

# OIL CITY SENIOR HIGH SCHOOL

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## 2020 - 2021 COURSE DESCRIPTIONS GUIDE

CEEB: 393-083

### ENGLISH

**ACADEMIC ENGLISH LITERATURE I-A - (Grade 9)** - The emphasis for this course will be reading both fiction and non-fiction for meaning. In addition, students will improve their skills in analyzing and interpreting both fiction and non-fiction. This course will prepare students for the Literature Keystone Exam at the end of tenth grade. **PREREQUISITE: Teacher recommendation and GPA of 80% or higher.**

**ENGLISH LITERATURE I-A – (Grade 9)** - The emphasis for this course will be reading both fiction and non-fiction for meaning. In addition, students will improve their skills in analyzing and interpreting both fiction and non-fiction. This course will prepare students for the Literature Keystone Exam at the end of tenth grade.

**ACADEMIC ENGLISH LITERATURE I-B - (Grade 10)** - This course is an on-going examination of reading for meaning and analyzing /interpreting both fiction and non-fiction. **Students will take the Literature Keystone Exam at the end of this course.**  
**PREREQUISITE: Teacher recommendation and GPA of 80% or higher.**

**ENGLISH LITERATURE I-B - (Grade 10)** - This course is an on-going examination of reading for meaning and analyzing /interpreting both fiction and non-fiction. **Students will take the Literature Keystone Exam at the end of this course.**

**ENGLISH III – (Grade 11)** – This course is for students who may seek a post-high school education. Emphasis is on practical application of reading, writing, speaking and listening skills.

**ACCELERATED ENGLISH LITERATURE - (Grades 9 - 11) - (Academic)** - Students should wish to meet challenges *beyond* the requirements of Academic English, as well as complete summer reading and assignments. This course is intended to prepare students for the Advanced Placement English exam given during their senior year. **Tenth grade students will take the Literature Keystone Exam at the end of this course. PREREQUISITE for ACCELERATED ENGLISH LITERATURE: Grade 9- PVAAS Projection of Proficient or Advanced for Literature Keystone Exam. New Students - Teacher recommendation based on completion of writing portfolio and GPA of 90% or higher in 8<sup>th</sup> grade English. To continue program (Grade 10-11) - teacher recommendation and GPA of 90% in English each year, as well as a score of Proficient or Advanced on Literature Keystone Exam.**

**AP ENGLISH - (Grade 12) - (Academic)** - Students must be prepared to take on additional reading and writing assignments (as well as summer reading and assignments) normally offered at the college level. The schedule includes English Literature and Composition. (*Students are required to take the AP Exam at the end of their senior year*). The cost of the exam is approximately \$83.00 per student – ½ paid by the school district and the remaining ½ paid by the student. Fee waivers are available for any student who receives free or reduced lunches. **PREREQUISITE: Teacher recommendation and GPA of 90% or higher in Accelerated English III, as well as a score of Proficient or Advanced on Literature Keystone Exam.**

**ACADEMIC ENGLISH LITERATURE - (Grades 10-11)** - Academic English may be elected by students planning to go to college after graduation from high school. Emphasis is on increased skill in reading intensively and extensively in literature and in improving writing skills. Academic English Literature classes will involve extensive narrative, persuasive, and informational writing. **Tenth grade students will take the Literature Keystone Exam at the end of this course. PREREQUISITE: Grade 10- Teacher recommendation, GPA of 80% or higher in English. Grade 11 - Student must have scored Proficient or Advanced on Literature Keystone Exam.**

**ACADEMIC English IV - (Grade 12)** - Academic English IV may be elected by students planning to go to college after graduation from high school. Emphasis is on increased skill in reading intensively and extensively in literature and in improving writing skills. Academic English IV classes will involve extensive narrative, persuasive, and informational writing. ***This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee (CHS ENGL 0110).*** **PREREQUISITE: Teacher recommendation, GPA of 80% or higher in English, and student must have scored Proficient or Advanced on Literature Keystone Exam (grades 10-11).**

**ENGLISH IV – (Grade 12)** – This course is for students who may seek a post-high school education. Emphasis is on practical application of reading, writing, speaking and listening skills.

**SPEECH/DRAMA - (Grades 10 - 12)** - This course combines the basics of speech and drama. Solo and group speaking skills are addressed. Evaluation is based primarily on *in-class speaking* situations. Drama introduces the history of theater and the basic concepts of *acting, directing, stage movement, and technical work.* **Semester course (½ credit)**

**CREATIVE WRITING - (Grades 10 – 12)** – Students will write in a variety of forms: poetry, the short story, and plays. Evaluation will be based upon the student's producing approximately *one finished work each week*. **Fall & Spring Semester courses (½ credit)**

**JOURNALISM I - (Grades 9 - 12)** - The philosophy of language, the psychology of advertising, the history of journalism, the laws regarding newspaper publication, and the role of print media in society will be covered. Extensive focus will also be placed on visual journalism, including student projects involving computer and video presentations. This is not an elective for those who are **unwilling** to write, rewrite, and rewrite again. Students will also be responsible for assisting with the school newspaper.  
**Semester course (½ credit)**

**JOURNALISM II - (Grades 10 - 12)** – This is for students who have successfully completed Journalism I and wish to continue their study of written and visual journalism. Journalism II offers the opportunity to explore more complex topics in writing and visual reporting. This is not an elective for those who are unwilling to write, rewrite, and rewrite again. Students will also be responsible for assisting with the school newspaper. This course may be offered at the same time as Journalism I. **Semester course (½ credit)**  
**PREREQUISITE: Successful completion of Journalism I and Teacher recommendation**

**NEWSPAPER – (Grades 9 - 12)** – This year-long course will focus on the publishing of the school's newspaper. Students will take a leading role in designing, writing, and editing the publication. Students will be expected to draft and rewrite several articles and assist in the layout for each edition of the paper. Students who have taken Journalism along with new students are encouraged to enroll. **Class size is limited and students must be recommended by the newspaper advisor. First time students must have teacher recommendation.**

**NEWSPAPER LEADERSHIP I, II, III – (Grades 10 & 12)** - This year-long course is intended for students who have successfully completed the Newspaper course. This class will be offered at the same time as the Newspaper class. Students in the Newspaper Leadership class will take an active role in leading the development of the newspaper. Class size is limited and students must be recommended. Class may be taken multiple years. **PREREQUISITE: Teacher recommendation**

**MEDIA STUDIES I- (Grades 10 - 12)** – Students will examine film, print sources, internet sources, and television to analyze how the public is shaped by the information it receives. Students will be expected to do a high volume of writing and class discussion to share ideas and research information related to a variety of topics. Students will have the chance to write, film, and produce creative and documentary projects. **Semester course (1/2 credit)**

**MEDIA STUDIES II - (Grades 10 - 12)** – Students who have shown interest in the topics explored in Media Studies I may elect to take this second course. Students will extensively focus on the production of media for narrative, entertainment, and persuasive purposes. This course may be offered at the same time as Media Studies. **Semester course (½ credit) PREREQUISITE: Successful completion of Media Studies I and Teacher recommendation**

**YEARBOOK (OIL CAN) I, II, III - (Grades 10 – 12)** - This is a one-credit course with the main purpose to produce a finished yearbook by the end of the school year. Topics will include copyrighting, cropping, headlines, and layout designs. Course may be taken multiple times. **PREREQUISITE: Class size is limited and students must be recommended by the Yearbook Advisor.**

**MENTORING PROGRAM - (11 & 12)** – This is for outstanding juniors and seniors willing to devote their talents to assisting 9th graders transition to senior high. Class is student directed, meaning seniors will plan and execute activities for the class. Working in small groups, juniors and seniors will increase their leadership skills, while Freshmen will improve their interpersonal, communication and coping skills. Students can opt to take this class for a full year or a half year. **Because students are expected to be outstanding role models, recommendations are required from the Mentor Teacher. Full year (1 credit) or Half year (1/2 credit)**

Comparison Table of:	Accelerated/AP English	Academic English
<b>Prerequisite for Scheduling</b>	Students must earn an A average each year to remain in Accelerated/AP English.	Must have a grade of 80% and teacher recommendation of previous English class.
<b>Summer Reading</b>	Students usually read 2 books and complete multiple writing assignments throughout the summer.	None
<b>Curriculum</b>	The College Board determines the class syllabus. The course: <ul style="list-style-type: none"> <li>Provides intellectual challenges and workload</li> </ul>	PITT-Bradford reviews and approves class syllabus. The following items were covered during the past year. <ul style="list-style-type: none"> <li>Analysis of literature</li> </ul>

	<p>consistent with a typical undergraduate university English literature course</p> <ul style="list-style-type: none"> <li>• Requires intensive study of representative works from various genres, periods, and cultures, concentrating on works of recognized literary merit</li> <li>• Focuses on a literary work's structure, style, and themes, as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone</li> <li>• Requires critical analysis of literature and includes expository, analytical, and argumentative essay composition</li> <li>• Includes timed writing essays scored using the 1-9 AP rubric.</li> <li>• Includes a 5 - 7 page research paper on an author of classic literature</li> </ul>	<ul style="list-style-type: none"> <li>• College-level essay practice and assessment</li> <li>• Analysis of excerpts and full length works of British Literature, contemporary essays, stories, plays</li> </ul> <p>Partial List of Excerpts/Full Texts:  <i>They Say, I Day, Beowulf, The Canterbury Tales, Hamlet, Strength in What Remains, Modest Proposal, Things Fall Apart, Heart of Darkness, Kite Runner, Frankenstein, Jane Eyre, 1984, Pride and Prejudice, Rime of the Ancient Mariner</i></p> <ul style="list-style-type: none"> <li>• Research</li> <li>• Presentations</li> </ul>
<b>Exam</b>	<p>AP exam through the College Board (given in early May)</p> <ul style="list-style-type: none"> <li>• 1 hour to answer approximately 55 multiple choice questions on prose and poetry passages</li> <li>• 2 hours to write 3 essays (1 on a prose passage, 1 on a poetry passage, and 1 on a novel or play of the student's choice)</li> </ul>	<p>Final exam given during English class.</p> <ul style="list-style-type: none"> <li>• Exam includes multiple choice, short answer, and two essays. The essay prompts are given before the exam day. Student brings completed essays to class on the day of the scheduled final.</li> </ul>
<b>College Credit</b>	<ul style="list-style-type: none"> <li>• Three college credits can be earned by scoring a 3, 4, or 5 on the College Board AP exam.</li> <li>• However, every college determines their own qualifying criteria and policies. (See <a href="https://apstudent.collegeboard.org/creditandplacement/search-credit-policies">https://apstudent.collegeboard.org/creditandplacement/search-credit-policies</a>)</li> </ul>	<ul style="list-style-type: none"> <li>• Three college credits are earned through passing the class with a 70% or above and passing the final.</li> <li>• Colleges may accept the transfer credits from PITT-Bradford. Check with your college of interest for confirmation.</li> </ul>
<b>Cost</b>	<p>The cost of the exam is \$93, but the school pays for half. The cost could change. Students who qualify for free and reduced lunches pay nothing.</p>	<p>The current cost of the college class is \$125 and is paid to PITT-Bradford. The cost could change.</p>
<b>Valedictorian/Salutatorian</b>	<p>Students who want to be considered</p>	<p>Not eligible</p>

	for valedictorian or salutatorian <b>must</b> take 4 years of Accelerated/AP English.	
<b>Weighted Grades</b>	1.1	1.05

### MATHEMATICS

**FRESHMAN ALGEBRA I & FRESHMAN ALGEBRA I-CT – (Grade 9)** - Emphasis is placed on how to perform algebraic processes and problem solving in coordination with the anchor document for the Keystone Exam. **This is a *freshman only* course. Students will take the Algebra Keystone Exam at the end of this course.**

**ALGEBRA II** - Algebra II is a moderately paced course covering the traditional topics of Algebra II. Emphasis is placed on how to perform algebraic processes, and problem solving, in conjunction with appropriate uses of technology. **PREREQUISITE: Geometry and teacher recommendation**

**ALGEBRA II/TRIGONOMETRY** - Algebra II/Trigonometry is an accelerated mathematics course which covers in one year the traditional topics of a full year of Algebra II and a semester of trigonometry. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.* **PREREQUISITE: 88% or better in Geometry and teacher recommendation**

**ALGEBRA III – (Grade 11 or 12 only)** - This course is designed to include the relevant topics in *college mathematics* (statistics, probability and trigonometry) **PREREQUISITE: Algebra II and teacher recommendation**

**DISCRETE MATHEMATICS - (Grade 12)** – This year-long course covers a combination of math topics. The topics are rich, diverse, and timely. Discrete mathematics includes mathematics of voting, voting systems, fair division, apportionment, Euler circuits and Hamilton circuits. Other topics include statistical data, probability and odds and the normal distribution. **PREREQUISITE: Algebra II (with teacher recommendation) or Algebra II/Trig or Algebra III.**

**PRE-CALCULUS** – Pre-Calculus is an accelerated mathematics course covering topics from pre-calculus and differential calculus. The primary goal of the course is to prepare the student to enter college level mathematic courses. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.* **PREREQUISITE: 88% or better in Algebra II/Trigonometry or Algebra III and teacher recommendation**

**CALCULUS** - Calculus is an accelerated high school mathematics course covering the topics in the advanced placement syllabus. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.* **PREREQUISITE: 88% or better in Pre-Calculus and teacher recommendation**

**GEOMETRY** - Geometry is an accelerated course. This course satisfies the academic course's mathematics requirement and emphasizes topics covered by current college entrance exams. **PREREQUISITE: 88% or better in Algebra I and teacher recommendation**

**PLANE GEOMETRY** - This course satisfies the academic course's mathematics required and emphasizes topics covered by current college entrance exams. **PREREQUISITE: Algebra I and teacher recommendation**

**CONSUMER MATH – (Grade 12 Only)** - This course covers a wide variety of topics including a PSSA review, gross income, net income, recordkeeping, checking accounts, savings accounts, cash purchases, charge accounts and credit cards, loans, vehicle transportation, housing costs, insurance, and investments. Emphasis is placed on concepts of consumer and career mathematics.

### SCIENCE

- \* Indicates classes which will meet for a double period, every other day.

- Students entering 9<sup>th</sup> grade must schedule **BIOLOGY I-A** or **ACADEMIC BIOLOGY I**.

**BIOLOGY I-A – (Grade 9) – (Comprehensive)** - This course will be the first part of 2 part course. Students will be introduced to graphing, metric systems, scientific method, characteristics of life, classification ecology, evolution, basic chemistry/properties of water, cells/plasma membrane, types of transport and types of solutions.

**\*BIOLOGY I-B/ Lab – (Grade 10) - (Comprehensive)** – This course will be the second part of a 2 part course. Students will be introduced to Biochemistry/Bioenergetics, Cell Cycle/Meiosis, DNA/Protein Synthesis/Chromosomes, and Basic Mendelian Genetics/Complex Inheritance. **Students will take the Biology Keystone Exam at the end of this course.**

**\*ACADEMIC BIOLOGY I/ Lab: - (Grade 9) – (Academic/ LAB)** Students will be introduced to graphing, metric systems, scientific method, characteristics of life, classification ecology, evolution, basic chemistry/properties of water, cells/plasma membrane, types of transport and types of solutions, Biochemistry/Bioenergetics, Cell Cycle/Meiosis, DNA/Protein Synthesis/Chromosomes, and Basic Mendelian Genetics/Complex Inheritance. **Students will take the Keystone Biology Exam at the end of this course.**  
**PREREQUISITE: PVAAS Projection of Proficient or Advanced for Biology Keystone Exam.**

**\*ACADEMIC BIOLOGY II - (Grades 11 - 12) - (Academic/LAB)** - The first half of this course begins with reviewing the characteristics of life. Cell structure and function, genetics, and molecular biology are the major topics covered in the first semester. There is a strong emphasis on biochemistry and biotechnology. The second half of this course focuses on structure and function of the human body. The relationship between cells, tissues, organs and organ systems is investigated, as well as mechanisms for maintaining homeostasis. Other areas of emphasis include: personal wellness, human disease & bioethical issues. This course is recommended for students interested in Biology related careers, especially if a career in medically repeated fields is being considered. Significant lab work will be required. **PREREQUISITE: B or better in Academic Biology and completion of one other science course. Teacher Recommendation.**

**\*ACADEMIC CHEMISTRY I - (Grades 10 - 12) - (Academic/LAB)** – This course involves the study of matter. Topics covered will include scientific measuring and calculating, classification of matter, atomic structure, the periodic table, periodic properties, typical elements and bonding. These concepts are coordinated with basic math skills, terminology, problems solving skills, and laboratory techniques and processes. Significant lab work will be required. **PREREQUISITE: C or better in Algebra I and Teacher Recommendation**

**\*ACADEMIC CHEMISTRY II - (Grades 11 & 12) - (Academic/LAB)** – This course is a continuation of concepts learned in Chemistry I. Topics covered will include: Chemical formula and names, the mole, chemical reactions, chemical bonding in depth, molecular structure and polar molecules. These concepts are coordinated with basic math skills, terminology, problems solving skills, and laboratory techniques and processes. This course is designed for students planning to enter chemistry related careers. Significant lab work will be required. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.*  
**PREREQUISITE: B or better in Chemistry I and Teacher Recommendation**

**\*ACADEMIC PHYSICS I – (Grades 10 - 12) - (Academic/LAB)** - Topics covered include; data presentation, motion in one dimension, vectors, Newton's laws of motion, work and energy, momentum, optics, sound, and curved motion. Significant lab work will be required. This course is highly recommended for those students pursuing a career in engineering, technology or the sciences.  
**PREREQUISITE: Grade C or better in previous academic sciences and Teacher Recommendation**

**\*ACADEMIC PHYSICS II - (Grades 11 - 12) - (Academic/LAB)** - Topics covered include: engineering and robotics; electrostatics, electrical potential capacitors, simple electrical circuits, magnetic fields, electromagnetic induction, electronic devices, and digital electronics. Significant lab work will be required. This course is highly recommended for those students pursuing a career in engineering, technology or the sciences. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.* **PREREQUISITE: B or better in Physics I and Teacher Recommendation**

**ACADEMIC ENVIRONMENTAL SCIENCE - (Grades 11 - 12)** - The goal of this course is to enhance student comprehension of the impact humans have on the planet, the consequences of our actions, and the role we all play in Society's future. We will explore ecology, atmosphere and pollution, terrestrial/land resources, energy and waste, water resources and a wide variety of other issues concerning the environment. Students should leave the course with strong investigative skills and an understanding of human activities related to basic processes of an ecosystem. **Prerequisite: Pass the Biology Keystone Exam**

**ACADEMIC EARTH & SPACE SCIENCE - (Grades 10 - 12) (Comprehensive)** - This course will study earth and other planets as comprehensive physical systems, incorporating solid, liquid, gas, and radiation constituents, as well as exhibiting interactions with other systems. It includes planetary evolution, gravitational physics, atmospheric evolution, volcanism and crustal movement, global energy systems, organic systems and ecologies, oceanography, orbital mechanics, and planetary systems.

**GENERAL SCIENCE - (Grades 10 - 12) (Comprehensive)** - An introductory course comprised of learning experiences related to principles and processes from both biological and physical science in the student's daily life. The general science course shall include topics from life science, physical science, and earth and space science.

**GENERAL CHEMISTRY - (Grades 10 - 12) (Comprehensive)** This course is for students not pursuing science-related careers. General Chemistry will cover revised topics of Chemistry including scientific measuring and calculating, classification of matter, atomic structure, the periodic table, periodic properties, typical elements and bonding.

**ECOLOGY- (Grades 10 - 12) - (Comprehensive - Elective)** - This course focuses on ecological topics such as forestry, aquatics, wildlife, soils, land use as well as current environmental issues such as alternative energy. This course offers hands on experiences in areas such as water quality testing and species identification. An emphasis is placed on Pennsylvania as well as involvement with various organizations such as the DCNR, Pennsylvania Fish and Boat Commission, and the Pennsylvania Game Commission. This course is intended for students with a strong interest in the environmental field. Students who take this course will also have the opportunity to compete in the annual Envirothon competition. **Semester course (½ credit)**

**DISCOVERING YOUR GENES – (Grades 10 - 12 – Priority given to seniors) – (Comprehensive –Elective)** – This course is open to both academic and non-academic students and will introduce students to the science of genetics in both plants and animals. Come explore where your hair and eye color comes from, how we use genetics to grow bigger and better plants, and the consequences that come with our improved understanding of the human genome. **Semester course (½ credit).**

## **SOCIAL STUDIES**

**US HISTORY II : RECONSTRUCTION THROUGH WWII** - (Grade 9) - Focus on American history and cultural development of the U.S. and concludes with the end of WWII. **Academic (85% or better and teacher recommendation) and Comprehensive**

**CIVICS/GOVERNMENT** - (Grade 10) - This course will revolve around the role of government, the formation of government, and the rights and responsibilities of citizens. It will also cover financing of government, the legal system, and elections. Finally, it will serve as a comparative to other political systems and the role the United States plays in the world. **Academic (85% or better and teacher recommendation) and Comprehensive**

**WORLD HISTORY** - (Grade 11) - Emphasizes the development of Western civilization from the year 1450 CE to approximately WWII. **Academic (85% or better and teacher recommendation) and Comprehensive**

**MODERN CRITICAL ISSUES: POST WWII TO PRESENT** – (Grade 12) - This course is based on the rights and responsibilities of a participating citizen. The students will learn the basic parameters of post WWII American history. Students will also discuss, write about, and analyze the five social institutions of government, religion, education, economics, and family. **Academic (85% or better and teacher recommendation) and Comprehensive**

**AMERICAN POLITICAL PROCESS** - (Grades 11 - 12) An introductory course focusing on American politics and government. Emphasis is on political processes and institutions on the national level, including Congress, the presidency, the Supreme Court, political parties, pressure groups, and elections. *This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee (PS 0102).* **PREREQUISITE: Teacher recommendation. Semester course (½ credit)**

## **ART**

**INTRO ART** - Entry level Art class - will use 2-D and 3-D art forms (drawings, paintings, sculptures, ceramics, architecture, prints.) **Semester course (½ credit)**

**BASIC 2-D** - Basic skills for manipulating materials native to drawing, painting, printmaking and digital output. An extensive study of Art's history will be covered. **PREREQUISITE: A 70% average or better in Intro Art and teacher recommendation**

**ADVANCED 2-D I & II** - The Advanced student is expected to complete one major independent and at least one teacher directed assignment each six weeks (including graphic software and peripherals) and a competitive portfolio. Again, a study of Art's history will be covered. **PREREQUISITE: A 70% average or better and teacher recommendation**

**BASIC 3-D** - Basic skills or manipulating materials native to sculpture, fibers, ceramics (hand building and potter's wheel) and architecture will be developed. An extensive study of Art's history will be covered. **A 70% average or better in Intro Art and teacher recommendation**

**ADVANCED 3-D I & II** - The Advanced student is expected to complete one major independent and at least one teacher directed assignment each six weeks, in addition to creating a competitive portfolio. Again, a study of Art's history will be covered. **A 70% average or better and teacher recommendation**

**PHOTOGRAPHY** - (Grades 11 & 12) – The student will construct a working camera, develop his/her own photographic prints, learn the basic function of a 35mm camera. **Semester course (½ credit)**

**CERAMICS I** - (Grades 9 - 12) - Equipped with design principles from Intro Art. Students will explore clay and produce personal expressions in response to teacher directed assignments. Students will develop skills in hand building and wheel throwing to create both functional and non-functional pieces that explore various subject matter and themes. Students will plan, make, evaluate, appreciate clay works and study Art's history. **Semester course (½ credits) PREREQUISITE: Intro Art**

**CERAMICS II - (Grades 10, 11 & 12)** - Students will build upon their understanding of the techniques and skills they learned in Ceramics I. Students will be required to complete independent and teacher directed assignments related to hand building and wheel throwing. Emphasis is placed on daily efforts, commitment to personal goals, technique and self-evaluation. Again, students will plan, make, evaluate and appreciate art work. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better in Ceramics I and teacher recommendation.**

**PAINTING I - (Grades 9 - 12)** - Equipped with design principles from Intro Art. Students will explore a variety of painting mediums and produce personal expressions in response to teacher directed assignments. Basic skills or manipulating materials related to painting will be developed. Students will plan, make, evaluate, appreciate painting works and study Art's history. **Semester course (1/2 credit) PREREQUISITE: Intro Art**

**PAINTING II - (Grades 10, 11 & 12)** - Students will build upon their understanding of the techniques and painting processes they learned in Painting I. Each student will be required to create a body of work in their chosen paint medium or mediums. This body of work will display thought and critical thinking with respect to an idea or message the student would like to convey. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better in Painting I and teacher recommendation.**

**GRAPHIC ARTS - (Grades 10-12)** - This course is designed to focus on basic design in the art studio. It synthesizes art and technology in today's world. Students will understand and apply media, techniques, and processes within the graphic design industry. They will learn to use knowledge of structures and functions while evaluating a wide range of subject matter, symbols, and ideas. They will learn how the visual arts relate to history and cultures of the past. Students will learn how designers use both traditional hand created methods and then incorporate those ideas onto the computer to enhance their designs using Photoshop elements, QuarkXpress, Publisher, and photography as well. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better Intro to Art**

**DRAWING I - (Grades 9-12)** - Equipped with design principles from Intro Art, students will explore a variety of drawing mediums and produce personal expressions in response to teacher directed assignments. Basic skills or manipulating materials related to drawing will be developed. Students will plan, make, evaluate, appreciate drawings and study Art's history. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better Intro to Art**

**DRAWING II - (Grades 10-12)** - Students will build upon their understanding of the techniques and drawing processes they learned in Drawing I. Each student will be required to create a body of work in their chosen drawing medium or mediums. This body of work will display thought and critical thinking with respect to an idea or message the student would like to convey. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better Drawing I and teacher recommendation**

**PRINTMAKING - (Grades 9-12)** - This course is open to any student who has successfully completed Intro to Art with a 70% or above. This course will utilize the elements and principles of design through the exploration of Intaglio, relief and serigraphy printmaking processes. Students will explore the art history, art criticism, art aesthetics, and art production of printmaking. **Semester course (1/2 credit) PREREQUISITE: A 70% average or better Intro to Art**

### **BUSINESS EDUCATION**

**ACCOUNTING I - (Grades 10 - 12)** - This course is recommended for all students in Grades 10 - 12. It serves as a test of student interest in business related careers and serves as a foundation for studies in many related fields. Topics include: basic financial statements, payroll and banking activities, and accurate record keeping.

**ACCOUNTING II** - Advanced principles of accounting are presented. Special journals, sales taxes, bad debts, depreciation, and voucher systems are stressed. **PREREQUISITE: Accounting I, teacher recommendation**

**CAREERS AND BASIC CAREERS EXPLORATION** - This semester course is *mandatory for graduation* and will be taken by all 10<sup>th</sup> grade students. Students will explore the world of work. Career portfolios will be created using career development software and web based resources. Students will be required to present a career report. After completion of the course, students will be able to identify a career pathway to assist in their high school course selections and to assist in future planning. The web-based career portfolio will be further enhanced and used in the required Adult Living class in 10<sup>th</sup> grade. **Semester course (½ credit)**  
**REQUIRED FOR GRADUATION**

**COLLEGE ACCOUNTING - (Grades 11 & 12)** - This full-year course is for students planning to enroll in any college business program and have yet to take an accounting course. Standard accounting ledgers, automated accounting software and an industry-standard software package may be utilized.

**COMPUTER PROGRAMMING I - (Grades 10-12)** - The student will be introduced to object oriented programming using Visual Basic. Students will develop object-oriented programs. Students will be able to identify and explain the steps in the systems development life cycle and create a Windows-based application. **PREREQUISITE: "C" or better in Webpage Design. - Semester course (½ credit)**

**COMPUTER KEYBOARDING APPLICATIONS I** - (Grades 10 - 12) - This year-long introductory course is geared toward the development of proper keyboarding, or typing skills at both the personal and vocational levels of competency. Topics covered using Word XP in a WINDOWS environment will include letters and memorandums, proofreading and editing, composition skills, formatting and producing reports, tables and other business documents. **Students should be able to work independently and must seek teacher recommendation. Ninth grade students can only be added to this class by permission of teacher. Semester course (½ credit)**

**COMPUTER KEYBOARDING APPLICATIONS II** – (Grades 10 - 12) - This year-long course builds on those skills learned in Computer Keyboarding Applications I. Database, spreadsheet, PowerPoint presentations, email and other advanced topics are covered using Microsoft Excel, Access, PowerPoint and Outlook integrated in the Office XP Suite. **Semester course (½ credit)**

**PREREQUISITE: Computer Keyboarding Applications I, Keyboarding/Word Processing or Computer Applications**

**ENTREPRENEURSHIP I ( WITH WOOD TECH AND PASTRIES/CHEF)** (Grades 10-12) - This year-long course (*worth 1.0 credit*) is an introduction to the world of entrepreneurship and economics. Students will learn the about the skills that it takes to become an entrepreneur. Students will learn how to plan out a business venture, how to develop marketing strategies, and also manage their business. The students will work inside the classroom and have the choice to work with Wood Technology or Pastries/Chef.

**Pastries/Chef Element:** Students will plan foods for everyday apartment living and for special occasions. Following a recipe, working with others and learning current information concerning our food supply will be covered. We will be producing high quality baked goods with artistic touches. You can learn techniques, be creative and enjoy this fine art.

**Wood Technology Element:** Students will build their skills in the use of hand tools, machine processes, computer numeric controlled router and lathe, problem solving, and portfolio design. Students interested in a career in cabinet making, product design, carpentry, pattern development, forestry aide, drafting, architecture, interior design, wood product engineer, or just a hands-on experience are encouraged to take this course.

### **ENTREPRENEURSHIP II**

This year-long course is an extension and more in-depth look into the world of entrepreneurship. The course builds off of what the students learned from Entrepreneurship I and challenges the students to look beyond basic business decisions. The students will continue to grow and improve on business decisions that were made in Entrepreneurship I and continue to learn what it takes to manage a small business. The students will continue to work with Wood Technologies and Pastries/Chef along with working in the Spirit Store but will be given more responsibility for business decisions needed to run successful in and out of the classroom businesses. **PREREQUISITE:** Passing grade in Entrepreneurship I

### **SOCIAL MEDIA MARKETING** - (Grades 10-12) \*ANTICIPATED\*

Students receive an introduction to marketing functions and study the Internet and Social Media marketing's role in the global economy. Students gain knowledge of the tools and techniques used in Internet and Social Media marketing. They explore ethical, legal, and security aspects and prepare for a career in Internet and/or Social Media marketing. Academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. **Semester course (½ credit)**

### **SPORTS AND ENTERTAINMENT MARKETING** - (Grades 11 & 12)

This interesting and provocative course covers the fundamental principles and concepts identified with the marketing of sports and entertainment. Major emphasis will be on **college and professional sports** with some time spent on high school athletics. The entertainment portion of the course explores the marketing field specializing in **music, movies, and television.**

**Semester course (½ credit)**

### **PERSONAL FINANCIAL LITERACY** - (Grades 11-12) \*ANTICIPATED\*

How money smart are you? This semester course is designed to teach the fundamentals of money management. Students will develop skills working with budgets, checking and savings accounts, paying for college, credit information, insurance and investing. Other topics will include car loans, sales tax, managing debt and many more important financial matters. Project-based learning with real-world scenarios will engage students to make informed financial decisions. No pre-requisite required. **Semester course (½ credit)**

**WEBPAGE DESIGN** - (Grades 10 - 12) - Web Page Design introduces students to **Macromedia Dreamweaver CS3**. Students will create Websites using Macromedia Dreamweaver to generate HTML code. Students will also learn Web site navigation and structure, as well as planning and maintenance of a Website. **Semester course (½ credit) PREREQUISITE: "C" or better in Computer Applications or teacher recommendation and Algebra I**

**WEBPAGE DESIGN II** - (Grades 10 - 12) - Web Page Design II is a course that continues with advanced topics in Web creation using **Macromedia Dreamweaver CS3**. Students will create real world application Web sites for local businesses, teachers, activities, organizations, or other school related needs. **Semester course (½ credit) PREREQUISITE: "C" or better in Webpage Design and Algebra I**

## FAMILY AND CONSUMER SCIENCE

**CHEF - (Grades 11 & 12)** - In Chef we plan foods for everyday apartment living and for special occasions. Following a recipe, working with others and learning current information concerning our food supply will be covered. **Semester course (½ credit)**

**PASTRIES - (Grades 11 & 12)** – This class is for Juniors and Seniors who have a strong desire to learn the pastry arts. We will be producing high quality baked goods with artistic touches. You can learn techniques, be creative and enjoy this fine art. Limited openings. **Semester course (½ credit)**

**CHILD DEVELOPMENT - (Grades 10 - 12)** - Child Development is designed to bring knowledge of child development, parenting and child care to the student. A knowledge and practical “hands on” approach is combined throughout the course. This course is great for any student who would like to pursue a career working with children. **Semester course (½ credit)**

**FACS (Family And Consumer Science)- (Grades 11)** - The concepts of the family, consumer economics, careers, and balancing work and family life are included in this course. **Semester course (½ credit) REQUIRED FOR GRADUATION**

## WORLD LANGUAGES

### SPANISH I – IV

### FRENCH I, II

#### **LEVEL I – (Academic) – French and Spanish**

Through interactive multimedia, students begin to acquire the basic language skills by investigating authentic culture situations. The course is designed around basic conversational expressions. Grammar and vocabulary are taught to support these conversational expressions to help students communicate in the target language. **PREREQUISITE: Proficient on the PSSA in English and Reading; English Teacher recommendation**

#### **LEVEL II - (Academic) – French and Spanish**

Level II courses continue to help students to become proficient in a second language through hands-on experiences derived from and related to the target cultures. Vocabulary and grammar are taught to support the communicative functional approach to learning the target language. **PREREQUISITE: C average in Level I**

#### **LEVEL II - (Accelerated) – Spanish Only**

Accelerated Level II includes a study of the Spanish language and culture with technology as the primary modality of learning and an exploration of the communicative arts of speaking, writing, reading, and listening based upon foreign language standards. The class expands upon previous vocabulary with a continued focus on verbs, including the present tense, preterite tense, and commands, and introduces students to object and reflexive pronouns with a goal of Spanish proficiency. **PREREQUISITE: B average in Spanish 1B and Teacher recommendation**

#### **LEVEL III - (Academic) – Spanish Only**

Spanish Level III continues to study the Spanish language and culture with technology as the primary modality of learning and an exploration of the communicative arts of speaking, writing, reading, and listening based upon foreign language standards. The class expands upon previous vocabulary with a continued focus on verbs, including the present tense, preterite tense, and commands, and introduces students to object and reflexive pronouns with a goal of Spanish proficiency. **PREREQUISITE: B average in Level II and Teacher recommendation**

#### **LEVEL III - (Accelerated) – Spanish Only**

Accelerated Level III continues to study the Spanish language and culture through the use of technology and an emphasis on the communicative arts of speaking, writing, reading, and listening based upon foreign language standards. The class expands upon previous vocabulary and focuses extensively on verbs in the past tense and other advanced aspects of Spanish grammar with a goal of Spanish proficiency. **PREREQUISITE: B average in Accelerated Level II and Teacher recommendation**

#### **LEVEL IV - (Academic) – Spanish Only**

Spanish Level IV continues to study the Spanish language and culture through the use of technology and an emphasis on the communicative arts of speaking, writing, reading, and listening based upon foreign language standards. The class expands upon previous vocabulary and focuses extensively on verbs in the past tense and other advanced aspects of Spanish grammar with a goal of Spanish proficiency. **PREREQUISITE: B average in Level III and Teacher recommendation**

#### **LEVEL IV – Accelerated SPANISH – (Grade 11)**

Students in this course will be preparing for the level of Advanced Placement. The goal of the class is to assist students in learning to read for content and write fluently and easily, using vocabulary acquired from context. The class expands upon previous vocabulary, exposes students to authentic sources in the target language, and heavily emphasizes fluency through a mastery of verb forms and parts of speech. Students work systematically to produce persuasive essays, well-organized and grammatically correct, in an effort to hone their skills necessary to succeed on the Advanced Placement Spanish Language Examination. ***This course can be taken for college credit granted by the University of Pittsburgh for a nominal fee.*** **PREREQUISITE: B average in Accelerated Level III and Teacher recommendation**

#### **AP SPANISH – (Grade 12)**

This course will prepare students for the Advanced Placement Spanish Language and Culture Examination of the College Board. The class aims to achieve mastery in speaking, listening, reading, and writing. Students will submit speech samples online, write compositions, read authentic written and print sources for comprehension, and listen to authentic audio in the target language. They will further perfect their grammar and discuss ideas in Spanish. **PREREQUISITE: B average in Pre-AP Spanish Language and Teacher recommendation**

#### **HISPANIC CULTURAL STUDIES --(Grades 9-12) Half credit course**

Through interactive multimedia, students begin to acquire basic cultural awareness by investigating authentic culture situations of multiple Hispanic Nations. The course is designed to explore basic language, art, literature, government, and social norms. This course will expand on content about everyday life and cultural awareness for foreigners.

### **MUSIC**

#### **PERFORMING MUSIC GROUPS**

**CONCERT BAND (Grades 9-12) –  $\frac{3}{4}$  credit course;** students must be involved in two Fall OCHS sports (or one sport if it is Varsity football)

**CONCERT BAND/MARCHING BAND (Grades 9-12) – full credit course**

The Oil City Senior High Bands are performance-based classes that will examine a wide range of pieces from antiquity to popular music through performance and listening. In addition to listening, students will analyze and study elements of music through various compositions. The Marching Band will perform at all football games and various appearances throughout the region. The concert band will perform a holiday concert, and a spring concert. Other smaller ensembles branch from concert band such as jazz ensemble and chamber ensembles. Schedules of all events will be available at the beginning of the school year.

**CONCERT BAND/A CAPPELLA (Grades 9-12) – Full credit course** (see Concert Band above and A Cappella Choir Below)  
Students will receive  $\frac{2}{3}$  credit for their participation in A Cappella Choir, and  $\frac{1}{3}$  credit for their participation in Concert Band

**CONCERT BAND/MARCHING BAND/A CAPPELLA (Grades 9-12) – full credit course**  
Students will receive  $\frac{1}{2}$  credit for their participation in A Cappella Choir, and  $\frac{1}{2}$  credit for their participation in Concert Band

**BASS CHOIR (9<sup>th</sup> Grade students or first year students with tenor or bass voices in Grades 10-12)** - Full Credit Course

This Choir is designed for those students who have not participated in a choir at the high school level, and is designed to provide a small group singing experience to male singers in grade 9 and above. Content emphasis will be placed on increasing personal and group vocal technique, basic musicianship, and musical independence. Students will study two, three, and four-part music of varying styles, genres, and languages throughout the year. Students will perform a minimum of two concerts per year.

**TREBLE CHOIR: (9<sup>th</sup> Grade students or first year students with soprano or alto voices in Grades 10-12)**- Full Credit Course

This Choir is designed for those students who have not participated in a choir at the high school level, and is designed to provide a small group singing experience to female singers in grade 9 and above. Content emphasis will be placed on increasing personal and group vocal technique, basic musicianship, and musical independence. Students will study two, three, and four-part music of varying styles, genres, and languages throughout the year. Students will perform a minimum of two concerts per year.

**A CAPPELLA CHOIR - (Grades 10 - 12)** - Full Credit Course

A Cappella Choir is the flagship choir of the Oil City High School Choir Program, and is designed to provide students in grades 10 – 12 singing experience in a large group atmosphere. Content emphasis will be placed on group vocal technique, advanced musicianship concepts, and the performance of the masterworks of choral literature. Students will study a wide range of music of up to eight parts that will include varying styles, genres, compositional techniques, and languages. Students will perform in a minimum of two concerts per year. **PREREQUISITE: Successful completion of Treble or Bass Choir AND successful completion of the musicianship competency. Students unable to schedule Treble or Bass Choir may still enter A Cappella with teacher recommendation.**

## **NON-PERFORMANCE MUSIC CLASSES:**

**MUSIC APPRECIATION** - Semester course - (1/2 credit) - Music Appreciation is the study of music history and basic music theory. Students will study the major musical periods of European and American music, as well as the different musical traditions of other world cultures.

**20<sup>th</sup> CENTURY AMERICAN POPULAR MUSIC** - This course will cover popular music styles in America during the 20<sup>th</sup> century. It will include the swing era, country-western, cowboy swing, jazz, rock n' roll, and fusion among others. **Sem. course - (1/2 credit)**

## **PHYSICAL EDUCATION\* and HEALTH** **(\*ONE PHYS. ED UNIT IS REQUIRED EACH YEAR FOR GRADUATION)**

**PHYSICAL EDUCATION** - (Grades 9 - 10, 11 - 12) - Physical Education focuses on personal health with emphasis on health-related fitness. Students will work to improve their cardiovascular system, body composition, strength, endurance, and flexibility. A variety of fitness, skill technique, individual, and field activities will promote the development of lifetime fitness skills. Some examples include fitness activities, aquatic games, racquet sports, handball/tchoukball, soccer, speedball, football, basketball, softball, floor hockey, ultimate Frisbee, lacrosse, volleyball, and large group games. **Semester course (½ credit)**

**LIFEGUARDING** - (CO-ED) – (Grades 10 - 12) - Successful completion of the course can result in the candidate receiving a two-year certification in Red Cross "Advanced LIFEGUARDING" and Community First Aid and two-year CPR for Professional Rescuer. Strong swimming skills are necessary for adequate performance. **Semester course (½ credit) \*\*Lifeguarding can only be taken twice between Grades 10 – 12.**

**HEALTH** - Health is taught at the *ninth grade* level. The curriculum helps students to cope with the many, varied pressures and temptations to which they will be exposed in their life. Included is a wellness approach to developing a healthy lifestyle. **Semester course (½ credit) - REQUIRED FOR GRADUATION**

**DRIVERS ED CLASSROOM** - This is a 30-hour course offered during the summer or throughout the school year. This course will review the PA driving laws. Not scheduled during the school day, please contact Mr. Heber or Mr. Miller with questions.

**BEHIND THE WHEEL DRIVING** - Behind the wheel driving is offered to any student who has a driving permit or license. *It is offered after school, Saturdays and during the summer at the expense of the student.* Students are selected on a first-come, first-serve basis. **You must take the classroom portion before you can take the Behind-the-Wheel.** *Contact: Mr. Heber or Mr. Miller to schedule.*

## **TECHNOLOGY EDUCATION**

**VIDEO PRODUCTION I** – (Grades 10 -12) - This is an advanced course building on the knowledge learned in Media Studies. Students will receive a more **in-depth** experience of the broadcasting field. Students will work individually, in pairs, and in small groups on various video projects. Students will be required to attend school/community activities after school as part of the broadcasting curriculum. Students who take this course should be self-motivated, work well with others and willing to put in the extra time and effort needed for this course. **PREREQUISITE: Instructor Approval**

**VIDEO PRODUCTION II** – (Grades 11-12) - This is an advanced course building on the knowledge learned in Broadcasting I. Students will receive a more in-depth experience in editing and film work. Students will work individually, in pairs, and small groups on various video projects. Students will be required to attend at least 2 school/community activities after school per 9 weeks as part of the broadcasting curriculum. Students who take this course should be self-motivated, work well with others and willing to put in the extra time and effort needed for this course. **PREREQUISITE: Broadcasting I, Instructor Approval**

**VIDEO PRODUCTION LEADERSHIP** - (Grade 12) - Students will lead teams of their peers. Students will: write, cast, direct, and produce short films; schedule, direct, and produce multi-camera live productions; guide the video production budget; schedule, assign, and produce weekly news content programs; organize and maintain an equipment library; and assist in the evaluation of student work. **PREREQUISITE: Broadcasting I & II, Instructor Approval**

**DRAFTING I** - Emphasis will be on sketching and drawing three view drawings using drafting machines and equipment. Computer aided drafting will be introduced. *This course is a must for students pursuing a career in engineering, architecture, or any related technical field.* **Semester course (½ credit)**

**DRAFTING II** - Problem-solving through the use of technical working drawings will be covered. This course is designed to enable students to visualize in three dimensions, develop and strengthen their technical imagination, and to read and write the language of industry. **(Full-year course) PREREQUISITE: Successful completion of Drafting I.**

**ARCHITECTURE I** - This course is designed to teach students the fundamental skills and concepts necessary for architectural planning, designing, and drawing. During this course, students will develop and apply creative skills in the design of a one-story residential house. **(Full-year course) PREREQUISITE: Successful completion of Drafting II.**

**ARCHITECTURE II** - Elements of the course include architectural styles, area planning, structural detailing, pictorial rendering, and building specifications. During this course, students will develop and apply creative skills in the design of a two-story residential house. **(Full-year course) PREREQUISITE: Successfully complete Architecture I.**

**WOOD TECHNOLOGY I** - General shop safety and proper machine use will be of major emphasis throughout the course. This course is offered to all students interested in "HANDS ON EXPERIENCE" in the areas of construction & manufacturing.  
**Semester course (½ credit)**

**WOOD TECHNOLOGY II, III, IV** - These courses will build your skills in the use of hand tools, machine processes, computer numeric controlled router and lathe, problem solving, and portfolio design. Students interested in a career in cabinet making, product design, carpentry, pattern development, forestry aide, drafting, architecture, interior design, wood product engineer, or just a hands-on experience are encouraged to take these courses. **(Full-year course)**

**PREREQUISITE: Wood Tech II - Successful completion of Wood Tech I  
Wood Tech III & IV – You must have a GPA of at least 80% or teacher recommendation**

### **GIFTED EDUCATION**

Students can participate in the Gifted Program for credit, either for one semester or a full year by completing the following criteria:

**GIFTED ACADEMY - Semester course (½ credit)** - An authentic learning project that involves a business, corporation, or other community cooperative in Venango County or throughout the state of Pennsylvania. A research paper will accompany this project as well as the utilization of technology. One or two competitions, including essay competitions, quiz bowl or other deemed appropriate by the instructor will be made available to gifted students.

### **LIFE-SKILLS CLASSES**

Students who have been identified with specific developmental delays and/or disorders can participate in Life-Skills Classes. These classes are specifically designed and taught to meet their needs and help them develop and master various skills for daily living.

**MATH FOR DAILY LIVING -9, -10, -11, -12** – This course is designed to increase student mathematical knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making and problem solving, communication, and consumerism. This is an adapted skills class designed to meet the unique needs of the learners. **(Full-year course)**

**SCIENCE FOR DAILY LIVING -9, -10, -11, -12** – This course is designed to increase student science knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making, problem solving, and communication. This is an adapted skills class designed to meet the unique needs of the learners. The focus areas of this course include: Animals, Plants, Hygiene, Nutrition, Weather, and the Human Body. **(Full-year course)**

**SOCIAL STUDIES FOR DAILY LIVING -9, -10, -11, -12** – This course is designed to increase student social studies knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making, problem solving, communication, healthy lifestyles and relationships, nutrition, personal safety, citizenship and consumerism. This is an adapted skills class designed to meet the unique needs of the learners. **(Full-year course)**

**ENGLISH FOR DAILY LIVING -9, -10, -11, -12** – This course is designed to increase student English language knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making, problem solving, communication, reading, and writing. This is an adapted skills class designed to meet the unique needs of the learners. **(Full-year course)**

**HEALTHY RELATIONSHIPS -9, -10, -11, -12** – **Semester course (½ credit)** This course is designed to increase student relational/interpersonal knowledge and skills for everyday living. The course emphasizes on social skills, problem solving, decision making, communication, hygiene, job readiness and life after high school, understanding his/her body, health, and how to deal with issues one may face in the community.

**FAMILY CONSUMER SCIENCE FOR DAILY LIVING (I AND II)**– **Semester course (½ credit)** This course is a basic comprehensive instructional program designed to help prepare students for multiple roles as individuals and family members. Emphasis is placed on leadership, decision making, consumer skills, personal and family relationships, parenting, health, nutrition, housing design, basic sewing and cooking skills. This is an adapted skills class designed to meet the unique needs of the learners.

**WATER SAFETY -9, -10, -11, -12 – Semester course (½ credit)** This course is designed to increase student water safety/swimming knowledge and skills necessary for everyday living. The course emphasizes basic water safety. This is an adapted skills class designed to meet the unique needs of the learners.

### **MISCELLANEOUS**

**ACADEMIC DECATHLON** - This course will prepare students for participation in the Pennsylvania Academic Sports League. The curriculum guides will come from the U.S. Academic Decathlon and focus on the in-depth study of science, math, literature, economics, art, and music as they apply to a particular topic which changes yearly. Speech and interview skills are also incorporated into this program. Many local colleges and universities participate in this program and offer scholarships to student competitors. Competitions are held on Saturday (one Saturday per month for 3-4 months).

**PREREQUISITE:**

**All Students – Must have teacher recommendation**

**9th grade students – Must have a 3.5 GPA or higher along with teacher recommendation**

## **VENANGO TECHNOLOGY CENTER (VTC) COURSES**

VTC courses are available to eligible students in grades 10, 11, and 12. To attend VTC, students must complete the VTC application AND meet OCHS attendance/credit/discipline requirements. Attendance: No more than 20 days absent, above 20 days absent results in denial of application or removal from VTC. Credits: Students must have at least the minimum number of academic credits to attend VTC (10<sup>th</sup> grade = 5 credits, 11<sup>th</sup> grade = 11 credits, 12<sup>th</sup> grade = 17 credits), as well as pass all core/required courses. Failure of core/required courses results in denial of application or removal from VTC. Disciplinary issues are disclosed to VTC during the application process and may result in denial of application or removal from VTC. VTC application documents can be found at [www.vtc1.org](http://www.vtc1.org).

### **Allied Health Occupations**

This program is designed to prepare the students for a career in the healthcare field caring for patients in hospitals, nursing homes, and home care. Students learn CPR, First Aid, medical terminology, and how the body works. Students work towards earning a special license to become a Certified Nurse's Assistant (CNA).

### **Auto Body Repair Technology**

The student learns the following skills: MIG welding, use of hand tools, collision and plastic repair, refinishing & painting techniques, and damage estimating. The auto body student will analyze damage to uni-body structures, look up manufacturer's paint codes, and mix the correct colors of paint. A state of the art downdraft spray booth is available for the development of refinishing skills.

### **Automotive Technology**

New students learn automotive maintenance including the following: brake work, tire changing & repair, wheel balancing, oil changes, lubrications, exhaust systems, and electrical systems, analysis of engine problems, adjustment, repair, and replacement of faulty parts. The students also learn engine tune-up, engine overhaul, steering systems, wheel alignments, fuel injection theory, drive-ability, and repair.

### **Building Construction Technology**

This course begins with an emphasis on the safe use and care of hand tools and power tools. Rough framing, roof framing, exterior finish, interior finish, and stair building are taught and the learning is culminated with the construction of an actual full-scale house. Electrical wiring, plumbing, dry-wall application and masonry are also taught. Trade mathematics, estimating, and blueprint reading are major units of the course.

### **Computer Aided Drafting & Design (CADD)**

The CADD curriculum prepares the student for entry-level skills as a mechanical or architectural draftsman. Basic drafting fundamentals on the drafting board, applied mathematics and basic geometry, and computerized drafting (CAD) comprise the Computer Aided Drafting & Design curriculum. The CAD equipment is computer-based with the latest version of AutoCAD, Architectural & Mechanical Desktop, Inventor Series Professional, and Revit Building programs.

### **Computer Information Systems**

The first year is devoted to introducing students to computer concepts and terminology, general business applications with Microsoft Office, computer programming, website development, and 2D animation. The second year students learn how to analyze common hardware/software/networking processing, problems, and preformation issues, integrate common preventive maintenance techniques, and identify cyber law and digital forensics by using computer forensics techniques. Third year students will concentrate on multimedia development, 2D video game development, and 3D animation commonly seen in video games and motion pictures.

### **Culinary Arts**

The culinary arts department is divided into two phases: chef training (including baking) and waiter/waitress training. The chef training emphasizes foodservice and bakery operation; including banquet service, buffets, fast food preparation, and institutional food service. The waiter/waitress program stresses proper customer service, table setting, reading and describing a menu, and cash register operation.

### **Dental Assisting**

Dental Assistants carry out a wide variety of jobs within a private dental office, clinic or hospital setting. Dental Assistants work alongside the dentist to provide a second pair of hands while giving comfort to the patient. Some of these jobs include greeting patients, preparing procedure trays, mixing required dental materials, evacuation of fluids, and the transfer of instruments & instrument sterilization. They also give oral hygiene instructions along with pre- and post-operative instructions and nutrition counseling.

### **Electronics Technology**

Students study electrical and electronic circuits, audio and digital electronics, microprocessors, robotics systems, copper cabling, fiber optics, and computer servicing and troubleshooting. Students operate voltmeters, oscilloscopes, and other specialized equipment. Students will also receive instruction in programmable logic controllers and industrial motor controls. Students will build their own lab trainer, multi-meters, and other electronic projects. A prior course in algebra is helpful, but not required.

### **Heavy Equipment Repair Technology**

This program prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

### **Heating, Ventilation & Air Conditioning**

This is an instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric, electronic and pneumatic control systems.

### **Machine Tool Technology**

Blueprint reading, understanding instructions, and mental alertness, with good eye-hand coordination are necessary ingredients for the machine tool technology area. Machine work includes: lathe, milling machine, heat-treating, bench work, drill press, grinder, and bandsaw. In addition, the student is exposed to a computerized numerically controlled (CNC) milling machine and a computerized turning center. This enables the student to learn current technology as it relates to computer-controlled machinery.

### **Natural Resources**

A combination of subject matter and planned learning experiences dealing with conservation and natural resources such as air, forests, soil, water, fish, plants, and wildlife is a part of this course. Students are able to explore careers in forestry, horticulture, landscaping, recreational land use, environmental protection, and a variety of related careers. The four main areas of the program are: forestry, landscaping, horticulture, and greenhouse operation. Students are also instructed in the use of chainsaws, survey equipment, and operation of a landscape tractor and a log loader.

### **Protective Services**

This program provides a great start for students who choose to pursue higher education in their chosen field. Students will also learn skills that enable them to walk-on to several entry-level jobs that are in high demand in our area and across the United States. Students will develop the mental, physical, and moral attributes to be successful in the Protective Services fields, including Law Enforcement, Fire, and Emergency Medical Services. Students will engage in a daily regimen of physical fitness and will be required to keep their uniforms along with appearance up to standard.

### **Welding Technology**

The course deals with blueprint reading, hand tools, brazing, using oxygen/acetylene torches, shielded metal arc (stick) welding, gas metal arc (M.I.G.), gas tungsten arc (T.I.G.) welding, and flux core arc welding (FCAW) in various test positions. The student will cut metals using a variety of cutting processes. Students will practice and have the opportunity to obtain certifications under American Welding Society codes. Safety is stressed throughout the course.