and non-fiction reading material. It will also focus on completing college applications and writing college entrance and scholarship essays. In addition, students will read and analyze Animal Farm. A research unit on colleges, majors, requirements, and expenses will result in an MLA-formatted paper and a presentation. This course also includes a combination of research skills and public speaking. Composition instruction stresses the writing process with precise techniques for writing the multi-paragraph expository theme. Several two-four-page research papers will focus on research skills and MLA/APA format. Fundamentals of public speaking will focus on organizing the essential parts of a speech, with emphasis given to integration of a visual aid. Upon completion of this course, students should be adequately prepared to take the verbal section of the SAT.

0550 Fantasy Fiction

Grade 12 .50 credit

This course will read an assortment of myths and stories from cultures around the world, including Greek, Roman, Norse, Celtic, Eastern Europe/Russia, Native American, as well as local myths and folklore, and identifying their influence on modern-day literature. Activities will include discussions, projects, essays, and research.

0555 World Literature

Grade 12 .50 credit

This course will include a survey of literature and related vocabulary from various parts of the world from the beginning of recorded history to the present. Emphasis will be placed on the cultural connection between a society and its writings. Activities will include discussions, projects, essays, and research.

0423 Biography

Grade 12 .50 credit

This course will explore and read different examples of biographies and analyze the common components to a "quality" biography". Students will then write and complete their own biographies in the form of a senior memory book, containing chapters about their life experiences.

0530 Technical Communication

Grade 12 .50 credit

This course will focus on English skills especially relevant to vocational careers. Focus will be on using research to prepare a variety of informative and explanatory texts for internal company and client communication in a concise manner, including formal tone, domain-specific language, efficient organization, and multimedia graphics. Reading, interpreting, and analyzing these types of texts will also be addressed. Resume writing, professionalism, and other interpersonal communication skills will be included, as well.

♦♦ 0424 (ENL111) English Composition 1

Grade 12

.50 credit 3.0 college credits

This course is weighted 1.1

This dual-enrollment college course focuses on fundamental writing and research skills with an emphasis on expository writing. An emphasis is placed on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. Any student selecting this course must have administrative approval. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam and purchase the book for this course. With successful completion, students will receive 3 credits for the ENL111 course through Pennsylvania College of Technology

Honors Pathway-English

(4 year college degree pathway)

0130 English Honors 1

Grade 9

1.0 credit

Recommended prerequisite: recommendation of 8th grade ELA teacher or permission of instructor This course requires summer reading and assignments.

The course of study includes a variety of literature similar to that of English 9. A study of the history of the background of the author and period is included to provide insight into the piece of literature. Grammar is taught in correlation with writing and vocabulary. Sentence structure and more advanced grammar concepts are fine-tuned from basic knowledge. Particular writing methods are taught, including formal research, expository, comparison and contrast, and persuasive. Developmental vocabulary is continued through vocabulary texts, context of literature, and word lists that accompany pieces of literature. Independent reading and IXL are used to enhance standardized test scores. This course will prepare students to take the Keystone Literature Exam in May of the freshman year.

0230 English Honors 2

Grade 10

1.0 credit

Recommended prerequisite: 90% or higher in Honors 1 and proficient or advanced score on the Keystone Literature Exam Students not meeting these criteria must meet with the instructor to discuss course expectations prior to scheduling. This course requires summer reading and assignments.

Students will complete a rigorous academic course that focuses on classic literature, poetry, writing, non-fiction, drama, and cinema. In addition, the course stresses reading outside of class and project-based learning. The writing in the course will focus on analyzing multiple texts from multiple genres in coherent and well-organized essays which use MLA format. The course will explore and focus on primarily American literature and the historical context that impacts writing. This course is recommended for 10th graders who plan to take AP English their senior year.

0330 English Honors 3

Grade 11 1.0 credit

Recommended prerequisite: 90% or higher in Honors 2 Students not meeting this criteria must meet with the instructor to discuss course expectations prior to scheduling. This course requires summer reading and assignments.

The advanced level of junior English helps the talented student to grow in analytical and interpretive thinking and challenges his creativity. The core content of the course is a study of British literature, conducted both thematically and chronologically. British novels and plays incorporated into the course are pieces that also appear on AP exam reading lists. At least one Shakespeare play will be read and analyzed. The methodology and vocabulary of literary criticism are applied in writing assignments and individual projects. Instruction in the conduct and writing of research is provided. Grammar and vocabulary studies focus on skills required for colleges, as well as for College Board and AP exams. Analytical skills are developed in readiness for the literature portion of the AP exam the following year.

0450 Advanced Placement English

Grade 12 1.0 credit

This course is weighted 1.1, Recommended prerequisite: 86% or higher in Honors 3 or recommendation of instructor Students not meeting this criteria must meet with the instructor to discuss course expectations prior to scheduling. This course requires summer reading and assignments.

The Advanced Placement course prepares the student for college-level English courses and for the nation-wide Advanced Placement English Literature Exam in May of the current school year. Students who are successful with the AP exam may be granted college credit by the academic institution they choose to enter after high school. The reading, writing, and thinking requirements are formidable, requiring extensive analytical and critical thinking elements that are built upon

from the previous honors courses. Instruction focuses on note-taking; class discussion encourages differences of opinion; essay exams emphasize supporting one's interpretation with specific details from the readings; and writing assignments stress coherency and the mechanics of writing: i.e., grammar, punctuation, and spelling. Close reading is given to an extensive series of classics, great novels, plays, poems, essays, and stories. Each marking period will be directed towards the reading of a novel, drama, Shakespeare play, and independent reading assignment.

♦♦ 0424 (ENL111)

English Composition 1

Grade 12

.50 credit 3.0 college credits

This course is weighted 1.1

This dual-enrollment college course focuses on fundamental writing and research skills with an emphasis on expository writing. An emphasis is placed on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. Any student selecting this course must have administrative approval. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam and purchase the book for this course. With successful completion, students will receive 3 credits for the ENL111 course through Pennsylvania College of Technology.

The Following Elective Courses Will NOT Count for English Credit

0501 Journalism

Grade 9-12 1.0 credit

The chief activity in the course is the production of the school newspaper, The Paw Print. Students will learn skills in reporting, interviewing, writing the article, editing, making layouts, and using desktop publishing software on the computer. Methods of the modern daily newsroomare simulated. Enthusiastic journalists are invited to provide the editorial leadership for the production staff. Students may repeat the course the following year. This is an elective credit not an English credit.

9180 Yearbook Publications

Grade 10-12 1.0 credit

(Prerequisite: Students must have a good scholastic record, faculty recommendations, demonstrated ability to work well with others and good time management skills. Students interested in being on staff must meet a strict application process and have the approval of the yearbook advisors.)

The publication of the school yearbook, the Orange and Black, is carried out each year by students dedicated in producing the best yearbook ever. If you like dealing with people, accepting responsibility, and working hard, then this course is designed for you. In this course you will participate in the designing, planning and layout of the yearbook, be responsible for specific yearbook pages, organize photo assignments, and select topics and generate written copy for your assigned pages. You will also participate in business activities, such as marketing, selling, handling money and maintaining accurate records. This is an elective credit not an English credit.

Mathematics

Upon completion of 8th grade, all students will need to choose a math pathway for high school.

Career or Academic Pathway-Mathematics

(Workforce, technical or 2 year associates degree pathway)

With teacher recommendation

2120 Algebra 1

Grade 9

2.0 credit

The study of Algebra lays the foundation for mathematics, sciences, and technical courses a student will be taking in the future. Students learn to express relationships verbally, pictorially, graphically, and symbolically. Equations are solved graphically prior to solving them symbolically. Emphasis is on connections to the real world and to various mathematical strands. Geometric models are used to connect the visual and the symbolic. The second half of the year will focus on topics such as functions, polynomials, series, sequences, and conic sections. Emphasis is placed on fundamental algebra skills such as factoring and solving linear systems. Use of a graphing calculator is essential throughout the course.

2126 Keystone Algebra 1 Remediation

Grade 9*-11

.50 credit

This course will target and reinforce basic information specifically related to the student performance on the Keystone Algebra 1 Exam. Students will complete assignments related to and correlated to each unit of study identified by the Keystone Anchors addressed in the Keystone Algebra 1 Exam. Students will learn studying and test-taking strategies designed to assist them in attaining proficiency on the Keystone Algebra 1 Exam.

2148 Career Algebra 2

Grade 10

1.0 credit

This course is a continuation of topics covered in Career Algebra 1. Various topics are introduced such as functions, polynomials, series, sequences, and conic sections. Emphasis is placed on fundamental algebra skills such as factoring and solving linear systems. Use of a graphing calculator is essential throughout the course. (All students who have not scored proficient or advanced on the Keystone Algebra I Exam must take the exam at the middle and/or end of the course)

2154 Career Algebra 3

Grade 11

1.0 credit

This course is a continuation of topics covered in Career Algebra 2. Various topics are introduced such as functions, polynomials, series, sequences, and conic sections. Emphasis is placed on fundamental algebra skills; radical, rational, exponential, and logarithmic functions; and probability and statistics. Use of a graphing calculator is essential throughout the course.

2150 Unified Algebra and Trig

Grade 12 1.0 credit

(Prerequisite: Career Algebra 3 or Geometry)

This course is a continuation of topics covered in Career Algebra 3/Algebra 2/Geometry. Functions and polynomials are continued with the introduction of trigonometric functions. Transformations of parent functions are extended from Career Algebra 3/Algebra 2/Geometry. Circular functions are introduced through the rectangular coordinate system. Use of a graphing calculator is essential throughout the course.

Academic Pathway-Mathematics

(2 year associates or 4 year college degree pathway)

2122 Academic Algebra 1

Grade 9

1.0 credit

The study of Algebra lays the foundation for mathematics, sciences, and technical courses a student will be taking in the future. Students learn to express relationships verbally, pictorially, graphically, and symbolically. Equations are solved graphically prior to solving them symbolically. Emphasis is on connections to the real world and to various mathematical strands. Geometric models are used to connect the visual and the symbolic. Use of scientific and graphing calculators is encouraged throughout the course. This course covers the same materials as #2120 but with more emphasis on the abstract applications and concepts and prepares the student to take the Keystone Exam at the end of the course. All students must take the Keystone Exam for Algebra 1.

2142 Academic Algebra 2

Grade 10 or 11

1.0 credit

Prerequisite: Algebra 1 with a recommended minimum grade of 80%

The study of Academic Algebra 2 continues to build on sequential approaches as in Academic Algebra 1. The sequence from variable to relationships to functions is extended to include using functions as models for applied settings. Algebraic and geometric concepts are connected to topics in probability, statistics, trigonometry, and discrete mathematics. Functions are developed through tabular and graphical approaches aided by technology. A special emphasis is given to the concept of change as embodied in linear, polynomial, exponential functions. Included are important topics for today's technical world---paths and circuits, and optimization. Use of a graphing calculator is essential throughout the course.

2132 Academic Geometry

Grade 10 or 11

1.0 credit

Grade 10 Prerequisite: Algebra 1 with a recommended minimum grade of 80%

Grade 11 Prerequisite: Successful completion of Algebra 2 with a recommended minimum grade of 80%

In the study of geometry, students use inductive reasoning to identify patterns, and make conjectures---apply deductive reasoning to confirm conjectures through proof. The course begins with a strong development of visualizations and drawing skills. Algebraic and geometric models are used throughout to model a variety of real world situations. Proof is developed carefully throughout the text with an emphasis on understanding. Various proof formats are compared and used when appropriate---paragraph, flow-chart, and two column. The use of synthetic, coordinate, transformation, and vector approaches are promoted to help students understand the big ideas. Coordinate and transformation techniques are introduced early and used when appropriate. The use of manipulatives and constructions are integrated throughout to promote active involvement. This course emphasis is on the abstract applications and concepts.

2152 Academic Trig/Pre-Calculus

Grade 12

1.0 credit

Prerequisite: Geometry and Algebra 2 with a minimum grade of 80 %

The study of Pre-Calculus begins with a thorough review of the advanced topics of Algebra. The circular functions are introduced through the rectangular coordinate system which integrates the algebraic functions with the transcendental functions. Use of a graphing calculator is essential throughout the course.

1.0 credit

2146 College Algebra

Prerequisite: Algebra 2

This course is designed for seniors who will attend college after graduation and will need to be proficient on placement tests. This is not for students pursuing a math or science field. Topics include real numbers, variable expressions, linear equations in one and two variables, inequalities, exponents and scientific notation, polynomial operations, and application problems, systems of linear equations, polynomial division and special products, factoring, rational expressions, radical expressions, quadratic equations, functions and application problems. Emphasis on math study skills. Technology is used to enhance thinking and understanding, to solve problems, and to judge/verify results. Verbal, numerical, graphical and symbolic approaches assist in the discovery and communication of mathematical concepts.

Honors Pathway-Mathematics

(4 year college degree pathway)

2133 Geometry Honors

Grade 9

Grade 12

1.0 credit

Grade 9: Algebra 8 with a recommended minimum 90% average and Proficient or higher on the Keystone Algebra 1 exam

This is the accelerated Geometry for the 9th grade. In the study of geometry, students use inductive reasoning to identify patterns, and make conjectures---apply deductive reasoning to confirm conjectures through proof. The course begins with a strong development of visualizations and drawing skills. Algebraic and geometric models are used throughout to model a variety of real world situations. Proof is developed carefully throughout the text with an emphasis on understanding. Various proof formats are compared and used when appropriate---paragraph, flow-chart, and two column. The use of synthetic, coordinate, transformation, and vector approaches are promoted to help students understand the big ideas. Coordinate and transformation techniques are introduced early and used when appropriate. The use of manipulatives and constructions are integrated throughout to promote active involvement. This course emphasis is on the abstract applications and concepts, with a stronger emphasis on proofs and theory.

2143 Algebra 2 Honors

Grade 10

1.0 credit

Prerequisite: Geometry Honors with a recommended minimum 86% average

This course is the accelerated Algebra II. The sequence from variable to relationships to functions is extended to include using functions as models for applied settings. Algebraic and geometric concepts are connected to topics in probability, statistics, trigonometry, and discrete mathematics. Functions are developed through tabular and graphical approaches aided by technology. A special emphasis is given to the concept of change as embodied in linear, polynomial, exponential functions. Included are important topics for today's technical world---paths and circuits, and optimization. Use of a graphing calculator is essential throughout the course.

2153 Trig/Pre-Calculus Honors

Grade 11

1.0 credit

Prerequisite: Algebra 2 Honors with a recommended minimum grade of 86%

This course is the accelerated Pre-Calculus for the 11th grade. The study of Pre-Calculus begins with a thorough review of the advanced topics of Algebra. The circular functions are introduced through the rectangular coordinate system which integrates the algebraic functions with the transcendental functions. Use of a graphing calculator is essential throughout the course.

2146 College Readiness Algebra

Grade 12 1.0 credit

Prerequisite Academic Algebra 2

This course is designed for seniors who will attend college after graduation and will need to be proficient on placement tests. This is not for students pursuing a math or science field. Topics include real numbers, variable expressions, linear equations in one and two variables, inequalities, exponents and scientific notation, polynomial operations, and application problems, systems of linear equations, polynomial division and special products, factoring, rational expressions, radical expressions, quadratic equations, functions and application problems. Emphasis on math study skills. Technology is used to enhance thinking and understanding, to solve problems, and to judge/verify results. Verbal, numerical, graphical and symbolic approaches assist in the discovery and

2162 Calculus Grade 12 1.0 credit

Prerequisite: Trig/Pre-Calculus or Trig/Pre-Calculus Honors with a recommended minimum grade of 80%

Calculus is offered to the student who excels in mathematics. Topics include analytic geometry, limits and continuity, derivatives, and integration. The approach to this course integrates the use of numerical, graphical, and algebraic techniques.

2163 Calculus-Advanced Placement

Grade 12 1.0 credit

 $Prerequisite: Trig/Pre-Calculus\ Honors\ with\ a\ recommended\ minimum\ grade\ of\ 86\%.$

This course is weighted 1.1

This course is offered to the senior student who excels in Mathematics. It prepares the student to take the nationwide Advanced Placement Exam in May of the current school year. Students who are successful with that exam may be granted college creditby the academic institute they choose to enter after high school. This course covers topics above and beyond the regular Calculus course with a strong emphasis on past Advanced Placement exams. It is a demanding course and will require the student to do Chapter 1 over the summer so that it is possible to cover all necessary topics by the beginning of May, prior to the exam.

Mathematic Electives

(will count as a math credit)

2170 Statistics *Grade 11-12* 1.0 credit

(Prerequisite: Algebra 2 / Academic Algebra 2)

This one semester course is designed to show students how statistics are used to picture and describe the world and make informed decisions. The course is designed not to produce statisticians but to produce informed consumers of statistical reports. Students will be required to provide written explanation, find patterns, and make decisions. This course is recommended for any college bound student.

2172 AP Statistics Grade 12 1.0 credit

Prerequisite: Academic Algebra 2

This course is weighted 1.1

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data.

Students are exposed to four broad conceptual themes. First, Exploring Data: Describing patterns and departures from patterns. Second, Sampling and Experimentation: Planning and conducting a study. Third, Anticipating Patterns: Exploring random phenomena using probability and simulation. Fourth, Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course.

2174 SAT Math Grade 11 Honors - .50 credit
Grade 12 Academic

SAT Math is offered to provide any student with skills for improving or preparing for the SAT exam. This one semester course allows students to review such topics as arithmetic, algebra and geometry in a mock testing environment. *Recommended for College Bound Juniors*.

♦♦ 2147 MTH 123 Technical Algebra and Trigonometry I Grade 12 0.5 credit 3.00 college credits

(Highly recommended prerequisite: Course 2152--Academic Trig / Pre-Calculus)

This course is weighted 1.1

through Pennsylvania College of Technology.

Study of intermediate algebra and trigonometry, designed to prepare students for course work in their technical majors. Topics include algebraic expressions, linear equations, systems of equations, right triangle trigonometry, functions, graphs, geometry, ratio and proportion, and variation. Emphasis on problem solving and technical application as well as the use of technology. Not designed to prepare students for calculus. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam. With successful completion, students will receive 3 credits for the MTH 124 course

Modern Language

Modern Language can be the key to a successful future in both school and business. More than 70% of U.S. firms report that knowledge of a second language is an important consideration for successful employment. They seek employees with functional language skills as well as sensitivity to social and cultural differences. Speakers of a foreign language are greatly valued by international business firms as well as social services, law enforcement, manufacturers, health service providers, and local employers. Most universities recommend foreign language study as both an admission and graduation requirement. Students who study a foreign language demonstrate a better understanding of other cultures in addition to their own. Combining foreign language skills with almost any other career pathway makes the student more desirable in the field of future employment.

5140 Spanish 1

Grade 9-12 1.0 credit

This course is an introduction to the language and culture of societies with different speech and lifestyles. The initial stages of language learning include mastery of a new sound system through oral repetition and practice of pronunciation, vocabulary, phrases, and, eventually, conversations. Reading and writing in the language will be studied. The student will be introduced to the new culture throughout the year through use of books and other visuals, foods, native speakers, magazines, etc. as available. The culture--that is, the behavior, beliefs, and values--of the people studied is an integral part of this course. Evaluation is based onoral class participation, completion of homework assignments, projects, oral and written quizzes, and unit tests. Students will be expected to complete assignments in a self-disciplined, self-motivated manner.

5240 Spanish 2

Grade 10-12 1.0 credit

Prerequisite: Successful completion of Spanish 1

Level 2 stresses the continued use of the spoken language in the classroom. Students will continue grammar studies related to development of aural, oral, reading, and writing skills. Culture will be presented as an integral part of the course. Emphasis will be placed on the benefits of language study, both in the social and the business world. Evaluation will be based on oral participation, completion of homework assignments, projects, quizzes, and chapter test scores. Self-motivation and self-discipline are important for a successful language study.

5340 **Spanish 3**

Grade 11-12 1.0 credit

Prerequisite: Successful completion of Spanish 2

At the third level, past grammar concepts will be reviewed, and by the end of the year, most basic grammar concepts will have been introduced. The student will be required to speak in the foreign language as much as possible, and original written work will be stressed. Study will also center on culture and current events; emphasis will be placed on foreign language as an asset to any chosen career. Evaluation will be based on class participation, completion of homework assignments, quizzes, tests, and composition work. Attitude and effort are also considered in student evaluation.

5440 Spanish 4

Grade 12 1.0 credit

Prerequisite: Successful completion of Spanish 3/3 Honors

Level 4 of language study is a refinement of concepts mastered at the preceding levels through continued practice of the basic skills. Cultural aspects and literature of the language will be explored with stress on reading and conversation skills. There will be continued emphasis on the benefit of foreign language to any chosen career. Evaluation will be based on oral participation, completion of homework assignments, individual and group projects, compositions, quizzes, and chapter tests. Consideration is given to student attitude and effort toward learning.

5540 Spanish--Advanced Placement

Grade 12

1.0 credit

This course is weighted 1.1

Prerequisite: Successful completion of Spanish 3/3 H, teacher recommendation advised

AP Spanish will offer students with a 90% average or better in Spanish III Honors the opportunity to improve their skill level in the areas of listening, writing, reading, and speaking. This intensive preparation will enable independently motivated students to prepare for the AP exam thereby getting college credit and/or exemption from beginning levels of Spanish in college. Students should expect at least one hour of work per school night. The course will be conducted in Spanish, and students will be expected to have daily assignments prepared before coming to class, so that class time itself is best utilized for practice and discussion.

Students will be expected to take the AP Spanish Language and Culture exam.

5120 German 1 *Grade 9-12* 1.0 credit

A beginners course in German. No prior knowledge of German is required. Students will learn how to communicate effectively in German at a beginners level. Students will also gain an in-depth understanding of German culture. The *Komm Mit!* Level 1 textbook is used for German 1, which includes 12 chapters. The abilities of students who complete German 1 will measure at the *Novice High* level according to the ACTFL Proficiency Guidelines.

5220 German 2 *Grade 10-12* 1.0 credit

Prerequisite: Successful completion of German 1

A beginner/intermediate course in German. It is assumed that students have taken a German 1 course and have learned how to communicate effectively in German at a beginners level. Students continue to learn how to communicate effectively in German at a beginner-intermediate level. Students will continue to gain an in-depth understanding of German culture. The *Komm Mit!* Level 2 textbook is used for German 2, which includes 12 chapters. The abilities of students who complete German 2 will measure at the *Intermediate High* level according to the ACTFL Proficiency Guidelines

5320 German 3 *Grade 11-12* 1.0 credit

Prerequisite: Successful completion of German 2

An intermediate/advanced course in German. It is assumed that students have taken a German 2 course and have learned how to communicate effectively in German at an beginner-intermediate level. Students continue to learn how to communicate effectively in German at an intermediate-advanced level. Students will continue to gain an in-depth understanding of German culture. The *Komm Mit!* Level 3 textbook is used for German 3, which includes 12 chapters. The abilities of students who complete German 3 will measure at the *Advanced High* level according to the ACTFL Proficiency Guidelines.

5420 German 4 Grade 12 1.0 credit

Prerequisite: Successful completion of German 3

An advanced course in German. It is assumed that students have taken a German 3 course and have learned how to communicate effectively in German at an intermediate-advanced level. Students continue to learn how to communicate effectively in German at an advanced level. Students will continue to gain an in-depth understanding of German culture. The *Dreimal Deutsch* textbook is used for German 4. The abilities of students who complete German 4 will measure at the *Advanced High* level according to the ACTFL Proficiency Guidelines.

Music

5600 Concert Band

Grade 9-12 .50 credit

The Concert Band is a high school performing ensemble which rehearses every other day. Participants include students who have been involved in the music program since elementary and middle school. The Band performs for evening concerts and other special events throughout the year. Repertoire includes music from various periods of music history as well as contemporary wind ensemble literature and marches. Band members, *in good standing*, will have the opportunity to audition for LCBDA/PMEA county/district/region/state festivals. Opportunity for solo and small ensemble concerts may also present themselves throughout the year. Previous experience playing an instrument in the district's music program is highly encouraged, although not necessarily required. Students without previous playing experience must meet with the director for permission to schedule this course.

Extra-Curricular - Marching Band

Grade 9-12 No credit

The Bulldog Marching Band is an extra-curricular activity that meets entirely outside of the school day. Students do not need to participate in Concert Band in order to be a member. The marching band provides entertainment to the community through parades and football games. This ensemble also participates in local marching band competitions as well as the Lycoming County Band Director's Marching Exhibition. The Bulldog Marching Band begins each season over the summer and continues through the end of Marking Period 1. Repertoire includes serious works for marching band as well as contemporary and popular music. *Prior experience with color guard is NOT required as students will be taught by a color guard instructor*.

5601 Concert Choir

Grade 9-12 .50 credit

The Concert Choir is a high school performing ensemble which rehearses every other day. The Concert Choir performs at school concerts and special events throughout the year. Repertoire includes music from various periods of history, as well as world and American music, folk and contemporary. The Concert Choir members, *in good standing*, may audition for PMEA district/region/state festivals and other select ensembles. Other performance opportunities may become available to perform in solo and ensemble concerts throughout the year.

Additional Ensembles/Activities - Co-Curricular

Grade 9-12 No credit

Students involved in the music program will also have the opportunity to participate in smaller, seasonal activities at the Jersey Shore Area Senior High School. *Possible* groups include: jazz band, wind ensemble, percussion ensemble, quartets, quintets, pep band, and various select vocal ensembles. Students are chosen by auditions for certain groups

5607 Song Writing

Grade 11-12 .50 credit

This course explores how to write, record, and publish new songs. This class begins with a brief introduction to basic music theory and song structure before diving into composition. Throughout the course, students will have the opportunity to compose short songs, write their own lyrics, and study the characteristics of popular genres. There will be frequent projects and opportunities to write new songs alone and with partners. This course concludes with units on recording and editing music, as well as units on copyright laws and resources for publishing your music!

5606 Stage Technology

Grade 11-12 .50 credit

This course dives into the processes involved with theatrical production. Topics include elements of physical theatre, safety practices, directing, scenic design, lights, sound, and career application. During this class, students will be prepared to produce a play or musical with the theatre department (Middle and/or High School).

*Students who take this class are required to be involved with an extra-curricular theatre production including rehearsals after school hours and on weekends as needed.

5700 Music Theory 1

Grade 10-12 .50 credit

(Prerequisite: Previous knowledge of how to read music is required)

The purpose of this course is to explore the basic elements of Music Theory and how music is composed. Students will learn how to write their own music by learning the rules of music composition and applying those rules using Sibelius music writing software. Students will be required to compose pieces based on compositional techniques learned in class. This semester course is open to all students who have an interest in the way music is composed or would like to learn the rules of music composition and how they are utilized today using the latest music writing software.

5701 Music Theory 2

Grade 10-12 .50 credit

(Prerequisite: Completion of Music Theory I with a passing grade)

The purpose of this course is to continue the study of Music Theory at a higher level. Students will apply the basic elements from Music Theory I to write their own music, but add more complex concepts of music composition. Students will be required to use Sibelius music writing software to compose pieces based on compositional techniques learned in class. In addition to the written theory portion of the course, students will also receive aural theory training which will aid in their ability to sight read and sight sing more accurately. This semester course is open to all students who wish to continue their Music Theory studies, explore the way music is composed, further understand the rules of music composition, and experience how they are utilized today using the latest music writing software.

5705 Music History

Grade 9-12 .50 credit

This course is designed to help students understand how music has progressed throughout history and the stylistic changes music endured during different eras. In this class, students will listen to various styles of sacred and secular music from various countries as well as music by well-known composers. Students should be prepared to take notes and keep a detailed notebook. Inaddition, students will be required, on occasion, to write short papers/essays and give oral presentations. This semester course is open to all students who have an interest in the history of music. *Previous knowledge of how to read music is not required, but would be helpful*.

5710 History of Rock and Roll: 50's, 60's, 70's

Grade 9-12 .50credit

This semester course was created to fulfill the art/music/fcs component of the graduation requirements. It is designed to help students understand what constitutes the idea of "rock and roll" and it's progression from the early 1950's through the 1970's. In this class, students will listen to examples of music from various artists/groups from the various time periods. In particular, considerable time is spent on music of the 1950's, 1960's, 1970's. Students should be prepared to take notes and keep a notebook for the class. In addition to quizzes/tests, students may be required to prepare an oral group presentation and an individual project.

5711 History of Rock and Roll: 80's, 90's 2000's

Grade 9-12 .50credit

This semester course was created to fulfill the art/music/fcs component of the graduation requirements. It is designed to help students understand what constitutes the idea of "rock and roll" and it's progression from the early 1980's through the 2000's. In this class, students will listen to examples of music from various artists/groups from the various time periods. In particular, considerable time is spent on music of the 1980's, 1990's, and 2000's. Students should be prepared to take notes and keep a notebook for the class. In addition to quizzes/tests, students may be required to prepare an oral group presentation and an individual project.

5715 American Musical Theatre 1

Grade 10-12 .50 credit

The majority of the class work will be the study of 20th Century musical plays and musical comedies, and the interaction of plot, dialogue, and character as they serve as the framework for songs, dances, routines, and humorous episodes. Students willstudy excerpts from land mark musicals from the 1920's to the 1960's, as well as present day excerpts during their 'Clip of the Day.' Students will study famous composers, producers, librettists, choreographers, singers, dancers, and actors who were a part of this century's most successful productions on and off-Broadway. In addition, students will be learning how the elements of costume design, stage set, and lighting contribute to the overall musical production. This class will also develop an understanding of performance and students will demonstrate through performance: basic acting and singing skills. Students will be expected to try all basic performance skills as a part of this course.

5716 American Musical Theatre 2

Grade 10-12 .50 credit

Grade 9-12

(Prerequisite: Completion of American Musical Theatre 1 with a passing grade)

This class is an extension of American Musical Theatre I. The majority of the class work will be the continuation of study of 20th Century musical plays and musical comedies, and the interaction of plot, dialogue and character as they serve as the framework for songs, dances, routines and humorous episodes. Students will study full-length productions as well as excerpts from landmark musicals from the 1960's to present, including film adaptations of Broadway musical stage plays, as well as present day excerpts during their 'Clip of the Day.' Students will study famous composers, producers, librettists, choreographers, singers, dancers, and actors who were a part of this century's most successful productions on and off-Broadway. In addition, students will be learning how the elements of costume design, stage set, and lighting contribute to the overall musical production. This class will also develop an understanding of performance and students will demonstrate through performance: basic acting and dancing skills. Students will be expected to try all basic performance skills as a part of this course.

5720 Voice Class 1 *Grade 10-12* .50 credit

This semester course was created to foster good vocal health and technique. Goals of the course are as follows: to improve technique, quality, and artistry of individual voices; and to focus class attention on common vocal problems and their remediation. Students will study three different genres of music including folk, classical, and musical theatre to perform in this class. In addition to performance, students will take an in-depth look at famous musicians from the 20th Century including the genres of folk, classical, and musical theatre. This course is performance based and all students are required to sing.

5112 Voice 2 *Grade 9-12* .50 credit

This semester course was created to expand upon student understanding of vocal health and technique. Goals of the course are as follows: expand upon student vocal technique, quality of overall performance, and artistry of individual voices; and to focus class attention on perfecting a vocal performance. Students will expand their repertoire of performance pieces and knowledge of vocalist.

5721 Guitar *Grade 10-12* .50 credit

This semester course was created to encourage nontraditional instrumental students to pursue music study. This course also fulfills the art/music/fcs component of the graduation requirements at Jersey Shore High School. In this class we will discuss techniques and topics including chords, scales, notation, strumming, and fingerpicking. Students may be required to practice on their own, take written quizzes/tests, and perform both alone and as a class.

5107 Keyboard 1

This semester course was created to encourage nontraditional instrumental students to pursue music study. In this class we will learn technique, theory, performance, and improve sight reading skills. A variety of musical genres will be used during this course. The pace of the course will vary by student, based on ability and prerequisite knowledge. Students may be required to practice on their own, take written quizzes/tests, and perform both alone and as a class.

.50 credit

Keyboard 2 *Grade 9-12* .50 credit

(Prerequisite: Completion of Keyboard 1 with a passing grade)

This semester course was created to encourage nontraditional instrumental students to pursue music study. In this class we will learn technique, theory, performance, and improve sight reading skills. A variety of musical genres will be used during this course. The pace of the course will vary by student, based on ability and prerequisite knowledge. Students may be required to practice on their own, take written quizzes/tests, and perform both alone and as a class. Keyboard II will build on topics and foundational skills learned in Keyboard I.

Physical Education/Health

8000 Physical Education

Grade 9-12 .50 credit

The physical education program will provide a wide variety of activities to meet the mental, physical, social, and emotional needs, as well as the interests and abilities, of all students. The activities are designed to develop interpersonal skills, positive attitudes, a desire to participate, physical fitness, and an appreciation of lifetime and individual sports. The activities are offered to each student in a co-educational, modified elective program. Students will have the opportunity to develop proficiency inmovement forms. This proficiency involves the ability to demonstrate a degree of consistency and skillfulness in the execution of basic as well as advanced skills in offered activities.

Included in the program is a wide variety of activities, such as, basic swimming, disc golf, soccer, pickle ball, volleyball, softball, basketball, badminton, recreational games, square dancing, aerobics, yoga, floor hockey, aquatic fitness, fitness walking, lacrosse, and kayaking, canoeing, snorkeling and a variety of aquatic games. The students will have use of the "fitness center" which includes: cardio equipment, hammer strength training, and a variety of circuit training will be available to all students. Furthermore all ninth grade students and "new" students to the district will be certified in the technique, safety, care, handling of equipment and procedures of the fitness center.

8049 Health & Wellness

Grade 9 (Required) .50 credit

This course is based off of the Pennsylvania State Standards for Health, Physical Education, Safety, Recreation, and Dance, as well as, the National Health Education Standards. The goals of this course are to introduce and explain the concept of wellness; provide current information on health issues; assist the student in developing a balanced lifestyle through understanding of the inter-relatedness of the physical, mental and emotional realms in making a healthy individual; provide an opportunity for students to examine and evaluate their personal relationships; and provide opportunities for the development of decision-making and critical-thinking skills.

0046/8114 Health Occupations

Grade 9 .50 credit

The Health Occupations course will enable students to engage in a more thorough understanding of the various occupations available in the Health field. Students will be provided information on: job descriptions, job responsibilities, including the negative and positive aspects of the jobs, training and educational requirements, salary/benefits, working environments, advancement opportunities, job security and retirement incentives through instruction, research and personal experiences with guest speakers. The course is an excellent way for students to become better prepared for making career decisions in Health related fields.

8115 Safety Concepts & First Aid (Health Elective)

Grade 10-12 .50 credit

In this course, students will examine fundamental attitudes, knowledge and skills to prepare for further study in career pathways in health, recreation, and community services. Concepts related to the field of health and wellness, health care, basic principles of anatomy, physiology and disease, medical terminology, organ and tissue donation, patient care, and basic safety and reporting protocols for providing care to individuals. Students will also obtain First Aid/CPR/AED certification upon passing skills and written exams with a minimum of 80%.

High School Nutrition

Grade 11-12 .50 credit

This course aims to provide students with a comprehensive understanding of nutrition, emphasizing its role in maintaining overall health and well-being. Students will explore various aspects of nutrition, including the science of nutrients, dietary guidelines, meal planning, and the impact of nutrition on health.

Strength and Conditioning and Lifelong Fitness

Grade 11-12 .50 credit

Course Overview: This course on Strength and Conditioning and Lifelong Fitness provides students with a well-rounded education on physical fitness, emphasizing the importance of health, safety, and long-term well-being. It covers various aspects of strength training, cardiovascular conditioning, nutrition, flexibility, and more while encouraging students to develop a lifelong commitment to fitness.

Science

Students are required to earn a minimum of three (3) Science credits and score proficient or advanced on the Keystone Biology Exam to meet graduation requirements. Students who do not pass the Keystone Exam after the full year biology course, may be required to take the Keystone Biology Remediation course the following school year and will take the Keystone Biology Exam a second time.

Upon completion of 8th grade, students must choose a 442 pathway for the high school. A score of Advanced on the Keystone Algebra exam in 8th grade and a recommendation is a prerequisite for the Honors Pathway.

Career Pathway-Science

(Workforce, technical or 2 year associates degree pathway)

3122 Earth and Space Science

Grade 9 .50 credit

This course will provide students with an understanding and knowledge of the Earth and the Earth's place in the Universe. The following topics will be covered: Astronomy- the Earth in the Universe, Meteorology-the atmosphere of the Earth, and Geology-the solid part of the Earth. The students will develop proficiency in basic laboratory process skills such as measurement, data collection, organization, analysis, and forming conclusions.

3212 Introduction to Environmental Science

Grade 9 .50 credit

Introductory environmental course that introduces students to the concepts and principles of environmental science. Including agricultural and environmental systems and resources, environmental literacy skills, and sustainability and stewardship outlined in the PA STEELS environmental literacy standards.

3220 Biology / REQUIRED Course

Grade 10 1.0 credit

Biology is the Keystone science trigger course for the high school. A score of proficient or above must be earned on the Keystone Biology Exam in order to meet graduation requirements. The biology course has been designed to enhance student understanding of the structure and function of all living things, the student's place in this community of life and to provide each student the tools required to be successful on the Keystone Biology exam. Topics include: the cell, cell division, the cell's role in the establishment and maintenance of homeostasis, bioenergetics, ecology, genetics, and evolution.

3480 Chemistry

Grade 11-12 1.0 credit

(Prerequisite: Biology. Prerequisite or concurrent: Algebra 1)

This Chemistry course is intended to introduce the high school student to chemical science. Topics studied include: measurement, matter and energy, atomic structure, the periodic table, and chemical bonding, chemical reactions, the mole, stoichiometric relationships, and solutions and concentration. The approach in the course emphasizes conceptual understanding and mastery of key concepts. The pace of the course is slower and the emphasis is less on mathematical problem solving than in the honorschemistry course. Hands-on laboratory work is an important component of the course. **This course is intended for students who are entering the workforce or a 2 year degree program after high school.** Students planning to attend a four-year college after high school should take CHM 100 – Fundamentals of Chemistry.

3531 Physics *Grade 11-12* 1.0 credit

(Prerequisite: Algebra 1)

Physics is a course that enables students to discover how things work. Physics is all around us and we investigate force, work, and rate in mechanical, fluid, electrical, and thermal systems. Experiments and projects are integral parts of the class. Common objects and applications are stressed and discussed in their relation to force, work, and rates. The student will also investigate resistance, energy, power, and force transformers within the mechanical, fluid, electrical, and thermal systems. Investigating drag, ohm's law, and measuring the resistance of thermal insulation are just a few examples of experiments that are done in the resistance unit. Power and force transformers units include reading watt-hour meters and working with simple machines. This course should be considered by students planning on entering the workforce, or pursuing an Associate's Degree after high school or students planning on a four year degree in a non-science field. Students planning on attending a four year college program in a science, engineering, medical or technology related program should consider Honors Physics. This course is not an option if you have passed Honors Physics.

Grade 12

The electives listed at the end of the science section are available for all pathways in grade 12. Electives may be scheduled on a case by case basis depending upon the student pathway, grade level and prerequisites necessary.

Academic Pathway-Science

(2 year associates or 4 year college degree pathway)

3122 Earth and Space Science

Grade 9 .50 credit

.50 credit

This course will provide students with an understanding and knowledge of the Earth and the Earth's place in the Universe. The following topics will be covered: Astronomy- the Earth in the Universe, Meteorology-the atmosphere of the Earth, and Geology-the solid part of the Earth. The students will develop proficiency in basic laboratory process skills such as measurement, data collection, organization, analysis, and forming conclusions.

3212 Introduction to Environmental Science Grade 9

Introductory environmental course that introduces students to the concepts and principles of environmental science. Including agricultural and environmental systems and resources, environmental literacy skills, and sustainability and stewardship outlined in the PA STEELS environmental literacy standards.

3220 Biology / REQUIRED Course

Grade 10 1.0 credit

Biology is the Keystone science trigger course for the high school. A score of proficient or above must be earned on the Keystone Biology Exam in order to meet graduation requirements. The biology course has been designed to enhance student understanding of the structure and function of all living things, the student's place in this community of life and to provide each student the tools required to be successful on the Keystone Biology exam. Topics include: the cell, cell division, the cell's role in the establishment and maintenance of homeostasis, bioenergetics, ecology, genetics, and evolution.

♦♦ 3500 (CHM100)

Fundamentals of Chemistry

Grade 11-12

1.00 credits 4.00 college credits

(Prerequisite: Must have passed Algebra 1 with a 76% or higher. This course CAN be taken after passing Chemistry, but a prior Chemistry course is not a prerequisite)

This course is weighted 1.1

Basic principles of chemistry and its practice in laboratory. Emphasis on the underlying structure of matter (atoms, ions, molecules) and how structure determines properties. Designed to teach chemistry terminology and symbols, as well as to develop analytical and critical thinking skills. This course is intended for students planning to attend Penn College as a non-science major. Future Penn College students can complete a required science course for their degree program by completion of this course. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam. With successful completion, students will receive 4 credits for the CHM100 course through Pennsylvania College of Technology.

3530 Honors Physics

Grade 11-12

1.0 credit

Prerequisite: Algebra 2 with at least 86% average

Honors Physics is an academic course dealing with the relation between matter and energy, beginning with measurement and continuing with force and motion, vectors, momentum, work energy and power, wave transfer of energy, light and optics, direct current electricity, circuits, magnetic applications of electric and magnetic fields, and nuclear energy. High emphasis is placed on laboratory work and problem solving. Honors Physics is *STRONGLY* recommended for students planning on pursuing a four-year degree in an engineering, medical, technology, or science field.

Grade 12

The electives listed at the end of the science section are available for all pathways in grade 12. Electives may be scheduled on a case-by-case basis depending upon the student pathway, grade level and prerequisites.

3222 Keystone Biology Remediation

Grade 10 or 11 (0.5 credit)

This course will target and reinforce basic information specifically related to the student performance on the Keystone Biology Exam. Students will complete assignments related to and correlated to each unit of study identified by the Keystone Anchors addressed in the Keystone Exam. Students will learn studying and test-taking strategies designed to assist them in attaining proficiency on the Keystone Exam.

Honors Pathway-Science

(4 year college degree pathway)

3219 Biology 9 / REQUIRED Course

Grade 9

1.0 credit

Prerequisite: Recommended proficient on PSSA Reading Exam and must have a teacher recommendation.

Biology is the Keystone science trigger course for the high school. A score of proficient or above must be earned on the Keystone Biology Exam in order to meet graduation requirements. The biology course has been designed to enhance student understanding of the structure and function of all living things, the student's place in this community of life and to provide each student the tools required to be successful on the Keystone Biology exam. Topics include: the cell, cell division, the cell's role in the establishment and maintenance of homeostasis, bioenergetics, ecology, genetics, and evolution.

♦♦ 3500 CHM 100

Fundamentals of Chemistry

1.50 credits

Grade 10-11 4.00 college

credits

Prerequisite: Must have passed the Keystone Algebra Exam and take the Penn College Placement Exam This course CAN be taken after passing Chemistry, but a prior Chemistry course is not a prerequisite

This course is weighted 1.1

Basic principles of chemistry and its practice in laboratory. Emphasis on the underlying structure of matter (atoms, ions, molecules) and how structure determines properties. Designed to teach chemistry terminology and symbols, as well as to develop analytical and critical thinking skills. This course is intended for students planning to attend Penn College as a non-science major. Future Penn College students can complete a required science course for their degree program by completion of this course. Students who enroll in this course with the intent to receive college credit must pass the Penn College Placement exam. With successful completion, students will receive 4 credits for the CHM100 course through Pennsylvania College of Technology.

3530 Honors Physics

Grade 10-11 1.0 credit

(Prerequisite: Algebra 2 with at least 86% average)

Honors Physics is an academic course dealing with the relation between matter and energy, beginning with measurement and continuing with force and motion, vectors, momentum, work energy and power, wave transfer of energy, light and optics, direct current electricity, circuits, magnetic applications of electric and magnetic fields, and nuclear energy. High emphasis is placed on laboratory work and problem solving. Honors Physics is **STRONGLY** recommended for students planning to pursue a four-year degree in an engineering, medical, technology, or science field.

3471 Advanced Placement (A.P.) Chemistry

Grade 11-12 2.0 credits

This course is weighted 1.1

(Prerequisite - Must have a 90 or above average in both CHM 100 and in Algebra II)

Advanced placement chemistry is a college level course designed to prepare a high school student for higher education in science or a medical field. The A.P. Chemistry course is designed as an equivalent to a college level general chemistry class. The goal of the course is to prepare students to successfully complete the College Board's Advanced Placement Test in Chemistry. Passing the A.P. Chemistry test will enable students to take second year chemistry courses in their college freshman year or exempt them from science as a general elective. Students enrolling in AP Chemistry must have achieved a 90 average in Honors Chemistry and in Algebra II. The topics covered are those required by the College Board for the course and include: Structure of matter, states of matter, reactions, periodic trends, intro to organic chemistry, and laboratory techniques.

3401 Advanced Placement Environmental Science

Grade 11-12 1.0 credits

(Prerequisites – Biology Prerequisite or concurrent with Honors Chemistry or Honors Physics with course grades of 90 or above.) This course is weighted 1.1

The Advanced Placement Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The goal of the course is to prepare students to successfully complete the College Board's Advanced Placement Test in Environmental Science.

Science - Electives

The following electives are available for all pathways in grade 12. Electives may be scheduled on a case by case basis depending upon the student pathway, grade level and prerequisites necessary.

3481 Analytical Chemistry

Grade 12 .50 credit

Analytical chemistry is a course intended for those interested in going into engineering, crime scene investigation (CSI), or other chemistry-related field. The application of the class can also be used for those interested in going into medical research. The course includes the theory and applications of analytical chemistry including: Laboratory emphasis on obtaining and interpreting quantitative data, Statistical data analysis, equilibrium expressions, pH, volumetric and gravimetric analysis, fundamentals of spectroscopy, and analytical separations. Laboratory experiments include acid-base behavior, spectroscopy (UV-visible and atomic absorption), and chromatography.

3420 Organic Chemistry

Grade 12 .50 credit

(Prerequisites- A course grade of a B+ or higher in CHM 100.) (Can be taken concurrently with AP Chem).

Organic chemistry is a sub discipline of chemistry that is prevalent in every person's life. Organic chemistry is the study of carbon containing compounds and their uses, reactions, functions, and application to life. The use of math in organic chemistry is very limited due to the nature of study and is very different from general chemistry. The student will study organic compounds, functional groups, basic organic reactions, synthesis pathways, and proper organic laboratory techniques. This course is designed for any student interested in any field of study involving chemistry, biology, certain engineering fields, or the medical field.

♦♦3555 Human Anatomy and Physiology Survey (BIO 103)

Grade 11-12 1.00 credits 3.00 college Credits

Prerequisite: Passing grade in Biology and Chemistry and/or proficient score on Biology Keystone Exam

This course is weighted 1.1

Overview of human anatomy and physiology. Emphasis on the relationships between the structures and functions in each body system as well as the interrelationships among all body systems in the maintenance of homeostasis. Laboratory work complements and reinforces lecture materials. Qualifying score on math placement exam required. Recommended corequisite: ENL111.

3400 Environmental Science

Grade 11-12 .50 credit

Prerequisite: Successful completion of Biology & Algebra

Environmental Science emphasizes global environmental concepts as they relate to local issues. Students will perform case study analysis, problem-solving, project creation and development, computer and internet use, oral reports/discussions, laboratory measurement, data collection and analysis, along with other activities utilized to promote student-centered learning.

3410 Astronomy

Grade 11-12 .50 credit

A survey of modern astronomy introducing topics from our solar system and other planetary systems, galaxies, the evolution of stars, and the methods and technology used to explore planetary and stellar processes. Included with this course is a lab that introduces the student to astronomical observations with the use of a series of telescopes and lab exercises.

3330 Genetics and Microbiology

Grade 11-12 1.0 credit

(Prerequisite: Successful completion of Biology)

Genetics requires a more detailed examination of the subject and will emphasize problem solving, decision-making, critical thinking, applied learning, and knowledge. The topics covered in this course will range from Mendelian genetics to current genetics technologies and discoveries as well as their practical and ethical implications. Microbiology is a course with a major focus on the role of microorganisms such as bacteria and viruses in diseases. Other topics included in this course are some of the positive roles of microorganisms in areas such as food production, ecology and future technology. Laboratory work is stressed. This course will help prepare you to continue your Science education at the college level to prepare for careers in medical and health related fields.

Social Studies

The high school social studies program is designed to impart critical and analytical thinking skills to all students. As students explore history and are introduced to disciplines within the social sciences, they will also refine their written and oral communication skills. All students are expected to read assignments critically and participate actively in class discussions and activities.

PA School Code requires all students to be enrolled in the following history courses during their high school career:

- United States History
- World History
- American Government

Career Pathway-Social Studies

(Workforce, technical or 2 year associates degree pathway)

1123 United States History

Grade 9

1.0 credit

This course is designed to give career pathway students a broad background in the social, political, and economic development of the United States from 1815 to the present. Topics include, but are not limited to, westward expansion, and causes of the Civil War, Reconstruction, the Gilded Age, Populism, Progressivism, American Expansionism, New Deal Liberalism, World Wars I and II, the Cold War, the Civil Rights Movement, the Vietnam War, 1960's Liberalism, and Neo-Conservatism.

1320 World History

Grade 10

1.0 credit

This introductory course records the contributions of individuals as it chronicles the development of world societies from the Renaissance to the present. Students will examine the conflict and cooperation between societies as they analyze political and social systems, economic and technological advances, world religions, cultural diffusion, and globalization. Special emphasis will be placed on the way geography has impacted human development. Considerable attention will also be given to developing historical thinking and communication skills.

1420 American Government

Grade 11-12 .50 credit

The purpose of the course American Government is to help students gain an understanding of how our nation's government is organized and operates. Students will also learn about the rights and responsibilities of the citizen in government. Students will be exposed to the process by which public policy is shaped in order to prepare them to make informed, discriminating judgments on questions that will affect the future of the nation and the world.

Elective Choice Grade 11-12 .50 credit

Students are required to take one additional semester-length social studies course for graduation. Eligible choices are available in the electives portion.

Academic Pathway-Social Studies

(2 year associates or 4 year college degree pathway)

1120 United States History 1

Grade 9

1.0 credit

This course is designed to give all students a broad background in the social, political, and economic development of the United States from the French and Indian War to the end of the Reconstruction era. Topics include, but are not limited to, the American Revolution, formation of a republican form of government, the birth of political parties, westward expansion, and causes of the Civil War. United States geography will also be an integral part of the course.

1220 United States History 2

Grade 10

1.0 credit

This is a chronological survey of the major political, economic, and social developments in United States history since the Civil War. Topics will include, but are not limited to Reconstruction, the Gilded Age, Populism, Progressivism, American Expansionism, New Deal Liberalism, World Wars I and II, the Cold War, the Civil Rights Movement, the Vietnam War, 1960's Liberalism, and Neo-Conservatism. As students learn about our nation's history, they will have the opportunity to improve their historical thinking and communication skills.

1320 World History

Grade 11

1.0 credit

This introductory course records the contributions of individuals as it chronicles the development of world societies from the Renaissance to the present. Students will examine the conflict and cooperation between societies as they analyze political and social systems, economic and technological advances, world religions, cultural diffusion, and globalization. Special emphasis will be placed on the way geography has impacted human development. Considerable attention will also be given to developing historical thinking and communication skills.

1420 American Government

Grade 12 .50

.50 credit

The purpose of the course American Government is to help students gain an understanding of how our nation's government is organized and operates. Students will also learn about the rights and responsibilities of the citizen in government. Students will be exposed to the process by which public policy is shaped in order to prepare them to make informed, discriminating judgments on questions that will affect the future of the nation and the world.

Elective Choice Grade 11-12 .50 credit

Students are required to take one additional semester-length social studies course for graduation. Eligible choices are available in the electives portion.

Honors Pathway-Social Studies

(4 year college degree pathway)

1130 19th Century History Honors

Grade 9 1.0 credit

This college preparatory course will help students develop critical thinking and writing skills that they will use throughout high school and college. It will help students learn to think historically as they compare economic, political, intellectual, and social developments in Europe and the United States from the Seven Years' War to the end of the nineteenth century. Topics include, but are not limited to, the Enlightenment, American Revolution, French Revolution and Napoleon, Early American Republic, Jacksonian Democracy, the American Civil War, and European Imperialism. Students will be expected to read and write about challenging primary and secondary source materials. Since this course is also designed to prepare students for future Advanced Placement (AP) coursework in European and United States history, special emphasis will be placed on the critical thinking skills needed to complete the multiple choice and free response portions of the AP exam as well as methods to analyze primary documents.

1230 20th Century History Honors

Grade 10 1.0 credit

This introductory course is designed to prepare advanced history students for future Advanced Placement (AP) coursework in European and American history. This course will help students learn to think historically as they compare economic, political, intellectual, and social developments in Europe and the United States from end of the nineteenth century until the turn of the twenty-first century. Emphasis will be placed on how liberalism, conservatism, and radicalism evolved in Europe and the United States throughout the twentieth century. Topics include, but are not limited to, American and European Imperialism, Populism, Progressivism, World War I, the Russian Revolution, the Great Depression, the Rise of Fascism, New Deal Liberalism, World War II, the Cold War, McCarthyism, the Civil Rights Movement, the Vietnam War, and the Reagan Revolution. Students will be expected to read and write about challenging primary and secondary source materials. Special emphasis will be placed on learning how to write Document-Based Questions (DBQs) for the AP exam. Considerable attention will also be given to the development of the critical thinking and communication skills necessary for success on the multiple choice and free response portions of the AP exam.

1450 Advanced Placement United States History

Grade 11 1.0 credit

This course is weighted 1.1

Advanced Placement United States History is a challenging course designed to be the equivalent of a college or university level United States history survey course. The course examines the political, social, economic, intellectual, and cultural history of the United States from colonial times to the present. Students should possess strong reading and writing skills and be willing to devote substantial time to the completion of class assignments. Emphasis is placed on analytical writing, class discussion, primary source interpretation, and critical reading of secondary sources. Students who enroll in this course will be expected to read and write at the college level. They must be prepared to dedicate substantial time outside of the normal school day to the study of history and need to be committed to taking the Advanced Placement history exam offered in early May each year.

1350 European History – Advanced Placement

Grade 12

1.0 credit

This course is weighted 1.1

Advanced Placement European History is a challenging course designed to be the equivalent of a college or university level Western Civilization survey course. The course examines the political, social, economic, intellectual, and cultural history of Europe from the Renaissance to the 21st Century. Students should possess strong reading and writing skills and be willing to devote substantial time to the completion of class assignments. Emphasis is placed on analytical writing, class discussion, primary source interpretation, and critical reading of secondary sources. Students who enroll in this course will be expected to read and write at the college level. They must be prepared to dedicate substantial time outside of the normal school day to the study of history and need to be committed to taking the Advanced Placement history exam offered in early May each year.

Social Studies - Electives

The following elective is available for all pathways. It may be scheduled on a case by case basis depending upon the student pathway, grade level and prerequisites necessary.

1421 Economics *Grade 11-12* .50 credit

The study of economics will introduce students to the foundations and operations of the American free enterprise system and acquaint the students with other economic systems in the world. The theory of the market economy and the modifications that have been made to it will also be studied. Students will examine domestic and international challenges to the economy of the United States and analyze complex global economic issues. By providing the students with economic knowledge and critical thinking skills, this course ensures that each student will be prepared to participate actively and intelligently in civic issues.

1520 Crime and the Law

Grade 11-12 .50 credit

The purpose of this elective course is to give students a basic understanding of our criminal and legal systems. Topics included, but are not limited to, the history of our legal system, the courts, causes of crime, and entire criminal justice system. The focus of the course is on criminal law with students actively participating in two mock trials and one mock crime scene investigation.

1530 Introduction to Psychology

Grade 11-12 .50 credit

Psychology is the study of mental processes, and how the mind and body work together. The content of this course includes, but is not limited to, the history of psychology, research, statistics, personal and social development, cognitive and emotional development, sensation and perception, sleep and dreams, conditioning, motivation, disorders and forms of therapy.

AP Seminar Grade 11-12 1 Credit

AP Seminar provides students with a rare opportunity to engage in interdisciplinary conversations that explore the complexities of academic and real-world topics from multiple perspectives. Students will learn to synthesize information from multiple sources and develop their own authorial voice in written essays. Students will also apply scholarly research skills to evaluate information and craft evidence-based arguments in cross-curricular contexts.