

# Palmyra Area School District

Course Catalog – 2012-13



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## Mission of the Palmyra Area School District

*We are committed to providing a positive, safe learning environment in which all students are empowered to develop their unique potential to become lifelong learners and responsible citizens in a rapidly changing world.*

## Vision

*PASD: Performance Achievement Success with Dignity for All*

## **INTRODUCTION**

**Greetings and Welcome** to Palmyra Area High School! This Student Course Planning Guide has been published to assist students and parents in selecting an educational program that best fits each student's unique educational skills, talents and interests. Please take some time to review the contents so you can plan for a successful and meaningful high school experience. When making course selections, students should think about how their choices blend with their interests and abilities and lead to preparing oneself for life after high school. If you have any questions about any information printed in this catalog, please call the Palmyra Area High School Guidance Office at 838-1331.

### **Please note:**

Freshman and Senior students failing to meet proficiency in their eighth grade and eleventh grade PSSA's (in Reading and Math) will be required, without exception, to be scheduled into those remedial courses in those areas not meeting proficiency.

### **High School Administration**

Mr. David R. Jones, M.Ed. – Principal  
Mr. Paul J. Steigerwald, M.Ed. – Assistant Principal  
Mr. Daryl Reisinger, M.Ed. – Assistant Principal  
Mr. Brian Weidler – Athletic Director

### **High School Guidance**

*Students assigned by first letter of last name (-)*

Mrs. Jennifer Kulas, M.S. – (A-F)  
Mr. David Watson, M.Ed. – (G-K)  
Mrs. Jennifer Hilbert, M.Ed. – (L-R)  
Ms. Teresa Markulike, M.Ed. – (S-Z)  
Mr. Wayne Trotta, M.Ed. – Psychologist  
Lindsay Panichi – Social Worker  
Mrs. Rachiele Peters – Secretary

### **Additional District Support**

Mr. Mark Bucher – Director of Technology  
Mrs. Kim-Kathie Knudsen – Coordinator of Instructional Technology  
Mrs. Vicki Sauley – High School Secretary  
Mrs. Janet Richey – High School Secretary  
Mrs. Jodi Shaffer – High School Secretary/Attendance  
Mrs. Jill Whitehead – Secretary to the Athletic Director

**GRADUATION CREDIT REQUIREMENTS**

Course	2013	2014-2017	CTC- 2013- 2017
<b>Language Arts</b>	6 (Honors - 4*)	6 (Honors - 4*)	4 or 5
<b>Math</b>	5 or 6 (Honors - 4**)	5 or 6 (Honors - 4**)	4
<b>Science</b>	5	5	4
<b>Social Studies</b>	4	5	4
<b>Computer Technology</b>	2	2	1
<b>Phys. Ed.</b>	2	2	2
<b>Health</b>	1	1	1
<b>Driver Ed./Career Ed.</b>	.5	.5	.5
<b>Electives</b>	11.5-14.5****	9.5 – 13.5****	3.5 or 4.5 + 6 from CTC = 9.5 or 10.5
<b>Total Credits Required for Graduation</b>	37	37	31
<b>Total Credits Possible</b>	40	40	34

**\*English/Language Arts Requirements:**

Students taking Honors level English/Language Arts courses will need a minimum of 4 English / Language Arts credits to graduate. These credits must reflect Honors courses taken over 4 years.

**\*\*Math requirements:**

Students taking Honors level Math courses will need a minimum of 4 Math credits to graduate. These credits must reflect Honors courses taken over 4 years.

**\*\*\*Elective credits** needed will vary depending on minimum English / Language Arts and Math credits needed.

**Note:** Counselors and teachers will work with students concerning course selections. Students are, however, required to monitor his/her own progress towards graduation.

### **Guidelines for Honors Level courses:**

Students considering enrolling in Honors Level courses should consider the following:

- Honors level courses are highly rigorous and are designed for highly motivated and academically competent students.
- Students taking Honors level courses should consider their past academic performance. In general students whose grades are typically above 80% in prerequisite Honors course and 93% in prerequisite College Preparation course may consider Honors level course work.

### **Differentiated Grading System/Weighted Courses**

The following courses are weighted.

#### **Language Arts**

Honors American Lit. 11	1.05
Honors British Literature 12	1.05
AP English Lang. /Comp.	1.10

#### **Mathematics**

Honors Finite Math	1.05
Honors Pre-Calc.	1.05
AP Calculus	1.10
AP Statistics	1.10

#### **Science**

Honors Chemistry	1.05
AP Physics	1.10
AP Biology	1.10
AP Chemistry	1.10
Environmental Sci. (HACC Biol. 103)	1.10

#### **Social Studies**

Honors PA and U.S. History	1.05
Advanced PA and U. S. History	1.10
Western Civilization I	1.10
Western Civilization II	1.10

#### **Technology**

Honors Programming	1.05
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#### **World Languages**

Honors Level III	1.05
Honors Level IV	1.05
Honors Level V	1.05
<i>BlendedSchools</i> Language - College Level	1.10

#### **Art**

Honors Career Art I	1.05
Honors Career Art II	1.05
Advanced Studio Art	1.10

## GRADE PROMOTION REQUIREMENTS

**Promotions to the next grade are governed by the following requirements:**

10th Grade: 9 earned credits  
11th Grade: 18 earned credits  
12th Grade: 27 earned credits

## Requirements for Marking Period Honor Rolls

Regular Honor Roll - Grade Point Average of 3.0 to 3.699. All students must have earned grades of 80% or higher.

Distinguished Honor Roll - Grade Point Average of 3.70 or higher. All students must have earned grades of 90% or higher.

## Palmyra High School Grading Scale = Honor Roll Points Conversion:

93% - 100%	A	4.00
90% - 92%	A-	3.67
87% - 89%	B+	3.33
83% - 86%	B	3.00
80% - 82%	B-	2.67
77% - 79%	C+	2.33
73% - 76%	C	2.00
70% - 72%	C-	1.67
67% - 69%	D+	1.33
63% - 66%	D	1.00
60% - 62%	D-	.67
59% and below (50%)	F	.00

## Course Prerequisites:

All course prerequisites are listed at the bottom of the course description and assume a passing grade in the prerequisite course listed.

## User/Lab Fees

The Palmyra Area School Board has approved a user/lab fee of \$20.00 for 1.0 credit courses and \$10.00 for 0.5 credit courses.

A \$20.00 one-time music fee (for all music courses regardless of the number of music courses taken) will be required.

Students will be informed of the date user fees are due to be paid to the classroom teacher. This will be done by marking period. The teacher is responsible for the collecting, recording and submitting of fees to the high school office for deposit. All fees are deposited back into the district's general fund for disbursement at the school board's discretion

**CORE SUBJECT COURSE SEQUENCE**  
**Math Curriculum Sequence**

Pathway	9	10	11	12
<b>General</b>	Alg. I A/B	Geometry A/B	Algebra II A/B	Accounting I* Accounting II** Standards Math***
<b>CP (College Preparation)</b>	CP Alg. I A/B	CP Geometry A/B	CP Algebra II A/B	CP Pre-Calculus CP Finite Math CP Statistics AP Statistics Standards Math***
	9	10	11 and 12	
<b>Honors</b>	Honors Alg. II	Honors Geometry	Honors Pre-Calculus Honors Finite Math AP Statistics AP Calculus Standards Math***	

**Math Electives:**

- \*Accounting I (may count as a math credit in Grade 12 only)
- \*\*Accounting II (may count as a math credit in Grade 12 only)
- \*\*\* Math Standards Course (By placement only)

**NOTE:**

All A/B courses (Algebra IA and IB, Geometry A and B, and Algebra IIA and IIB) must be taken in the same school year. All students must successfully complete full Algebra I, Geometry and Algebra II courses

**Language Arts Sequence**

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
<b>General Lang. Arts</b>	CP Communication Skills 9	CP Communication Skills 10	Communication Skills 11	Senior English /Lang. Arts Standards Course*
<b>College Prep. Lang. Arts</b>	CP Communication Skills 9	CP Communication Skills 10	CP American Literature	CP British Literature or Speech and Debate
<b>Honors Lang. Arts</b>	Honors Communication Skills 9	Honors Communication Skills 10	Honors American Literature or AP Eng. Lang./Comp.	Honors British Lit. or Speech and Debate or AP Eng. Lang./Comp.

**Language Arts Electives:**

- |                              |                   |
|------------------------------|-------------------|
| Broadcast Journalism         | Speech and Debate |
| Journalism I and II          | Sports Literature |
| Outdoor Adventure Literature | Project Write     |
- \*Senior English/Language Arts Standards Course (By placement only)

## Science Curriculum Sequence

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
<b>General Science</b>	Physical Science	Biology	Science Elective	Science Elective
<b>College Prep. Science</b>	CP Physical Science	CP Biology	CP Chemistry	Science Elective*
<b>Honors Science</b>	Honors Physical Science	Honors Biology	Honors Chemistry	Science Elective*

\* An elective of Physics is highly recommended for college-bound students.

### Science Electives:

Integrated Science

Environmental Science

CP Environmental Science

Earth Space Science

CP Earth Space Science

CP Physics

AP Physics

AP Chemistry

AP Biology

CP Anatomy/Physiology

Environmental Science (HACC Biology 103)

Chemistry

## Social Studies Sequence

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
<b>General / College Prep. Social Studies</b>	World History / Geography	US Govt. and Economics	PA and US History	Social Studies Elective
<b>Honors Social Studies</b>	World History / Geography	US Govt. and Economics	Honors PA and US History or Advanced PA and US History	Social Studies Elective

### Social Studies Electives:

Psychology/ Sociology

World Religions

Archaeology/Forensic Anthropology

You and the Law

PA Studies

\*Western Civilization I

\*Western Civilization II

Cultural/Physical Anthropology

Current Events I & II

\*Western Civilization I and II and Advanced PA/US History are weighted courses and may be taken for HACC credit.

## **CORE COURSE RECOMMENDATIONS FOR 9TH GRADE STUDENTS**

<b><u>Core Subject</u></b>	<b><u>9th Grade Course</u></b>	<b><u>Who should take the course</u></b>
<b>Language Arts</b>	College Prep. Comm. Skills 9	8 <sup>th</sup> grade Language Arts grade B or less
	Honors Comm. Skills 9	8th grade Language Arts grade of A
<b>Mathematics</b>	Algebra IA and B	8th grade Pre-Algebra grade of 74% or lower
	College Prep Algebra IA and IB	8th grade Pre-Algebra grade of 75% or higher
	College Prep. Geometry A and B	8th grade Algebra grade of C or higher
	Honors Algebra II	8 <sup>th</sup> grade Algebra grade of A or B
<b>Science</b>	Physical Science	8th grade Science grade of C or less
	College Prep. Phys. Science	8th grade Science grade of B
	Honors Physical Science	8th grade Science grade of A

***\*These recommendations are meant to serve as a guide. All 8th grade students are urged to consult with their teachers, counselor, and parents regarding their selections.***

# COURSE OFFERINGS

Note: .5 classes will meet every day for 9 weeks during the school year with several minor exceptions related to Band, Orchestra and Chorus.

## AQUATICS, HEALTH, PHYSICAL EDUCATION - Grades 9, 10, 11, 12

.5 credit

Students may schedule Aquatics, Personal Fitness and Wellness or Physical Education to successfully meet their two-credit Physical Education requirement. In addition to fulfilling the mandatory Physical Education requirement, students are permitted to schedule Aquatics, Personal Fitness and Wellness and Physical Education to fulfill elective credit requirements.

### 0010 Aquatics - Grades 9, 10, 11, 12

.5 credit

Students choosing Aquatics will be required to demonstrate proficiency in the following units: basic and or advanced swimming strokes, water safety and basic rescue, skin diving, water polo, water fitness, and basic diving, as well as other game activities. Students with poor swimming ability should consider election of Aquatics in an effort to become "water safe." Students will be required to provide their own suits and towels. Evaluation will be by a combination of unit skill tests, teacher observation, and daily participation in all of the areas taught. (There will not be a written final examination; however, there will be a practical final)

### 0012 Lifeguarding Course -15 years of age or older

.5 credit

The purpose of this course is to provide students the Red Cross Lifeguarding Program. This course will provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to emergencies. It will also teach how to provide care for injuries and sudden illness until emergency medical service (EMS) personnel arrive and take over.

Participants need to be at least fifteen years of age and pass a swimming pre-test. The cost of this course is about \$48.00, which includes a Lifeguarding book and pocket mask. To become certified, the participant needs to score an 80% or higher on all written tests and needs to perform at a proficient level on all the scenarios. The certificates will include Lifeguarding and First Aid and CPR for the Professional Rescuer. This course counts towards a .5 PE credit.

**PREREQUISITE: Participants need to be at least 15 years of age on or by August 31<sup>st</sup> of the current school year.**

User fee = Lifeguarding requires a \$48.00 fee for Red Cross materials. Cost may be more depending on 2012-13 cost of materials.

### 0030 Physical Education I - Grades 9, 10

.5 credit

Instruction in this class will include health and skill related fitness concepts, various individual and team sports, and group activities. At this level, students will continue to develop mastery of skills in various sports as well as knowledge of rules and safety. Students will participate in drills, lead-up games and game situations. Required fitness tests will be administered and a daily change of clothing is required. Acceptable athletic attire for physical education class shall include: shirt, gym/athletic shorts, socks and sneakers.

### 0040 Physical Education II - Grades 11, 12

.5 credit

Instruction in this course will include concepts learned in Physical Education I with added emphasis on strategy and participation at a more advanced level. Required fitness tests will be administered and a daily change of clothing is required. Acceptable athletic attire for physical education class shall include: shirt, gym/athletic shorts, socks and sneakers.

### **0015 Personal Fitness and Wellness** - Grades 11, 12

.5 credit

Instruction in this course will include the concepts of personal physical fitness and physical activity, which will be used to develop and evaluate progress of lifelong health and wellness goals. This course will include both theory and activity, which will help teach and develop skills to create and use fitness goals, safety concepts, and workout programs. These skills will be directed toward implementing changes in behaviors that result in higher levels of fitness and improved health to increase your overall quality of life. This class will count towards a .5 PE credit.

### **0250 Driver Education / Career Education** - Grade 10

.5 credit

The Driver Education component of this class presents automobile operation, safe driving techniques, and highway traffic safety rules and regulations. It also assists the student in acquiring the driver's permit and other related forms. A supplemental elective course is available in behind-the-wheel instruction. The Career Education component of this class is based on the Pennsylvania Academic Standards for Career Education and Work. It is designed to acquaint students with the developmental process of matching interests, abilities and aptitudes with a career cluster or pathway. Students will learn about career awareness, career preparation, career acquisition, career retention, career advancement and entrepreneurship. They will demonstrate an understanding of basic skills for the world of work to develop a career portfolio and career action plan.

### **0265 Health Education I** - Grade 9

.5 credit

Health is a course required for all students in Grade 9. The course will focus on self-responsibility for wellness and making healthful decisions. Topics for study include: self-responsibility for wellness, nutrition, substance abuse, and body systems.

### **0275 Health Education II** - Grade 11

.5 credit

Health is a required course for all students in Grade 11. The course will focus on wellness topics for a healthy lifestyle. Topics for study include: substance abuse, diseases and disorders, mental health, first aid and CPR, in addition to other wellness topics.

PREREQUISITE: Health Education I

## **ART**

### **0111 Survey of Art** - Grades 9, 10, 11, 12

1 credit

This course (previously known as Introduction to Art) is a stepping stone course to the next level of Drawing and Painting. Students will work in a variety of media and processes without emphasis in any singular one. Opportunities in media include, but are not limited to, drawing, painting, textiles, sculpture, and graphic design. In addition to studio assignments, this course will follow the recommendations of Discipline Based Art Education (DBAE). As such, art history will be presented throughout the course and students will learn to critique both their own work and that of other artists. Aesthetics and what makes a quality piece of art will be discussed.

**User Fee = \$20**

### **0106 Drawing and Painting I** - Grades 9, 10, 11, 12

1 credit

Two-dimensional experiences will emphasize basic design techniques and principles, knowledge of art materials and promote a strong background in drawing methods. Extensive processing of Color Theory is anticipated. Media could include: pencil, charcoal, ink, pastel, mixed media, watercolor, and acrylic paint. The concepts of Discipline Based Art Education (DBAE) will be followed throughout this course (See Introduction to Art). Homework is assigned on a weekly basis.

PREREQUISITE: Survey of Art.

**User Fee = \$20**

**0107 Drawing and Painting II** - Grades 10, 11, 12

1 credit

This course will be an extension of the first level. Media and assignments will be altered. Emphasis will be placed on in-depth handling of assignments, which will include increased experimentation in media, manipulation, approach and expectations. Homework is assigned on a weekly basis. This course may be repeated for credit in a separate academic school year.

PREREQUISITE: Drawing and Painting I.

User Fee = \$20

**0112 Art History** - Grades 9, 10, 11, 12

1 credit

Students will study the history, progression and development of art and artistic styles. Assorted cultures and their effect on artistic styles will also be examined. Class discussion, essay questions, and slide identification are essential to the class. Areas of evaluation could include, but are not limited to, worksheets, quizzes, tests and project work. Knowledge of world history and experience in the incorporation of the Elements and Principles of Art in personal artwork is beneficial. Occasional nude artwork will be exhibited. A comprehensive final exam is given at the conclusion of the course and is worth 20% of the semester grade.

**0114 Two - Dimensional Design** - Grades 9, 10, 11, 12

1 credit

This course is offered to students intending to pursue higher level art classes either at PHS or at CTC. This course is intended to promote understanding and better assessment of quality compositions. The Elements and Principles of Art and Design are the foundation of the course and will greatly benefit any student considering a career in the field of art or design.

User Fee = \$20

**0116 Three - Dimensional Art I** - Grades 9, 10, 11, 12

1 credit

This course is designed to challenge the serious art student. Emphasis will be placed on the elements of art as they are related to three-dimensional art. The student will work in additive and subtractive sculpture. This is not a craft oriented course, but deals with sculpture as a major art form. The theories of DBAE will be incorporated into this course (See Survey of Art). A final project worth 20% of the semester grade is assigned in lieu of a final exam.

PREREQUISITE: Drawing and Painting I

User Fee = \$20

**0117 Three - Dimensional Art II** - Grades 10, 11, 12

1 credit

This course will be an extension of the first level; however students taking this course a second time will pursue different experiences in diverse media. This is your opportunity to expand upon what you did in Level I! A final project worth 20% of the semester grade is assigned in lieu of a final exam. This course may be repeated for credit in a separate academic school year.

PREREQUISITE: 3-D Art I.

User Fee = \$20

**0121 Honors Art I** - Grades 11, 12

1 credit (Weighted)

This course is designed for the person interested in pursuing a career in art. Emphasis will be placed on developing strong drawing skills, design principles, an understanding for art-related career options, and creative interpretation of assignments. Homework assignments and due dates are strictly adhered to. Grade deductions will be implemented for late work. Field trips may be offered throughout the course. Art criticism, art history, aesthetics and studio work are all incorporated into the profile of this course. A final project worth 20% of the semester grade is assigned in lieu of a final exam.

PREREQUISITE: Drawing and Painting II

User Fee = \$20

### **0122 Honors Art II** - Grades 11, 12

1 credit (Weighted)

A student who is not ready to commit to taking Advanced Art may elect to take this course again for credit. Assignments and/or media change from year to year. Artwork done in this class can still be used toward a portfolio. A final project worth 20% of the semester grade is assigned in lieu of a final exam.

PREREQUISITE: Honors Art I.

User Fee = \$20

### **0126 Advanced Studio Art** - Grade 12

1 credit (Weighted)

This course is intended to assist students with the development and presentation of their portfolio to the College Boards for Advanced Placement in a secondary Studio Art Program. Individualized projects depending on portfolio needs will be co-coordinated. Students must be motivated and self-disciplined to adequately fulfill the requirements of the course as the majority of work is independently produced. A prolific sketchbook detailing conceptual development of artwork, including written analysis, is required. The facilitator of the course works in assiduous contact with each individual. Emphasis is placed on imaginative and creative handling of assignments. Working from life is required and expected. Photographing individual work for portfolio submission is required. Due dates are strictly set and significant grade penalties are implemented for late work. Students and their parents sign a contract agreeing to stated requirements of the course. It is the student's responsibility to discover the portfolio requirements for anticipated college choices. Students are required to complete a minimum of 14 assignments for the semester. The remaining 5 artworks required for portfolio submission are to be done independently. It is the responsibility of the student to work within the framework of AP limitations. Fees for the submission of portfolios are to be paid by the student.

PREREQUISITE: Honors Art I and 3-D Art.

User Fee = \$20

## **BUSINESS EDUCATION**

Please note: In all Business Education/Technology classes the idea of responsible, safe, and ethical Internet use and netiquette will be emphasized.

### **0240 Accounting I** - Grades 11, 12

1 credit

Accounting I gives the student an overall picture of a basic accounting system, as well as intensive drill and skill-building in each phase of work of an accountant. Accounting I increases business vocabulary and develops an understanding of business organization and procedures. It serves as a sound foundation of further study in the field of accounting or as an excellent background for secretarial students, office workers and future business owners. First-year Accounting presents all phases of elementary accounting principles, payrolls and document forms commonly used in business transactions. Each type of business transaction is thoroughly studied through the use of written exercises similar to those met by a vocational accountant.

\* Juniors may apply credit earned in Accounting I to the general elective graduation requirement.

\* Seniors may apply credit earned in Accounting I to the math or general elective graduation requirement.

User Fee = \$20

### **0245 Accounting II** - Grades 11, 12

1 credit

This course is a continuation of the first-year course, offering additional highly desirable general accounting procedures not covered in the first year course. Departmentalized accounting methods and systems for partnerships and corporations are included. Specific accounting principles and various methods of adjustments are presented involving "uncollectible accounts," and "depreciation of plant assets." Other accounting principles included are "accrued expenses," "accrued revenues" and the analysis and interpretation of financial statements.

PREREQUISITE: Accounting I.

\* Juniors may apply credit earned in Accounting II to the general elective graduation requirement.

\* Seniors may apply credit earned in Accounting II to the math or general elective graduation requirement.

User Fee = \$20

### **0255 Entrepreneurship and Small Business Management** - Grades 11, 12

1 credit

This course gives students the opportunity to research and plan for ownership/management of a business. The units of study associated with this course include: examining entrepreneurship as a career, sources of new business enterprise ideas, analyzing markets and studying competitors, planning and organizing a business enterprise, marketing products/services, obtaining finances, cash flow charts, preparing a financial plan, and developing a business plan. This course is recommended for any student planning to major in business in a two- or four-year college/university or any student planning to own his or her own business in the future.

### **0270 Personal and Business Law** - Grades 11, 12

1 credit

This course is designed for all students who are interested in understanding the legal world in which they live; it gives an excellent background for the understanding of practical legal concepts related to personal life and business applications. Topics to be discussed include: ethics and sources of the law, the court system, different types of laws, business organizations, contract, consumer, and property law, domestic relations law, wills and trusts, and computer law. Instructional methods will include: group discussions, speakers, lecture, projects, videos depicting current legal issues, and internet/computer activities. This course is designed to expand your vocabulary, increase your abilities to think critically and systematically, and recognize legal problems and issues.

### **90229 Personal Finance** - Grades 10, 11, 12

.5 credit

This course is designed for students who wish to learn how to manage their money. Students will learn how to become financially fit for life. Topics for instruction will include: personal finance, earning income, saving, spending and credit, and money management. Students will be working individually and in groups to complete projects. Students will utilize many Web 2.0 Tools throughout the course, in addition to the Microsoft Office Suite. Students will also work in conjunction with local financial institution personnel to gain additional knowledge of financial institutions through various classroom presentations.

### **90608 Sports and Entertainment Marketing** - Grades 9, 10, 11, 12

.5 credit

This is an introductory marketing course designed to incorporate business principles and procedures into the sports and entertainment industries. Students will learn to integrate the concepts of marketing, public relations, management, sales, distribution, and laws related to the sports and entertainment industries. Students will work individually and cooperatively to complete assignments and projects using the Internet and various computer technologies.

## **COMPUTER TECHNOLOGY**

### **0352 Computer Applications** - Grades 9, 10

1 credit

This course will provide students with experience in word processing, tables, drawing, graphing, spreadsheets, and presentation software using Microsoft Office. Desktop Publishing principles will also be introduced. Learning to use these skills and programs will benefit any student who encounters similar applications in the workforce or in college. Evaluative procedures will include projects, worksheets, and exams. Content presented in the Computer Application course benefits all students and is timely taken in 9<sup>th</sup> grade.

\*NOTE: Students, who have successfully completed Computer Applications I, should not enroll in this course.

### **1815 Advanced Spreadsheet and Database Management** - Grades 10, 11, 12

.5 credit

Advanced Spreadsheets and Database Management is a course designed to continue the spreadsheets concepts started in Computer Applications and introduce database management and data manipulations. Topics will include Pivot Tables, macros, look up functions, database design and tables, forms, queries, and reports.

PREREQUISITE: Computer Applications

**0986 Honors Programming** - Grades 10, 11, 12

1 credit (Weighted)

This academic programming course will emphasize programming in Java, which is the basis of the Advanced Placement test in computer, although this is not a complete AP course. Students will have extensive programming experience in the Java Language and will work with assigned applications of the language. Topics to be covered include computer terminology, functions, looping structures, data types, arrays, sorting, searching, files, and records. Evaluations will include worksheets, class work, projects, tests, and a final examination. This course would be especially valuable to students who plan to major in computer science, math, or science.

PREREQUISITE: Honors Geometry.

**0220 Computer Literacy** - Grades 9, 10

.5 credit

Computer Literacy is a course geared toward preparing students for computer usage in both the high school setting and the post secondary setting as well as usage in the workplace and at home. Topics will include computer history, Internet safety, Internet search techniques, Internet ethics and etiquette (Netiquette), and keyboarding.

**0247 Desktop Publishing** - Grades 9, 10, 11, 12

.5 credit

Desktop Publishing is a course designed to provide students opportunities to develop proficiency in using leading desktop publishing software in today's graphic design industry. Students will learn to prepare newsletters, class menus, CD covers, magazine and yearbook spreads, interactive eBook and more, practicing the basics of creativity, balance, design and layout. Projects will be real-world applications involving student choice and originality. Career opportunities in graphic design will also be explored. Note: This course is helpful to students who are interested in working with the school newspaper or yearbook.

PREREQUISITE: Computer Applications

**0225 Advanced Word** - Grades 9, 10, 11, 12

.5 credit

Advanced Word is a course that provides the student with advanced formatting and document processing skills. The course offers expanded content in personal and business letters, memos, tabulations, and reports. Advanced word processing proficiencies such as tables, charts, outlines, macros, mail merges, brochures, resume and interactive document content will be developed. All throughout the course, further improvement of keyboarding accuracy and speed is emphasized. Advanced smart web searching techniques, online safety, ethics and etiquette, and other 21<sup>st</sup> Century skills development will be integrated.

PREREQUISITE: Computer Applications

**0227 Digital Media** - Grades 9, 10, 11, 12

.5 credit

Digital Media is a business/computer course, which will expose students to leading graphics design software and photo editing software. Topics in graphics design will include basic graphics design, using color, working with type, and creating 3D graphics. Topics in photo editing will include basic photo corrections, photo editing principles, retouching and repairing photos, and adding special effects.

PREREQUISITE: Computer Applications

**0229 Emerging Technologies** - Grades 9, 10, 11, 12

.5 credit

Emerging Technologies is a course, which will expose students to new and exciting digital ways to collaborate and share knowledge on the Internet. Blogs, Wikis, Google Docs, and social bookmarking will be included. Digital storytelling in the form of online publishing, online presentations, podcasts, tutorials, and Google Earth tour destinations will also be presented. Responsible, safe, and ethical Internet use and netiquette will be emphasized. Students will learn to use and become familiar with 21<sup>st</sup> Century digital technologies that are becoming commonplace in K-12 and higher education institutions and the workplace.

PREREQUISITE: Computer Applications

**0231 Web Page Design** - Grades 9, 10, 11, 12

.5 credit

Web Page Design is a business/computer course designed to provide students opportunities to develop proficiency in using leading web page design software and also in developing web pages using HTML coding. Students will learn to prepare single web pages and multiple page web sites utilizing on-page, internal, and external links while practicing the basics of creativity, balance, design and layout. Projects will be real-world applications involving student choice and originality. Career opportunities in web page design will also be explored. Note: This course is helpful to students who are interested in continuing their education in computer related fields.

PREREQUISITE: Computer Applications

**FAMILY AND CONSUMER SCIENCES**

**0593 Basic Sewing Skills** - Grades 9, 10, 11, 12

.5 credit

This course is a prerequisite to all other clothing courses. It is designed to teach basic sewing skills. It includes operating a sewing machine, fabric selection and care, and construction of several basic projects. The supplies for these projects will be at the student's expense.

User Fee = \$10

**0595 Sew to Wear** - Grades 9, 10, 11, 12

.5 credit

This course focuses on construction of clothing items. Students will learn to use a pattern and adjust fit. They will complete all the components of a garment. This course may be repeated selecting increasingly difficult projects. Project supplies are at the student's expense.

PREREQUISITE: Basic Sewing Skills

User Fee = \$10

**0601 Basic Kitchen Skills** - Grades 9, 10, 11, 12

.5 credit

This is the prerequisite course for all other food-related classes. Students will gain basic knowledge of kitchen safety, tools and utensils, meal planning and consumerism. Students will have hands on-experiences in a lab setting implementing basic food preparation techniques. This class is a must for anyone wanting to be more comfortable in a kitchen.

User Fee = \$10

**0602 FUNDamentals of Food** - Grades 9, 10, 11, 12

.5 credit

This class will delve into the world of fruits, vegetables, grains, and eggs. Students will learn many aspects of these important foods, as well as work with them using basic preparation techniques in the foods labs. Students will see that nutrition can be delicious and fun.

PREREQUISITE: Basic Kitchen Skills

User Fee = \$10

**0604 Exploring Asia** - Grades 9, 10, 11, 12

.5 credit

This class is for those curious about food and culture in the Far East. Students will learn about countries like India, China, and Japan and what makes them unique. Students will get to use traditional tools and ingredients in the foods labs to prepare items from this far away place. Bring an open mind for this class, as we will challenge what you consider "normal".

PREREQUISITE: Basic Kitchen Skills

User Fee = \$10

**0603 European & Mediterranean Cuisine** - Grades 9,10,11,12

.5 credit

This class will explore different aspects of Europe and the Mediterranean from a culinary perspective. Students will see how many things can influence the foods people eat in other parts of the world. Students will use traditional techniques to prepare foods from these regions in the foods labs. Old World charm and tradition awaits you.

PREREQUISITE: Basic Kitchen Skills

User Fee = \$10

**0605 Food as Art** - Grade 11, 12

.5 credit

This is a very hands-on class in which food becomes the medium for our creative focus. Students will learn various techniques for turning everyday food items into works of art. We will work with items like gingerbread, pressed sugar, decorative eggs, latté art and more. If you like to play with your food, this is the class for you. Project supplies are at the student's expense.

PREREQUISITE: Basic Kitchen Skills,, FUNdamentals of Food

User Fee = \$10

**0599 Interior Design** - Grades 9, 10, 11, 12

.5 credit

This course focuses primarily on the elements and the principles of design as they are used in decorating. Color in the home is studied in depth. Architectural symbols, floor plans, furniture arrangement, window styles, and traffic flow will all be addressed. Students will assemble decorating plans for a dwelling. Project supplies are at the student's expense.

**0618 The Family and Family Finance** - Grades 9, 10, 11, 12

.5 credit

What would you like for yourself in the future? In this class you will practice setting goals and developing plans to achieve them. Students will participate in a care simulation; practice using financial calculators, as well as taking an item they already have and either repair, reuse, or recycle it. They will also prepare a simple meal that is within a budget.

**0620 The Young Child** - Grades 9, 10, 11, 12

.5 credit

Scientists have discovered what young children have always known; nursery school is where it is. Have you ever watched a small child play? The seriousness that they bring to their play matches the serious work being done by their brains. This course explores that development from the prenatal period until the child is ready to go to elementary school. There will be a "baby" simulation experience and a weeklong nursery school experience.

**0663 The School Age Child** - Grades 11,12

.5 Credit

Classroom bustle and playground games, not to mention team sports and best friends! The world of the school age child is both exciting and complicated. In this class, the students will learn about the issues surrounding the growth, development, and education of the school age child. The student will also act as an aide for an elementary school teacher, once a cycle week. The student is responsible for providing his or her own transportation to the elementary school.

## **LANGUAGE ARTS**

**Note: Students in grade 9, 10 and 11 are required to schedule a “Communication Skills” (American and British Literature are considered Communication Skills classes) class to satisfy their English/Language Arts credit requirement. The exception is a student with an IEP English/Reading class. All other courses are electives.**

### **0702 Honors Communication Skills** - Grade 9

1 credit

In a highly competitive setting, this course provides in-depth academic study of the writing process, literature, speaking, grammar and vocabulary. This broad spectrum is offered in a manner that gives the honors student a theoretical and practical foundation for future Language Arts study. Students in this course must demonstrate high motivation for learning in the Language Arts field. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

### **0703 College Prep. Communication Skills** - Grade 9

1 credit

This course provides in-depth academic level coverage of all areas useful in improving communication skills: grammar, vocabulary, writing, literature, speaking, reading, and listening. This broad spectrum is offered in a manner that gives the academic student a theoretical and practical foundation for future studies in Language Arts. The student in this course must demonstrate high motivation for learning in the Language Arts field.

### **0805 Fundamentals of Literacy 9** - Grade 9

1 credit

This course is **required** for students who have scored non-proficient on district reading assessments and/or who have scored non-proficient on the grade 8 PSSA reading assessment. The course is designed for students who have additional learning needs that require more intensive reading intervention. The student will be taught reading strategies to improve critical thinking, reading fluency, comprehension, and vocabulary knowledge. Resources include both fiction and non-fiction texts along with an independent reading component and writing component that focuses on literature responses. Students assigned to Fundamentals of Literacy will also need to schedule a Communication Skills class. Students will be utilizing Scientific Learning’s *Fast ForWord* software on-line computer course. PLACEMENT CRITERIA: PSSA Reading Assessment; Princeton Review Reading Assessment

### **0709 Honors Communication Skills** - Grade 10

1 credit

This course continues in-depth academic level coverage of all Language Arts areas: writing, literature, speaking, vocabulary, and grammar. Tenth grade honors students will also be introduced to formal research. This broad spectrum is offered in an intensive manner that continues to offer the honors student a theoretical and practical foundation for high-level Language Arts study. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: CP Comm. Skills 9 or Honors Comm. Skills 9

### **0707 College Prep. Communication Skills** - Grade 10

1 credit

This course continues in-depth academic level coverage of all areas useful in improving communication skills: grammar, vocabulary, writing, literature, speaking, reading, and listening. Tenth grade College Prep. students will also be introduced to formal research. This broad spectrum is offered in a manner that gives the academic student a theoretical and practical foundation for future studies in Language Arts.

PREREQUISITE: C.P. Comm. Skills 9

### **0810 Fundamentals of Literacy 10** - Grades 10

1 credit

This course is **required** for students who have scored non-proficient on district reading assessments and/or who have scored non-proficient on the grade 8 PSSA reading assessment. The course is designed for students who have additional learning needs that require more intensive reading intervention. The student will be taught reading strategies to improve critical thinking, reading fluency, comprehension, and vocabulary knowledge. Resources include both fiction and non-fiction texts along with an independent reading component and writing component that focuses on literature responses. Students assigned to Fundamentals of Literacy will also need to schedule a Communication Skills class. Students will be utilizing Scientific Learning's *Fast ForWord* software on-line computer course. PLACEMENT CRITERIA: PSSA Reading Assessment;

### **0713 Honors American Literature** - Grade 11

(Counts towards a Communication Skills class)

1 credit (Weighted)

This course is designed to appeal to the high-level reader. It will include a historical study of American Literature. Formal literary analyses will be integrated into the curriculum, building on grammar, vocabulary and writing skills emphasized in Honors Communication Skills 10. A formal research project and speaking activities will also be included. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: C.P. Comm. Skills 10 or Honors Comm. Skills 10

### **0710 College Prep. American Literature** - Grade 11

(Counts towards a Communication Skills class)

1 credit

This course is designed to appeal to the average reader. It will include a chronological and historical study of American Literature. Formal exposition papers will be integrated into the curriculum, building on grammar, vocabulary, and writing skills emphasized in College Prep. Communication Skills 10. A five to seven page formal research project and speaking activities will be included.

PREREQUISITE: C.P. Comm. Skills 10

### **0711 Communication Skills** - Grade 11

1 credit

This course fully reviews and expands upon basic writing skills, reading skills, and speaking skills, and then applies them to activities and projects that prepare students for the PSSA and various work world applications. There will be a focus on cooperative learning, technology, and career preparation. Assessment will be in the form of a writing portfolio, tests and quizzes, participation, and presentations.

### **90262 Fundamentals of Literacy 11** - Grades 11

1 credit

This course is **required** for students who have scored non-proficient on district reading assessments and/or who have scored non-proficient on the grade 8 PSSA reading assessment. The course is designed for students who have additional learning needs that require more intensive reading intervention. The student will be taught reading strategies to improve critical thinking, reading fluency, comprehension, and vocabulary knowledge. Resources include both fiction and non-fiction texts along with an independent reading component and writing component that focuses on literature responses. Students assigned to Fundamentals of Literacy will also need to schedule a Communication Skills class. Students will be utilizing Scientific Learning's *Fast ForWord* software on-line computer course. PLACEMENT CRITERIA: PSSA Reading Assessment;

### **0725 Advanced Placement English Language and Composition** - Grades 11, 12

1.5 credit (Weighted)

In an advanced writing workshop setting, students will address topics and share ideas through a variety of challenging reading and writing experiences. Students will build a writing portfolio, which includes narrative, descriptive, expository, and persuasive pieces. This course uses college level literature study as a springboard into these modes of writing. Ongoing assessment of this portfolio will constitute a large portion of a student's grade. This course provides the opportunity for students to receive college credit by taking the standardized A.P. Test at the end of the course. Students are expected to register for the A.P. Exam in the spring. Fees for the examination are to be paid by the student.

PREREQUISITE: Honor Comm. Skills 10 or Honors American Lit.

**0721 Honors British Literature** - Grade 12

1 credit (Weighted)

This course is suggested for highly motivated students who have met with success in previous honors level Language Arts courses. Students will study the major periods in the history of British Literature focusing on a variety of authors and genres. In addition to the intense study of literature, students will also write a research paper reviewing the elements of research, documentation, and the defense of a thesis in written form. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: C.P. Comm. Skills 11 or Honors American Lit.

**0720 College Prep. British Literature** - Grade 12

1 credit

Major units of study in this course will familiarize students with various literary genres and British authors. A chronological and historical approach will guide students through the major literary periods of British Literature. In addition to the reading, students will expand arranging, evaluating and presenting information. A five to seven page research paper to practice the techniques of research, documenting sources, formal research project, and speaking activities will be included.

PREREQUISITE: C.P. Comm. Skills 11 or Honors American Lit. 11

**6030 Senior English/Language Arts Standards Course** - Grade 12

1 credit

English/Language Art Standards is for seniors who do not score proficient or advanced on the 11<sup>th</sup> grade Reading PSSA. This course will review all standards covered on the 11<sup>th</sup> grade Reading PSSA. Students must pass this course and/or the PSSA retest in order to graduate from Palmyra High School. Evaluation is based on quizzes, tests, and projects.

PREREQUISITE: Standards English/Language Arts is offered by placement as determined by a student's 11<sup>th</sup> grade PSSA result. Students who do not test proficient will be assigned to the standards class regardless of other English/Language Arts requests. No parent override will be accepted.

**0727 Speech and Debate** - Grades 11, 12

1 credit

This course is designed for students who want the opportunity to specialize in public speaking and formal debate. Students should expect to learn the fundamentals of drafting and delivering formal speeches and less-formal discussions. They will study the history of debate and oration and learn how to organize, moderate, and participate in a formal debate. Students will also learn the rhetorical and stylistic strategies that apply to the spoken word and in writing. Assessment will be in the form of tests and quizzes, presentations, participation, and writing assignments.

PREREQUISITE: All 11th grade students must additionally enroll in a Comm. Skills 11 class.

**0842 Journalism I** - Grades 10, 11, 12

1 credit

This is a comprehensive course that will cover the basics of news, feature, and editorial writing as well as associated skills of interviewing, editing, and headlining. It will also cover the history of American journalism, the privileges and responsibilities of a free press, page layout and related use of graphics and photography, and the design and promotion of advertising.

**0845 Journalism II** - Grades 11, 12

1 credit

The chief function of this course is to produce the *Cougar Chronicle*. Staffers will be responsible for generating and covering stories. They will do all writing, editing, necessary photography (camera lab work), layout, graphics, ad sales, and marketing and distribution. Additional course work will include polishing of interviewing skills, a study of press law, review of the rights and privileges of a free press, an overview of broadcast news, and discussion of trends in American news reporting. This course may be repeated for credit in the same academic year provided the student passes with a minimum grade of 70%.

**1700 Broadcast Journalism** - Grades 12

1 credit

Broadcast Journalism involves the writing of scripts, conducting interviews, electronic news gathering, as well as writing mini documentaries, commercials, and public service announcements. As the course will air weekly via closed circuit TV, presentation skills, techniques for building a show, and production of that show will also be covered. The show will air weekly from the fully equipped TV studio during a designated time period.

**0851 Sports Literature** - Grades 10, 11, 12

1 credit

Sports Literature will offer an encompassing view of the way in which sports influences our society. This course will cover a variety of topics, themes, types of characters and philosophies. The aim of the course will be to analyze how sports and literature affect our lives outside the classroom. Elements such as perseverance, overcoming adversity, teamwork, goal-setting, reaching success and coaching will all be highlighted. This course will be heavily reading and writing based.

**0853 Project Write** - Grades 10, 11, 12

1 credit

This course will use a workshop approach to explore all modes of writing: expository, narrative and persuasive. There will be a focus on the fundamentals of the writing process with specific emphasis on revision. Students will develop a writing portfolio that will include a collection of creative and academic pieces. This course is suggested for students who want to expand their writing skills to meet college level standards. PREREQUISITE: CP or Honors level Comm. Skills class.

**90281 Outdoor Adventure Literature** - Grades 10, 11, 12

1 credit

This course is designed for students with an interest in the outdoors. The course will include both fiction and non-fiction reading and writing. Students will read and write about activities including exploration (both land and sea), survival, mountaineering, and nature.

**MATHEMATICS**

*A graphing calculator will be used in all mathematics courses. Although a graphing calculator is required in certain math courses, it is strongly recommended that all students purchase a graphing calculator prior to taking their 9<sup>th</sup> grade math course. A calculator from the T83/TI-84 series is recommended. This calculator would then be used for all subsequent math courses taken in the High School. Instruction will be given on the appropriate uses of the graphing calculator in each course.*

*A/B math courses must be taken in the same school year.*

**0940 Algebra IA** - Grade 9

1 credit

Algebra IA is designed for those students who need a thorough course in Algebra I, but at a slower pace. Topics include: Real Numbers, Linear Equations, Functions and Linear Inequalities. Evaluation procedures will include testing, projects, and final examinations. Students completing this course must take the sequel, Algebra IB.

**0942 Algebra IB** - Grade 9

1 credit

This course is the sequel to Algebra IA. Topics include: Systems of Equations and Inequalities, Exponents and Exponential Functions, Polynomials and Factoring, Quadratic Equations and Functions, Rational Equations and Functions, and Probability and Data Analysis. Evaluation procedures will include testing, projects, and final examinations.

PREREQUISITE: Algebra IA

**6040 College Prep. Algebra IA** - Grade 9

1 credit

This academic course is designed for those students with a good understanding of all arithmetic skills. This course is the first of many academic math courses the student should take in high school. The content of this course includes such units as operations with polynomials, factoring, solving equations and inequalities, solving applied word problems, graphing, and irrational numbers. Evaluation procedures will include testing, projects, and a final examination. Students completing this course must take the sequel, CP Algebra IB.

PREREQUISITE: Pre-Algebra

**6041 College Prep. Algebra IB** - Grade 9

1 credit

This course is the sequel to CP Algebra IA. CP Algebra IB will move at a faster pace and go more in depth than Algebra IB. Topics include: Systems of Equations and Inequalities, Exponents and Exponential Functions, Polynomials and Factoring, Quadratic Equations and Functions, Rational Equations and Functions, and Probability and Data Analysis.

Evaluation procedures will include testing, projects, and a final examination.

PREREQUISITE: CP Algebra 1A

**0935 Geometry A** - Grade 10

1 credit

This course is essential for any student planning on a technical career; it is designed for those students who have successfully completed Algebra IA and Algebra IB. The content in this course will include the Basic Fundamentals of Geometry, Measurement, Segment and Angle Relationships, Parallel and Perpendicular Lines, The Pythagorean Theorem, Triangle Relationships and Congruent Triangles. This course is not proof, but instead, application oriented. Students completing this course must take the sequel; Geometry B. Evaluation will include testing, projects, and final examination.

PREREQUISITE: Algebra IB

**0930 Geometry B** - Grade 10

1 credit

This course is the sequel to Geometry A. This course is essential for any student planning on a technical career; it is designed for those students who have successfully completed Geometry A. The content in this course will include Similarity, Quadrilaterals, Polygons, Area, Perimeter, Surface Area and Volume, Right Triangle Trigonometry, Circles and Basic Probability and Statistics. This course is not proof, but instead, application oriented. Evaluation will include testing, projects, and final examination.

PREREQUISITE: Geometry A

**6042 College Prep. Geometry A** - Grades 9, 10

1 credit

This academic course is the study of Euclidean Geometry, the study of geometric shapes through a deductive system built on definitions, postulates, and theorems. This course is designed to develop logical thinking through the study of proofs and problem solving. This course is generally a college entrance requirement. Evaluation procedures will include testing, projects, and a final examination. Students completing this course must take the sequel, CP Geometry B.

PREREQUISITE: 8<sup>th</sup> grade Algebra I or CP Algebra IB or Alg. 1B

**6043 College Prep. Geometry B** - Grades 9, 10

1 credit

This course is the sequel to College Prep Geometry A. This academic course will continue the study of Euclidean Geometry, the study of geometric shapes through a deductive system built on definitions, postulates, and theorems. Evaluation procedures will include testing, projects, and a final examination.

PREREQUISITE: CP Geometry A

**0908 Honors Geometry** - Grade 9, 10

1 credit

This academic course is designed for the highly motivated and competent math student. The student that experienced a lot of success in Algebra I and who truly enjoys mathematics would select this course. The materials covered in this course are all topics covered in College Prep. Geometry, but at an advanced level. Evaluation procedures will include testing, projects, and a final examination. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course. A graphing calculator is encouraged, but not required, for this course.

PREREQUISITE: 9<sup>th</sup> Grade CP Algebra IB or Honors Algebra II

**0932 Algebra IIA** - Grades 11, 12

1 credit

Algebra IIA is designed for those students who need a thorough course in Algebra II, but at a slower pace. Topics include: Basic tools for Algebra I, Linear Equations and Functions, Systems of Linear Equations, Inequalities and Absolute Values and their graphs, Quadratic Functions and Factoring and Polynomials and Polynomial Functions and their graphs. Evaluation procedures will include testing, projects, and final examinations. Students completing this course must take the sequel, Algebra IIB. A graphing calculator is highly recommended for this course.

PREREQUISITE: Geometry B or CP Geometry B

**0933 Algebra IIB** - Grades 11, 12

1 credit

This course is the sequel to Algebra IIA. Topics include Powers, Roots and Radicals, Exponential and Logarithmic Functions, Rational Equations and Functions, Data Analysis and Probability, Matrices and Sequences and Series. Evaluation procedures will include testing, projects, and final examinations. A graphing calculator is highly recommended for this course.

PREREQUISITE: Algebra IIA.

**6044 College Prep. Algebra IIA** - Grades 9, 10, 11

1 credit

This academic course is designed for those students with a good understanding of the basic concepts of Algebra I and Geometry. This course will develop further the basic concepts studied in Algebra I, plus additional units on the conics parts, exponential and logarithmic functions, and complex numbers. This course is generally a college entrance requirement. Evaluation procedures will include testing, projects, and a final examination. A graphing calculator is required for this course. Students completing this course must take the sequel, CP Algebra IIB.

PREREQUISITE: Geometry B or CP Geometry B

**6045 College Prep. Algebra IIB** - Grades 9, 10, 11

1 credit

This course is the sequel to College Prep Algebra 2A. This academic course is designed for those students with a good understanding of the basic concepts of Algebra I and Geometry. This course will continue to develop concepts studied in College Prep Algebra IIA. This course is generally a college entrance requirement. Evaluation procedures will include testing, projects, and a final examination. A graphing calculator is required for this course.

PREREQUISITE: CP Algebra IIA

**0903 Honors Algebra II** - Grades 9, 10

1 credit

This academic course is designed for the highly motivated and competent math student. The material covered in this course would be all the topics included in College Prep Algebra IIA/B, plus additional units on sequences and series, matrices and determinants, and probability and statistics. Evaluation procedures will include testing, projects, and a final examination. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course. A graphing calculator is required.

PREREQUISITE: 8<sup>th</sup> grade Alg. I or CP Geometry B or Honors Geometry

**0907 College Prep. Finite Mathematics** - Grades 11, 12

1 credit

This course is designed to prepare students for college level mathematics, to develop the ability to reason with quantitative information in order to prepare for a career, and to develop critical thinking and quantitative reasoning skills needed to understand major issues in life. Topics will include applications of linear equations, matrices, linear programming, finance, sets and counting techniques, introductory probability and statistics, and logic. A graphing calculator is required for this course.

PREREQUISITE: CP Algebra IIB or Honors Algebra II and Honors or CP Geometry

**0910 Honors Finite Mathematics** - Grades 11, 12

1 credit (weighted)

This academic course is designed for the highly motivated and competent math student. The student that experienced a lot of success in Honors Algebra II and who truly enjoys mathematics would select this course. The material covered in this course would be the units included in College Prep Finite Mathematics, plus additional topics in Linear Programming, Probability, Statistics, and Logic. Application of mathematics principles will be the focus of this course. A graphing calculator is required for this course.

PREREQUISITE: Honors Algebra II and Honors Geometry

**0912 College Prep. Statistics** - Grades 11, 12

1 credit

This course is designed to prepare students for college level Statistics. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to Exploring Data, Planning a Study, and Probability. Evaluation procedures will include testing, projects, and a final examination. A graphing calculator is required for this course.

PREREQUISITE: CP Algebra II or Honors Algebra II

**0905 College Prep. Pre-Calculus** - Grades 10, 11, 12

1 credit

This course includes two major areas of study: Trigonometry and topics in Advanced Mathematics. In Trigonometry, the student will study the trigonometric functions and use them to prove identities, solve equations and applied triangle problems. Topics to be studied in Advanced Mathematics are linear functions and relations, theory of equations, matrices and vectors, sequences and series, and probability. This course will enhance the ability to be successful in Calculus. Evaluation procedures will include testing, projects, and final examinations. A graphing calculator is required for this course.

PREREQUISITE: CP Algebra II or Honors Algebra II & Honors Geometry

**0906 Honors Pre-Calculus** - Grades 10, 11, 12

1.0 credit (Weighted)

This course is designed for the highly motivated and competent math student. The student that experienced a lot of success in Honors Algebra II, and who truly enjoys mathematics, would select this course. The material covered in this course are all the topics included in College Pre-Calculus, plus additional units on inverses of trigonometric and circular functions, mathematical applications of trigonometric and circular functions, descriptive statistics, and an introduction to Calculus. Evaluation procedures will include testing, projects, and final examinations. A graphing calculator is required for this course. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: CP Algebra II, Honors Algebra II or CP Finite Math

**0917 Advanced Placement Statistics** - Grades 11, 12

1.5 credit (Weighted)

This course is designed for the highly motivated and competent math student who truly enjoys mathematics. The purpose of this course 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: Exploring Data, Planning a Study, Anticipating Patterns, and Statistical Inference. Evaluation procedures will include testing, projects, and a final examination. This course provides the opportunity for students to receive college credit by taking the standardized AP Test at the end of the course. Students are expected to register for the AP exam in the spring. Fees for the examination are to be paid by the student. A graphing calculator is required for this course. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Algebra II or CP/Honors Pre-Calculus or CP Algebra IIB

### **0925 Advanced Placement Calculus** - Grades 11, 12

1.5 credit (Weighted)

AP Calculus is designed for the student considering a career that requires mastery in advanced mathematics. Material covered in this class consists of information covered in a Level I college calculus class. This course provides the opportunity for students to receive college credit by taking the standardized AP test at the end of the course. Students are expected to register for the AP exam in the spring. Fees for the examination are to be paid by the student. A graphing calculator is required for this course. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Pre-Calculus or CP Pre-Calculus

### **6046 Senior Math Standards Course** - Grade 12

1 credit

Math Standards is for seniors who do not score proficient or advanced on the 11<sup>th</sup> grade math PSSA. This course will review all standards covered on the 11<sup>th</sup> grade math PSSA. These standards include Numbers and Operations, Measurement, Geometry, Algebraic Concepts, and Data and Probability. Students must pass this course and/or the PSSA retest in order to graduate from Palmyra High School. Evaluation is based on quizzes, tests, and projects.

PREREQUISITE: Standards Math is offered by placement as determined by a student's 11<sup>th</sup> grade PSSA result. Students who do not test proficient will be assigned to the standards class regardless of other math requests. No parent override request will be accepted.

## **MUSIC**

Note: Participation in Band, Chorus and Orchestra requires a year-long commitment every first period. Students can, however, participate in any or all the music performing groups. Exceptions will be granted through the principal only.

### **1000 Band** - Grades 9, 10, 11, 12

2 credits, 1 credit or .33 credits

The band is an ensemble course that rehearses as both a concert and a marching ensemble. The band participates at football games, parades and exhibition shows, as well as stage concerts. Extra practices are scheduled as needed. Attendance is a requirement of the course for the duration of all functions including band camp, all concerts, and community events. From this group, individuals may audition for Jazz Ensemble, which is a select group, and rehearses independent of the regular band schedule. All members are required to perform playing tests for seating and assessment throughout the year.

PREREQUISITE: Member of 8<sup>th</sup> grade concert band or previous participation in high school band.

### **1002 Colorguard** - Grades 9, 10, 11, 12

.5 credit

Colorguard is a subsection of the Marching Band that provides visual impact to the field show. Students who enroll in color guard are expected to participate in summer rehearsals and all performances where the Marching Band is present. This course will be offered during Q1 only. Colorguard members may also be enrolled in Band, Mixed Chorus, and Orchestra simultaneously.

PREREQUISITE: Successful demonstration of basics through introductory rehearsals/audition.

### **1055 Mixed Chorus** - Grades 9, 10, 11, 12

2 credits, 1 credit, or .33 credits

In this non-audition ensemble, students will gain a general knowledge and experience of how to be a successful choral musician. Students will be graded on participation, singing alone and with others, and attendance of at least two concerts throughout the year.

PREREQUISITE: Member of 8<sup>th</sup> grade chorus, previous participation in high school chorus or approval by Mr. Myers.

### **1021 Music History** - Grades 9,10,11,12

.5 credit

Students will investigate the development of western music and relate musical structure and content with expressions of mankind through societal development. The elements of music, rhythm, melody, and harmony, as well as the relationship of music to other art forms (dance, architecture, visual arts, literature, and drama), will be explored. A basic understanding and appreciation of musical values in composition, regardless of personal likes or preferences will be stressed.

**1023 Jazz and Popular Music** - Grades 9,10,11,12

.5 credit

Jazz and Popular Music will explore a variety of styles of American popular music. Additional studies will include the music industry and elements of music. The elements of music, rhythm, melody, and harmony, as well as the relationship of music to other art forms (dance, architecture, visual arts, literature, and drama), will be explored. A basic understanding and appreciation of musical values in composition, regardless of personal likes or preferences will be stressed. Formerly Music Appreciation II, no prerequisite.

**1041 Music Theory I** - Grades 10, 11, 12

1 credit

Music Theory is a course designed to teach the fundamentals of music structure, composition, and ear training. The course is a good choice for students who might be considering music as a career, as well as students who are interested in learning about the different facets of music composition. Included in the course are various opportunities in arranging and original musical composition, as well as learning the skills of taking rhythmic and melodic dictation.

**1051 Music Theory II** - Grades 10, 11, 12

1 credit

A second level course in music theory. Students will learn how to compose and analyze musical forms, complex chords, modulation, and other advanced theory topics. Extensive work will be done using music notation software. Students should be open to singing in front of their peers and in small groups as ear training is a fundamental aspect of this course. Included in the course are various opportunities in arranging and original musical composition as well as learning the skills of taking rhythmic and melodic dictation. PREREQUISITE: Music Theory 1.

**0144 Guitar Performance** - Grades 9, 10, 11, 12

.5 credit

A course designed to help students develop their musical potential through the study of guitar. Emphasis will be placed on posture, tone production, basic technique, reading music notation, and composition. No previous music experience is necessary, however daily practice is required.

**1044 Piano Performance** - Grades 9, 10, 11, 12

.5 credit

A beginning piano course designed for students with little or no previous piano experience. Instruction will be delivered in a group setting with materials designed to meet the needs of various ability levels. Emphasis will be placed on posture and hand position, reading music, reading chord charts, solo playing, duets and group playing, basic music theory, and composition with computer notation programs. No previous music experience is necessary, however daily practice is required.

**1046 Solo Literature and Audition Preparation** - Grades 10, 11, 12

.5 credit

A primarily self-directed course designed for current band, orchestra, or choir students wishing to pursue advanced study on their instrument or voice. Participation in county and/or district auditions is encouraged. In-class performances will take place regularly for both the teacher and peers.

**1060 Orchestra** - Grades 9, 10, 11, 12

2 credits, 1 credit or .5 credits

Membership is by selection. This is a performance group that performs in a Pops Concert, Holiday Concert, and Spring Concert. Participation in all scheduled concerts is a course requirement. Sectional rehearsals are scheduled on a rotational basis. Students will audition for their placement in each section and perform playing tests every marking period. Students may also audition to be part of a chamber group that meets outside of school.

## **SCIENCE**

### **1103 Physical Science** - Grade 9

1 credit

This course is designed to provide students a background in physics and chemistry. Among the topics covered in the course are: forces, motion, work, energy, electricity, matter, chemical nomenclature and chemical reactions. The course evaluations are primarily based on tests, quizzes, homework, laboratory activities, and projects.

### **1105 College Prep. Physical Science** - Grade 9

1 credit

This academic course is designed for students who plan to attend college or technical school. It provides both descriptive and mathematical approaches to the study of physics and chemistry with an emphasis on application of knowledge. Among the topics covered in the course are: forces, work and simple machines, energy, electricity, matter classification, chemical nomenclature and chemical reactions. The course evaluations are primarily based on tests, quizzes, homework, laboratory activities, and projects.

### **1107 Honors Physical Science** - Grade 9

1 credit

This demanding course is designed for motivated students who plan to attend college. It is designed for the student who wants to be challenged. As with CP Physical Science, it provides both descriptive and mathematical approaches to the study of physics and chemistry with an emphasis on application of knowledge. The pace will be faster, more material will be covered, and it will be covered in greater detail than in the CP course. There will also be more opportunities for enrichment. The course evaluations are primarily based on tests, quizzes, homework, laboratory activities, and projects. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

### **1147 Biology** - Grade 9, 10

1 credit

This course will cover biochemistry, cellular structure and energy, cellular membrane and transport, cellular division, nucleic acids and protein synthesis, genetics, biotechnology, evolution, ecological structure, and ecological relationships. In addition to theoretical work, laboratory experiences will be provided.

PREREQUISITE: Physical Science

### **1148 College Prep. Biology** - Grade 9, 10

1 credit

This course is designed to provide college-bound students with a background in biology. This academic course will cover biochemistry, cellular structure and energy, cellular membrane and transport, cellular division, nucleic acids and protein synthesis, genetics, biotechnology, evolution, ecological structure, and ecological relationships. In addition to theoretical work, laboratory experiences will be provided.

PREREQUISITE: CP Physical Science

### **1126 Honors Biology** - Grade 9, 10

1 credit

This demanding course is designed for motivated students who plan to attend college. It is designed to provide a background in biology for the students who want to be challenged. It will cover biochemistry, cellular structure and energy, cellular membrane and transport, cellular division, nucleic acids and protein synthesis, genetics, biotechnology, evolution, ecological structure, and ecological relationships. In addition to theoretical work, laboratory experiences will be provided. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Physical Science

### **1204 Advanced Placement Biology** - Grades 11, 12

1.5 credits (Weighted)

Advanced Biology is a rigorous college level course. This course differs from Honors Biology in the range and depth of topics, type of laboratory exercises performed, and type of textbook used. Topics of study will include chemistry of life, cells, cellular energetics, heredity, molecular genetics, and evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. This course provides the opportunity for students to receive college credit by taking the standardized AP test at the end of the course. Students are expected to register for the AP exam in the spring. Fees for the examination are to be paid by the student. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Biology and Honors Chemistry

User Fee = \$20

### **1150 Integrated Science** - Grade 11, 12

1 credit

Integrated Science is designed for non-college bound students and provides an overview of various branches of science. Students will complete units in chemistry, physics, earth and space science, environmental science, and biology. A major goal of the course is to apply concepts and skills to real-life scenarios. The course evaluations are primarily based on tests, quizzes, class work, laboratory activities, and projects.

### **1153 Chemistry** - Grades 10, 11, 12

1 credit

This course is designed to provide students a familiarity with concepts and principles of chemistry through units, which relate chemistry to real world situations. This course is not intended for students who plan on attending post-secondary education and/or are interested in health related fields (College Prep or Honors Chemistry is recommended for these students). The emphasis will be more qualitative than mathematical. Several large projects as well as traditional assessments and labs will be the primary method of evaluation during the course.

PREREQUISITE: Biology

### **1152 College Prep. Chemistry** - Grades 10, 11, 12

1 credit

This course is designed to provide college-bound students with a background in chemistry. It provides both descriptive and mathematical approaches to the study of chemistry. Students will be introduced to the vocabulary and mathematics of symbols, formulas and equations and identify reaction types. In addition, they will be exposed to thermo chemistry, atomic structure, chemical bonding and the behavior of gases.

PREREQUISITE: CP Biology.

### **1154 Honors Chemistry** - Grades 10, 11, 12

1 credit (Weighted)

This academic course is designed to provide motivated students with a background in chemistry. As with CP Chemistry, it provides both descriptive and mathematical approaches to the study of chemistry, but the pace will be faster, more material will be covered, and it will be covered in greater depth. There will be more opportunities for enrichment. Students will work with elements and compounds, atomic structures, chemical bonding, molecular structures, study the behavior of gases, and write balanced equations. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Biology.

### **1214 Advanced Placement Chemistry** - Grades 11, 12

1.5 credits (Weighted)

Advanced Chemistry is a rigorous college level course. Students will complete an in-depth study of atomic theory, chemical bonding, molecular geometry, thermodynamics, solutions, reaction types, stoichiometry, nuclear chemistry, kinetics, organic chemistry, and electrochemistry. Students will also complete numerous laboratory experiments, many of which will require formal laboratory reports. This course provides the opportunity for students to receive college credit by taking the standardized AP test at the end of the course. Students are expected to register for the AP exam in the spring. Fees for the examination are to be paid by the student. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Chemistry.

User Fee = \$20

### **1108 College Prep. Physics** - Grades 10, 11, 12

1 credit

This course is recommended to any student planning to attend college. In this course, students will gain a background in motion, forces, energy, wave behavior, electricity, magnetism, heat and studies of the atom. A major goal of the course is to help students improve their problem-solving skills. Laboratory activities are designed to develop skills in obtaining, analyzing, and interpreting data. Evaluations in the course are made on the basis of tests, quizzes, homework, and laboratory activities.

PREREQUISITE: CP Chemistry and CP Algebra II.

### **1165 and 1166 Advanced Placement Physics** - Grades 11, 12

1.5 credits (Weighted)

Advanced Physics is a rigorous college level course. This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry. Topics of study include Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students will also complete numerous laboratory experiments, some of which will require formal laboratory reports. This course provides the opportunity for students to receive college credit by taking the standardized AP test at the end of the course. Students are expected to register for the AP exam in the spring. Fees for the examination are to be paid by the student. All students who enroll in this class must complete a preliminary assignment in order to be prepared for the start of this course.

PREREQUISITE: Honors Chemistry, CP Physics and Honors Algebra II.

User Fee = \$20

### **1134 Earth and Space Science** - Grades 10, 11, 12

1 credit

This course will involve students in a general discussion of geology, astronomy, oceanography and meteorology. As an elective, students taking this course should have an interest in the earth and our environment. Among the topics covered in this course are rocks and minerals, volcanoes and earthquakes, plate tectonics, the solar system and planets, and constellations. Evaluations will be based on homework, tests and quizzes, oral and written reports, laboratory activities and write-ups, and worksheet exercises.

### **1135 College Prep. Earth and Space Science** - Grades 10, 11, 12

1 credit

This course will involve students in a detailed examination of geology, oceanography, meteorology, and paleontology as well as astronomy. As an elective, students taking this course should have an interest in the earth and our surrounding universe. Among the topics covered in this course are rock and mineral classification, volcanoes and earthquakes, plate tectonics, as well as motion of celestial bodies, historical astronomy, stars, and stellar evolution. Evaluations will be based on homework, tests and quizzes, oral and written reports, laboratory activities and write-ups, and worksheet exercises. This course is intended to prepare students for post-high school studies in the natural sciences. Students should have completed Chemistry or be taking it concurrently with this course.

PREREQUISITE: CP Science class.

### **1140 Environmental Science** - Grades 10, 11, 12

1 credit

This course is designed for students who want to learn about the cause and effect relationship between humans and the environment. When applicable, this interdisciplinary course blends traditional theory with real world field experiences. Activities will include water quality assessments of streams, lakes and ponds; orienteering; and soil analysis. The goal is to provide students with a background in the scientific principles and concepts in the classroom that are then examined with field experiences. Students will gain a better understanding of their environment and its complexities. In addition to the traditional class work and field experiences, students will participate in a variety of laboratory activities and projects.

### **1139 College Prep. Environmental Science** - Grades 10, 11, 12

1 credit

This interdisciplinary course blends traditional academic theory with several real world application field experiences. Students will measure a variety of parameters in terrestrial and aquatic systems including woodlands, grasslands, lakes, ponds and streams. Activities will include water quality assessments of streams, lakes and ponds; orienteering; and soil analysis. The goal is to provide students with a background in the scientific principles and concepts in the classroom that are then examined with field experiences. Students will gain a better understanding of their environment and its complexities. In addition to the traditional class work and field experiences, students will participate in a variety of laboratory activities and projects.

PREREQUISITE: CP Chemistry

### **1142 Environmental Science** - Grades 11, 12

HACC – BIOL - 103

1 credit (Weighted)

Environmental Science is the study of nature's interactions and the role human kind plays with that system. In this class we will explore the history of the environmental movement, how natural systems work, how humans have affected those natural systems and how those natural systems control the course of human endeavor. The class will include lecture, lab activities, research projects, activities geared toward the increased understanding of the biosphere and discussion of today's most relevant topics in the environmental field. Students who have taken this class will have an increased understanding and appreciation of nature and the interconnectedness of all living things on earth. "We do not own the Earth; we borrow it from our children."

HACC course description - BIOL103 -- Environmental Science (Introduction to the basic concepts of human ecology, such as population, natural resources, pollution, and current issues of environmental concern.) Successful completion of a HACC placement exam **may** be required to take course #1142 (Biol. 103) for HACC credit.

### **1218 College Prep. Anatomy and Physiology** - Grades 11, 12

1 credit

This course is designed to provide students who plan to attend a college or technical school in a field related to human health. It provides both a description of the structures within the different human body systems as well as the function of those structures. We will also explore how the structures work together to maintain homeostasis within humans, and what diseases or disorders can occur within the systems that can impair your health. Dissections of select organs will be used to complement the course materials. A culminating dissection of a fetal pig will also be performed to examine the relationships between all of the systems studied. Course evaluations are primarily based on tests, quizzes, homework, laboratory activities, and projects.

PREREQUISITE: CP Biology and CP Chemistry

User Fee = \$20

## **SOCIAL STUDIES**

### **1333 World History/Geography** - Grade 9

1 credit

The study of World History for all ninth grade Palmyra students begins with the dawn of man and continues until modern times. Topics may include: Early Civilizations (Egypt and Mesopotamia), Religion (with special emphasis on Judaism, Christianity, and Islam), Greece, Rome, the Middle Ages, Exploration, Renaissance, Age of Absolutism, World Wars, and selected topics from the 1900's. Attention will also be focused on geography and current events. Students will be expected to keep a notebook and will be assessed in a variety of ways including projects, tests and written papers.

### **1305 U.S. Government and Economics** - Grade 10

1 credit

This academic course is the study of the origins and nature of U.S. Government and Economics with special emphasis on the development of government and the basic principles involved in the workings of government and economic systems. Special emphasis will be placed on the Constitution, the court system, individual rights, basic economics skills, and current events. Students will practice basic writing and research and will begin to develop higher-order thinking skills.

### **1331 Pennsylvania and United States History** - Grade 11

1 credit

This course is a study of Pennsylvania and United States History from Prehistoric Era through the 21st Century. Through the examination of original source documents and artifacts, emphasis will be placed on a cultural study of American life and how social, political and military events have impacted the average American through time.

### **1328 Honors Pennsylvania and United States History** - Grade 11

1 credit (Weighted)

This course is an academic analysis of American History with the primary goal to show how current history has been influenced by past history. Emphasis is placed on political and economic concepts with special focus on those skills and attitudes necessary for those planning to attend college. Special attention is also paid to Pennsylvania and its role in America's past.

PREREQUISITE:

### **1321 Advanced Pennsylvania and United States History** - Grade 11

(HACC- Hist. 103 and 104)

2 credits (Weighted)

This Dual Enrollment American History course with HACC replaces the former Advanced PA/US History Course (AP American History) and fully meets the graduation requirements in Social Studies during the 11th grade year. It is a full year 2-credit course (that can earn you 6 college credits from HACC upon completion of the course with a C and is strongly recommended to any student considering college. This course will meet all the requirements for AP and will prepare any student interested in taking the Advanced Placement American History exam in May.

Note: US History – HACC Course Designation – History of the United States #103 and #104

(This course is a history of persons and events that have contributed to the American way of life. It will focus on American history beginning with Old World Background and Pre-Columbus Indian Cultures to the present day. The course will also deal with Pennsylvania studies and geography to meet required state standards). Successful completion of a HACC placement exam **may** be required to take course #1321 for HACC (Hist. 103 and 104) credit.

### **1334 Western Civilization I** - Grade 11, 12

HACC 201

1 credit (Weighted)

The course is a survey of the development of civilization in the Middle East, Greece, Rome, and Europe from ancient times through Reformation. Students who successfully complete this class qualify to earn 3 credits through Harrisburg Area Community College. Successful completion of a HACC placement exam **may** be required to take course #1334 for HACC credit.

PREREQUISITE:

### **1335 Western Civilization II** - Grade 11, 12

HACC 202

1 credit (Weighted)

The course is a survey of the growth of civilization in Western and Eastern Europe after the Reformation to the present. Students who successfully complete this class qualify to earn 3 credits through Harrisburg Area Community College. Successful completion of a HACC placement exam **may** be required to take course #1335 for HACC credit.

PREREQUISITE: Western Civilization I.

**1410 Psychology/Sociology** - Grades 10, 11, 12

1 credit

The psychology portion of this course will introduce students to the scientific study of the behavior and mental processes of human beings and other animals. Psychology focuses on the individual. The major principles of psychology will include many of the following: brain and biology, sensation and perception, learning and conditioning, human development, motivation and emotion, thinking, memory, intelligence, personality, stress, social psychology, and abnormal psychology. The Sociology portion of this course is an introduction to sociology as a way of understanding the world. This course will focus on several important sociological topics, including socialization, culture, inequality, and political sociology. Students will leave this course with an understanding of the three main sociological perspectives, an understanding of several important sociological theories, the ability to apply these perspectives and theories to contemporary social problems, and insight into how you shape society and how society shapes you. Psychology & Sociology will be taught in accordance with the relevant Pennsylvania Academic Standards for Social Studies. Educational Technology will be integrated into this curriculum.

**6050 Archaeology and Forensic Anthropology** - Grades 10, 11, 12

1 credit

This course focuses on Archaeology and Forensic Anthropology. Archaeology is the study of human history before recorded time and/or the study and re-evaluation of recorded human history. Students will learn about the theories and methods of Archaeology and the basics of how to conduct and interpret an archaeological dig. Forensic Anthropology is the examination of skeletal remains. This examination can be used to first determine if the remains are in fact human. Then the forensic anthropologist can determine the gender, approximate age, physical stature, and likely racial affiliation of the person in life.

**6051 Cultural and Physical Anthropology** - Grades 10, 11, 12

1 credit

Physical Anthropology is the study of man in all times and places. Physical Anthropology focuses on the development of man from the earliest hominids up through modern man. It also focuses on the spread and settlement of humans and the subsequent development of human culture and civilizations. Cultural Anthropology is the study of living peoples, their beliefs, practices, values, ideas, technologies, economies and more. It's the study of how people adapt to their various geographic environments in order to live and how they develop their culture.

**1423 Current Events I: National, State, and Local** - Grades 10, 11, 12

.5 credit

This course is a study of the historical happenings of the modern period and current events with special emphasis on understanding the world today and the development of 21st Century Skills. Current Events I will place special emphasis on national, state and local events. Students will explore global, national, state, and local news items, the evolution of current events, and will include student interaction with various types of mass media case studies. Students will practice basic writing, research, and will begin to develop higher-order thinking skills through experimentation with emerging instructional technologies including, but not limited to, Blogs, Wikis, Google Docs, slideshows, web presentations, and basic web page design. Students will also work with Apple and Microsoft software to create pod casts, iMovie projects, iPhoto projects, PowerPoint Presentations, newsletters, posters, flyers, brochures and more. This course makes extensive use of Classrooms for the Future technology and will require students to interact with computers, the World Wide Web, and Moodle on a daily basis.

**90014 Current Events II: International / Global** - Grades 10, 11, 12

.5 credit

This course is a study of the historical happenings of the modern period and current events with special emphasis on understanding the world today and the development of 21st Century skills. Current Events II will place special emphasis on international, global, or world events and the connection of these events to, and the influence of, these events on the United States. Students will explore global, national, state, and local news items, the evolution of current events, and will include student interaction with various types of mass media case studies. Students will practice basic writing, research, and will begin to develop higher-order thinking skills through experimentation with emerging instructional technologies including, but not limited to, Blogs, Wikis, Google Docs, slideshows, web presentations, and basic web page design. Students will also work with Apple and Microsoft software to create pod casts, iMovie projects, iPhoto projects, PowerPoint Presentations, newsletters, posters, flyers, brochures and more. This course makes extensive use of Classrooms for the Future technology and will require students to interact with computers, the World-Wide Web, and Moodle on a daily basis.

### **1425 You and the Law** - Grades 11, 12

.5 credit

This nine-week academic course is the study of Constitutional, Criminal, and Civil Law. Special emphasis will be placed on real-life, practical applications and scenarios and the impact that law has on students' lives. Areas of study include lawmaking, the court system, crime and criminal law, juvenile justice, torts, consumer law, family law, and individual rights and liberties. Students will work to improve skills and attitudes that will not only benefit those planning to attend a college/university following high school, as well as those wishing to become a more well-informed and prepared member of society.

### **90041 World Religions** - Grades 10, 11, 12

1 credit

The course is a survey of the major religious traditions of the world. Emphasis is placed upon the theologies, religious practices and ethical teachings of the faiths studied. The course will begin with an inquiry into the nature of religion and religious belief, and then survey ancient religions, primarily those of Egypt, Mesopotamia, and Greece. The course will then turn to the major Eastern (Hinduism, Buddhism, Shintoism, Taoism and Confucianism) and Western religions (Judaism, Christianity and Islam). Some time will also be spent on Jainism, Zoroastrianism, Sikhism and African religions. The influence of religion and religious events upon civilizations and events, both past and present, will be emphasized throughout the course.

### **90283 Pennsylvania Studies** - Grades 10, 11, 12

.5 credit

This nine-week academic course is the study of Pennsylvania History. We will discuss the diversity of Pennsylvania and how the experiences of these different groups have impacted the history of this land. Study will begin with indigenous history; moving into contact with Europeans; through colonial occupation, revolution, and civil war; into the development of an industrial base; finishing with Pennsylvania in the 20<sup>th</sup> Century. Skills in finding and analyzing primary sources will be strengthened and stressed. Students will also be encouraged to research Palmyra and make comparisons between our town's history and Pennsylvania's. Students will ultimately gain more of an appreciation for the town and state in which they live.

## **TECHNOLOGY EDUCATION**

### **1583 Introduction to Technology** - Grades 9, 10, 11, 12

1 credit

Throughout this course, students will be introduced to aspects of Communication and Production Technologies. Students enrolled in the course will spend a total of one full marking period in each of these technology areas taught as a separated course. As a result of this combined approach, students will develop a deeper and broader technological knowledge base through a wide variety of unique projects. Projects include the processing of wood, metal, and plastic as related to production and photography and printing, as related to communication. Students selecting Introduction to Technology will be scheduled into 2 separate 9 week classes called Introduction to Communication Technology and Introduction to Production Technology.

**User Fee = \$20 (\$10 each for Production of Technology and Communication of Technology)**

### **6070 Exploring Engineering** - Grades 9, 10, 11, 12

.5 Credit

In this nine week course students will discover what engineering is all about. This understanding will be developed through various engineering activities and design challenges. Students will have the opportunity to solve engineering problems that are based on mechanical, electrical, civil, and chemical topics. Students will also be introduced to drafting and Computer-Aided Design during this course.

**User Fee = \$10**

### **1450 CAD 1** - Grades 9, 10, 11, 12

.5 credit

This 9-week course further develops the student's understanding of drafting. Students will be involved in both mechanical drafting and CAD drafting, with the major emphasis on CAD and problem solving. Projects will include multi-view designs, isometric designs, and will touch on 3-D drawings.

**PREREQUISITE:** Introduction to Communication Technology or Exploring Engineering

**6071 Automation and Robotics** - Grades 9, 10, 11, 12

.5 credit

This intense course will bring LEGOS to life! It will challenge students of all levels to design and fabricate automated systems that are comparable to current industrial technologies. Students will learn the basic robotic skills required to construct and program automated devices. They will gain an understanding of simple and complex machines through problem solving and a hands-on approach.

PREREQUISITE: Exploring Engineering or Introduction to Communication Technology

**1458 Graphic Production I** - Grades 9, 10, 11, 12

.5 credit

Graphic Production I is a 9-week course that will allow students to design visual products that will be ready for print media. Students will use photo editing software and publishing software to create layouts. Different printing techniques such as screen-printing a tee shirt will be used to apply the designs to a substrate.

PREREQUISITE: Introduction to Communication Technology

User Fee = \$10

**1454 Photography I** - Grades 9, 10, 11, 12

.5 credit

Photography I is a 9-week course that will center on the camera. Learning its functions will be an important starting point. Focus will be placed on how to create a good photo by understanding composition, capture and processing techniques. Both film and digital media will be used for this course. Students must have access to a digital camera that has a resolution of 2 megapixels or better and has a removable memory card. (NO CELL PHONE CAMERAS)

PREREQUISITE: Introduction to Communication Technology

User Fee = \$10

**1460 Woods** - Grades 9, 10, 11, 12

.5 credit

Woods I is a basic level wood class that introduces students to wood and the use of wood in the manufacturing process. Areas of study may include species identification, wood selection, figuring cost, wood machining, wood joinery, fasteners, and wood finishing.

PREREQUISITE: Introduction to Production Technology

User Fee = \$10

**1464 Metals** - Grades 9, 10, 11, 12

.5 credit

Metals I is an introductory course designed to expose students to technologies associated with metal manufacturing and production. Areas of study may include welding, machining, fastening, casting, and finishing of metals and metal products.

PREREQUISITE: Introduction to Production Technology

User Fee = \$10

**1468 Advanced Production Technology** - Grades 10, 11, 12

.5 credit

Advanced Productions is a self-directed course in which students will set goals to organize their work and meet their goals in production. Students may choose one of the following areas to concentrate their study: advanced skill development, research and design, materials testing, or product design. A writing component will be associated with this area of study. Students taking Advanced Production will be required to reimburse the school district for all materials consumed for individual projects.

PREREQUISITE: Woods 1 or Metals 1

This course may be taken more than once for credit.

User Fee = \$10

**6072 Advanced Communication Technology** - Grades 10, 11, 12

Advanced Communication Technology is a self-directed and project driven course in which students will demonstrate independent learning while fulfilling one of two pathways. Students who completed course in CAD will follow the CAD pathway, which will center on architectural drawing including floor plans and elevations. Students, who have completed Photography, will enjoy an extension of photography working with Film and Digital Media. Emphasis will be placed on advanced techniques.

PREREQUISITE: CAD 1 and/or Photo 1

This course may be taken more than once for credit.

User Fee = \$10

**1470 Electronics** - Grades 10, 11, 12

.5 credit

This course introduces students to the area of electronic and electricity through the use of Science, Technology, and Mathematical principles. Areas of concentration will be safety, theory, components, principles, systems and impact related to electricity and electronics. Experiences include breadboarding, design and problem solving, use of test equipment and electronic project assembly/troubleshooting.

PREREQUISITE: Introduction to Production Technology or Exploring Engineering

User Fee = \$10

**WORLD LANGUAGES**

**0400 French I**

**0420 German I**

**0440 Spanish I**

**90108 Latin I**

Grades 11, 12 only

Grades 9, 10, 11, 12 - 1 credit

Each Level I Language Course uses the skills of listening, speaking, reading, and writing to introduce basic grammatical concepts of the target language. Students will be exposed to relevant cultural concepts. Students are expected to achieve a survival level of proficiency.

**0405 French II**

**0425 German II**

**0445 Spanish II**

**6075 Latin II**

Grades 11, 12 only

Grades 9, 10, 11, 12 - 1 credit

Foreign Language II continues the combinations of the basic skills of reading, writing, speaking, and comprehension. There is a greater depth of study related to customs, contemporary life, and short stories in the target language. Students will be able to speak, write, read, and comprehend topics and themes to a level consistent with basic communication. This level also reviews grammatical concepts, as well as introduces more advanced grammar.

PREREQUISITE: Foreign Language Level I.

**0413 Honors French III**

**0433 Honors German III**

**0453 Honors Spanish III**

Grades 10, 11, 12 - 1 credit (Weighted)

The target language is utilized to an appropriate level of comprehension. The student is introduced to in-depth vocabulary to enhance his/her ability to manage routine situations confidently. Advanced grammatical forms are studied as they relate to native speech and written material. Contemporary short stories depicting cultural aspects of countries are read and discussed. A considerable emphasis is placed on writing skills, and short compositions are required.

PREREQUISITE: Foreign Language Level II.

**0418 Honors French IV**

**0438 Honors German IV**

**0458 Honors Spanish IV**

Grades 10, 11, 12 - 1 credit (Weighted)

The students will expand the application of grammar, vocabulary, and cultural elements acquired in the previous levels. There is involvement in research projects relating to the culture, history, geography, and literature of the target language. It is intended that the students reach an intermediate level of comprehension and conversation.

PREREQUISITE: Foreign Language III.

**0423 Honors French V**

**0443 Honors German V**

**0463 Honors Spanish V**

Grades 11, 12 - 1 credit (Weighted)

Honors Level V classes are designed to develop oral fluency and communication. Students will use grammar, vocabulary, and cultural elements acquired in previous levels of Spanish, French or German. Students will research and discuss a variety of information from the arts, history, literature, culture and sport.

PREREQUISITE: Honors Level IV

**Dual Enrollment BlendedSchools Academy for Language Study**

In addition to Spanish, French, and German, Palmyra Area High School, in partnership through *BlendedSchools'* Language Institute and Seton Hill University, will be offering the following "Dual Enrollment and College in the Classroom" courses:

**0465 Arabic I**

**0473 Japanese I**

**0467 Arabic II**

**0475 Japanese II**

**0469 Chinese I**

**0477 Russian I**

**0471 Chinese II**

**479 Russian II**

**090474 Hindi I**

Course Description:

These courses serve as an introduction to modern standard Chinese (Mandarin) Arabic, Russian, Japanese or Hindi as a foreign language for beginners. The main goal for this course is for students to acquire a culturally contextualized working knowledge of and essential skills in an introductory language. The course aims at developing four basic skills; reading, writing, listening, and speaking; and at building a solid foundation in preparation for more advanced studies.

Students interested in a *BlendedSchools* computer course can earn 3 college credits per semester of study. Students who successfully complete Levels I & II of any of the above languages may be able to move to Levels III and IV the following year. Students will be responsible for the cost of \$650.00 for each of the 3 credit courses and the required textbook. Interested students should express their interest to their guidance counselor. All *BlendedSchools* college level course are weighted.

**MISCELLANEOUS:**

**0700 Service Learning** - Grades 11, 12 (elective)

**(Service Learning is now only open to students taking 1.5 credit Advanced Placement courses or classes at Lebanon Valley College or with special permission from the Principal) Service Learning is only offered during the second semester.**

.5 credit

Students who select Service Learning will spend this time doing volunteer work for a community organization. Some examples of this can be volunteering at a local hospital, senior citizens home, or community library; tutoring students in the junior high school or elementary school; and serving as a library aide, computer lab aide, or teacher aide. Students will be required to submit at least one reflective essay per marking period about the experience. Students must provide their own transportation to the site.

**0692 SAT Preparation Course** - Grades 10, 11, 12 (elective)

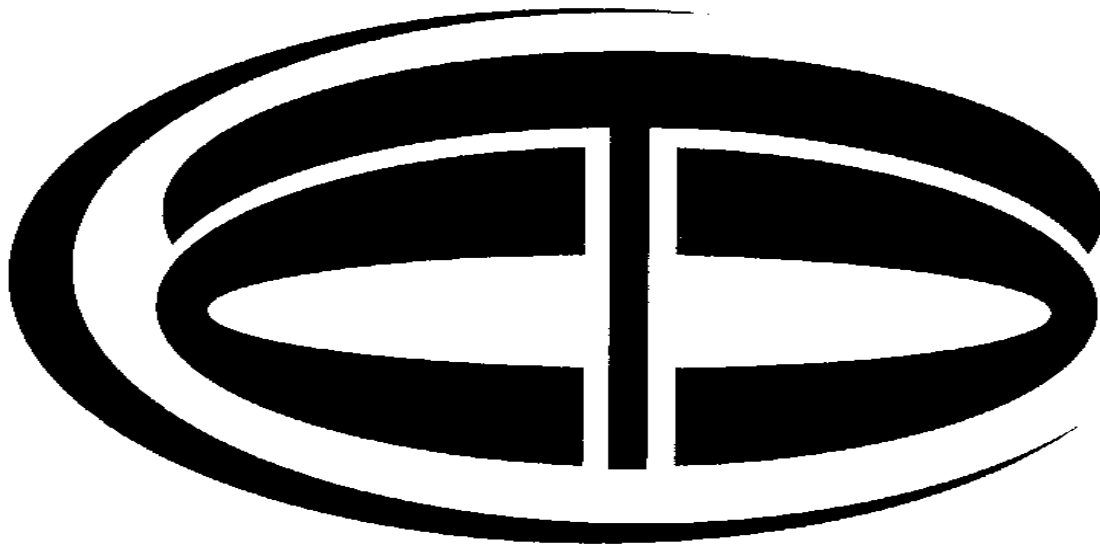
.5 credit

This is a computer course offered in school to prepare students to take the SAT's (Scholastic Aptitude Test) in Math, English and Writing. We are offering this class in place of the evening classes offered in the past. Any student interested in attending college needs to take the SAT's and thus needs to take this course. A \$50.00-\$70.00 fee is required, unless a student is on free or reduced lunch (\$25). The course is web based and offers 50 interactive lessons and four full-length practice tests including automatically graded essays. The course will be graded pass/fail based on participation and assignment completion. Students can bring their own headset/earphones and should have a graphing, scientific or four-function calculator to complete the math sections.

**0822 Yearbook** - Grades 10, 11, 12 (elective)

1 credit

Description: The chief function of Yearbook is to produce the *Palm Echo* yearbook. The class will build on skills learned to create layouts unique to yearbook production. Knowledge of basic journalism principles is required, and students will need to learn how to use Jostens Yearbook Avenue software program. All students will be required to meet deadlines, complete assignments, and compile a summative portfolio for final evaluation. This class may be repeated for an elective credit. There will be limited sections of this course offered.



LEBANON COUNTY  
CAREER AND TECHNOLOGY  
C · E · N · T · E · R

## **Career and Technology Center**

Selecting a career is one of the most important a student can make. We encourage all students to consider programs offered at the Career and Technology Center (CTC).

For further information, check our website at [www.lcctc.k12.pa.us](http://www.lcctc.k12.pa.us)

## **Did you know. . ?**

**At the Lebanon County Career and Technology Center**

- ✓ CTC students excel in a “learning by doing” environment, which combines academics and lab work.
- ✓ CTC students earn college credits from community colleges and technical schools by successfully completing CTC courses.
- ✓ CTC students receive scholarships from area businesses that recognize excellent craftsmanship and academic achievement.
- ✓ CTC students continue to participate in sports and extracurricular activities at their high schools.

- ✓ Cooperative Education, Clinical Experience and Job Shadowing services expand the CTC curriculum by providing students with additional skills through supervised work experience at local businesses. In addition to the cooperative education program, job placement services are available to all graduates.
- ✓ The CTC provides guidance services to assist students with personal problems, decisions related to career choice, or decisions related to postsecondary opportunities and college credits.
- ✓ The CTC provides support to students who are disabled or disadvantaged. The support is designed to help each student successfully complete the program and secure employment or postsecondary education.
- ✓ The CTC takes every opportunity to recognize and reward students who strive for excellence. This recognition includes: scholarships, student-of-the-month and year awards, outstanding achievement, perfect attendance, honor roll, certificates and extensive recognition for student organization achievements.
- ✓ Student participation in program related organizations is strongly encouraged. They provide each student with opportunities to develop leadership skills, excel in technical skills, receive recognition for state and national competitions, and travel throughout the state and nation. The organizations include:  
 FCCLA – Family Career and Community Leaders of America  
 LCBA – Lebanon County Builders Association –Student Chapter  
 HOSA – Health Occupations Students of America  
 SkillsUSA – Vocational Industrial Clubs of America

## **HALF-DAY TWO-YEAR PROGRAMS**

Fifteen CTC programs are offered for a half-day for two years. These programs are open to students beginning in the junior year.

Auto Body Technology	Automotive Technology
Carpentry/Residential Construction	Computer Repair Technology
Diesel Truck Technology program)	Diversified Occupations (one year
Electrical Technology	Industrial Machine Technology
Law Enforcement and Security	Masonry
Medical Assistant	Network Technology
Occupational Transitions	Plumbing/Heating/Air Conditioning
Welding Technology	

### **AUTO BODY TECHNOLOGY**

**2800 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) -----(36 WEEKS, 3 CREDITS)**

**5800 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

Auto Body Technology students restore late model cars or trucks to like-new condition. Utilizing the latest technology they rebuild damaged vehicles and learn body and frame alignment, parts repair/replacement including the latest fiberglass and plastic components, MIG welding, trim, accessories, interior components, glass replacement, and painting including basecoat/clearcoat/stripping. Career opportunities range from the reconitioner to the collision technician and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology and the Automotive Training Center.

### **AUTOMOTIVE TECHNOLOGY**

**2805 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) -----(36 WEEKS, 3 CREDITS)**

**5806 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

Automotive Technology students diagnose, service, and repair late model vehicles following the Automotive Service Excellence (ASE) and Automotive Youth Educational System (AYES) national technician standards. Motivated students may obtain the PA Auto Safety Inspection Certification and qualify to take the ASE test. Students who are selected into the AYES program are guaranteed employment with a local auto dealership and complete two additional years of college. Utilizing state-of-the-art repair equipment students learn brake systems, suspension and steering, engine repair and performance, automotive electronics, HVAC and transmissions. Technical career opportunities range from the maintenance mechanic to the automotive technician and may begin in high school with a Co-Op or an AYES position providing job experience and a salary. Students who successfully

complete the program may receive 16 college credits from HACC. In addition, students can also earn credits from University of Northwestern Ohio, Automotive Training Center, and Northampton Community College.

### **CARPENTRY/RESIDENTIAL CONSTRUCTION**

**2825 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**5825 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

Carpentry students work on construction projects within the school and community. They learn skills including: transit and blueprint reading, selection of building materials and estimating, framing (floors, stairs, walls, and roofs), selection and installation of windows and doors, roofing, interior and exterior finishing, concrete finishing, and foundations. Career opportunities range from a siding installer to a finish carpenter and may begin in high school with a Co-Op position providing job experience and a salary. The 500 employers in the Lebanon County Builders Association sponsor this program, provide student scholarships, and employ graduates. Students who successfully complete the program may receive six college credits from HACC.

### **COMPUTER REPAIR TECHNOLOGY**

**2400 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) -----(36 WEEKS, 3 CREDITS)**  
**2405 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Computer Repair Technology students utilize the latest laboratory equipment to develop technical expertise for the rapidly growing career opportunities in networking, computer repair and support specialist positions. Students follow a high tech curriculum including topics such as: AC/DC fundamentals covering resistor, indicator, and capacitor applications, common wiring practices, and the measurement of electrical parameters; Applied Digital Electronics covering numbering systems, basic logic gates, latches, flip-flops, EPROMS, counters and basic microprocessors; A+ certification sequence covering theory and hands on lab experiments with troubleshooting applications for microcomputer systems and peripherals. Students may receive six college credits from HACC for successful completion of this CTC program.

### **DIESEL TRUCK TECHNOLOGY**

**2850 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**5851 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

Diesel Technology students restore late model over-the-road diesel truck-tractors to like new condition. Each year they refurbish or repair vehicles providing “hands-on” experience in diagnosing, servicing and repairing all major heavy truck systems. Students learn the importance of teamwork and qualify for the PA Inspection program. The major course topics include: Engine Rebuilding & Repair, Electrical Systems, Brakes, Power Trains, Steering, Suspension and HVAC Systems. Career opportunities range from maintenance mechanic to fleet manager, and may begin in high school with a Co-Op position providing job experience and a salary. Over 250 employers in the South Central Motor Truck Association sponsor this program, provide student scholarships, and employ graduates. Students who successfully complete the program may receive college credits from PA College of Technology, University of Northwestern Ohio, and Automotive Training Center.

## **DIVERSIFIED OCCUPATIONS**

**3003 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**3005 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

This program operates as an integral part of vocational education by providing a cooperative arrangement between the school and employers. The student receives general education instruction in the school and on-the-job training through part-time employment in business/industry. The area of training may be in any vocational education area where there are needs for trained persons and must relate to the student's career objective. However, specifically, the program was designed to provide training for those vocational areas not presently being offered at the vocational school and to serve students who are unable to gain admission to a vocational program due to excessive applications.

## **ELECTRICAL TECHNOLOGY**

**1863 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**1867 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Electrical Technology students design and install the electrical systems in the school's construction projects and work on numerous projects within the community. They learn technical skills including AC/DC fundamentals, residential, commercial and industrial wiring, AC/DC motors and generators, industrial motor control, troubleshooting and the operation of programmable logic controllers. Technical careers range from an electrician to a systems engineer and may begin in high school with a Co-Op position providing job experience and a salary. The 500 employers in the Lebanon County Builders Association sponsor this program, provide student scholarships and employ graduates. Completion of this program with the College-in-the-High School option may also provide students with eight HACC college transferrable credits.

## **INDUSTRIAL MACHINE TECHNOLOGY**

**2945 (HALF-DAY, 8:05 A.M. -10:40 A.M. – YEAR ONE)----- (36 WEEKS,3CREDITS)**  
**5945(HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO)----- (36 WEEKS, 3 CREDITS)**

Industrial Machine Technology students manufacture precision parts in the school's NIMS (National Institute for Metalworking Skills) authorized training center. The curriculum provides in-school instruction on topics such as: quality control, benchwork, blueprint reading, computer controlled machines (lathes/milling machines), and standard machines (saws/drills/grinders/lathes/milling machines). Career opportunities range from machine operator to tool and die maker and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive seven college credits from HACC as well as credits from PA College of Technology and Thaddeus Stevens College of Technology.

## **LAW ENFORCEMENT AND SECURITY**

**2410 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**2412 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Law Enforcement and Security students develop investigation skills essential to careers in law enforcement (police, courts, corrections), and the ever-growing private security fields. They also experience the criminal justice system in action through job shadowing at the district justice office and criminal court. The program emphasizes a "learning by doing" curriculum which covers topics such as: criminal procedures, crime photography, criminal investigations, criminal law, Bill of Rights/US Constitution, vehicle law, private security, report writing, and first

aid/CPR. Career opportunities range from private security to local, state, and federal officers and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive three college credits from HACC.

## **MASONRY**

**2935 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**  
**5935 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Masonry students work on construction projects that include concrete block, brick and other similar materials. Most of the training is within the school; however, community service projects add additional learning opportunities. Students develop a highly skilled craft, which includes the ability to lay a multitude of contemporary concrete building products as well as traditional brick. Additional topics include: blueprint reading, site layout, estimating, building codes, and the use of hand and power tools. Career opportunities range from a mason's helper to blocklayer, bricklayer, estimator, or construction supervisor and may begin in high school with a Co-op position providing job experience and a salary. The 500 members in the Lebanon County Builders Association as well as the Pennsylvania Concrete Masonry Association sponsor this program, provide student scholarships and employ graduates. A student who successfully completes this program may earn three college credits from HACC.

## **MEDICAL ASSISTANT**

**90307 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE)----- (36 WEEKS, 3 CREDITS)**  
**90339 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Medical assistants are professional, multi-skilled individuals who perform administrative and clinical duties in health care settings. The program includes studies in anatomy and physiology, health insurance coding and billing, medical terminology, medical law and ethics, pharmacology, clinical and administrative skills, phlebotomy, laboratory tests, and performing and interpreting electrocardiograms.

## **NETWORK TECHNOLOGY**

**1885 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 Credits)**  
**1890 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 Credits)**

Network Repair Technology students will develop a technician's ability to describe the features and functions of networking components and learn how to install, configure and troubleshoot basic networking hardware, protocols and services. This course will benefit students who are interested in pursuing a career in network administration as a network support technician, network administrator, network analyst or in help desk support or sales. Fundamental topics to be covered include: The Foundations of Networking, the OSI/802 Model, Network Design, Network Cabling Media, Wireless Communication, TCP/IP, WAN Devices, Security Issues and Disaster Recovery Training. The goal is for students to seek Network+ certification after successful completion of the course. Students who successfully complete the program may receive four college credits from HACC.

## **OCCUPATIONAL TRANSITIONS**

**2000 (HALF-DAY, 8:05 A.M. – 10:40 A.M. OR 11:35 A.M. – 2:10 P.M.) ----- (36 WEEKS, 3 CREDITS)**

This course provides career exploration and basic skills in construction and building maintenance trades, metalworking, automotive and auto body technologies, landscape maintenance and hospitality trades. The program is designed to provide students with basic occupational skills and prepare students for further training in a specific occupational area.

## **PLUMBING, HEATING, AIR CONDITIONING**

**2915 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**

**5915 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Plumbing, Heating, Air Conditioning students design and install the HVAC systems in the school's construction projects and work on numerous projects within the community. They learn technical skills including: blueprint reading, national plumbing code, drainage installation, water supply distribution, water treatment, electrical schematics, HVAC controls, refrigeration cycle, oil/gas/geothermal/hydronic systems, and EPA certification. Technical careers range from a service technician to a systems designer, and may begin in high school with a Co-Op position providing job experience and a salary. The 500 employers in the Lebanon County Builders Association sponsor this program, provide student scholarships and employ graduates. Students who successfully complete the program may receive 1 college credits from HACC.

## **WELDING TECHNOLOGY**

**2925 (HALF-DAY, 8:05 A.M. – 10:40 A.M. – YEAR ONE) ----- (36 WEEKS, 3 CREDITS)**

**5924 (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) ----- (36 WEEKS, 3 CREDITS)**

Welding Technology students design, fabricate and repair metal products in the school's shop facilities. They develop skills in testing procedures necessary to meet standards for welding certification and practice welding techniques according to the requirements of the American Welding Society and the American Society for Mechanical Engineers. Utilizing state-of-the-art equipment, students learn blueprint reading, gas welding and brazing, oxy-fuel cutting, pipe fitting and welding, sheetmetal layout and fabrication, computerized numerical control cutting, plasma cutting of sheet/plate/pipe, and structural welding. Technical careers range from a metal fabricator to an underwater welder. These opportunities may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive six college credits from HACC. The program is nationally recognized and certified by the AWS (American Welding Society).

## **FULL-DAY PROGRAMS**

**Eight CTC programs are offered for a full day, 8:05 A.M. – 2:10 P.M. The programs are open to seniors.**

**Child Care Services**

**Health Careers Technology**

**Commercial Art and Design**

**Landscape Technology**

**Culinary Arts**

**Pastry Arts**

**Dental Assistant**

**Visual Broadcast Technology**

## **CHILD CARE SERVICES**

**1830 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Child Care students operate our on-site preschool and volunteer at the infant/toddler/preschool centers throughout the county. They learn to be caregivers who understand the needs of infants, toddlers, and pre-school children through a curriculum that includes: introduction to early childhood, health and safety, child development, nutrition, behavior management, creative curriculum, communications skills, and early interaction. Students develop skills in storytelling and presenting art, music, movement, and science activities for groups of children. They also write weekly lesson plans, design bulletin boards, decorations, newsletters and other teaching tools. Career opportunities range from a day care provider to an elementary teacher, and may begin in high school with a Co-Op or clinical experience providing job experience and a salary. Students who successfully complete the program may receive college credits at Reading Area Community College, HACC, or PA College of Technology. Completion of the program with the College-in-the-High School option may also provide seven HACC college transferrable credits.

## **COMMERCIAL ART AND DESIGN**

**1835 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Commercial Art students work with a variety of media to create logos, brochures, posters, advertisements, greeting cards and a variety of artwork for the school and the community. They participate in Art Shows and Competitions to develop a portfolio emphasizing their creative talents and technical skills including mastery of state-of-the-art computer systems and software such as: QuarkXpress, Adobe Illustrator, and Adobe PhotoShop. This “learning while doing” strategy brings reality to the course topics, which include: typography, media techniques, camera-ready art, color theory, graphic design, perspective, and computer applications. Career opportunities range from a production artist to a creative director. Graduates have been successful at four-year colleges and a number of students have won scholarships at two-year art schools. Students who successfully complete this program may earn college credits from Pennsylvania College of Art and Design and The Art Institute of Pittsburgh.

## **CULINARY ARTS**

**1870 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Culinary Arts students operate a contemporary sixty-seat full service restaurant located within the school. They plan, prepare and serve a variety of traditional, ethnic, and contemporary menus as well as cater banquets, dinner meetings, and special events. Students develop artistic skills through ice carvings and special exhibits of pastillage, tallow, and aspic work. Local, state, and national competitions enrich the curriculum which includes: appetizers, soups and sauces, vegetables and salads, meat/poultry/seafood/shellfish, desserts, garnishing, catering, service, sanitation, and management. Career opportunities range from a prep cook to an executive chef and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology, HACC, Johnson & Wales University, Pennsylvania Culinary Institute, and The Restaurant School. The program is nationally recognized and certified by the American Culinary Federation (ACF).

## **DENTAL ASSISTANT**

**90336 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

The Dental Assistant program integrates lectures, demonstrations and hands-on experiences to teach students a variety of dental-related subjects. The major areas of study include anatomy and physiology, chair-side dental assisting, radiology, dental materials and microbiology/sterilization. During the program, students participate in clinical rotations in private dental offices, clinics and hospitals. Experience gained in the Dental Assistant program prepares students to take the Commonwealth of Pennsylvania State Dental Radiology Certification Test.

## **HEALTH CAREERS TECHNOLOGY**

**1880 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Health Careers Technology students who are interested in a career as a nursing assistant (NA) can complete the requirements for the exam by mid-year. Successful performance on the exam will provide the opportunity for immediate paid employment at local nursing care facilities. Students also earn certification in adult and infant CPR as well as first aid and blood pressure screenings through the American Red Cross and the American Heart Association. They learn to be caregivers and prepare for the state Nurse Aide Competency Exam through a curriculum that includes topics such as: patient care skills, anatomy and physiology, medical terminology and ethics, nutrition, environmental cleanliness, record keeping, and safety.

Students interested in getting a head start on a Licensed Practical Nursing (LPN) career may qualify for advanced placement in the adult CTC LPN program. They will complete a portion of the curriculum for Level 1 of the LPN program, which allows them to enroll in the LPN program at a reduced cost. There is also a reduction in the number of hours required to attend Level 1.

Completion of the full year Health Careers Technology program with the College-in-the-High School option also provides six HACC transferrable credits.

## **LANDSCAPE TECHNOLOGY**

**3007 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

As a student in the Landscape Technology program, you will learn the ins and outs of plant and nursery production. Through practice on the school grounds, greenhouse, and within the community, you will learn landscape maintenance, design, and construction. This hands-on program will give you the knowledge of tool and equipment operation to create and maintain a more beautiful outdoors.

## **PASTRY ARTS**

**1810 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Pastry Arts students produce and market high quality baked goods for a contemporary sixty-seat restaurant within the school. They also market their products through their own pastry shop as well as supplying items for school banquets, dinner meetings, and special events. Students develop artistic skills through the preparation of pastries, confections, and other specialty desserts. Local, state and national competitions enrich the curriculum which includes: pastry bag skills, cornet skills, cake decorating and assembly, decorative pieces, recipe development, purchasing, weighing/measuring/mixing/blending ingredients, merchandising, record keeping, and sanitation. Career opportunities range from a baker's helper to a pastry chef and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology, HACC, Pennsylvania Culinary Institute, and The Restaurant School. The program is nationally recognized and certified by the American Culinary Federation (ACF).

## **VISUAL BROADCAST TECHNOLOGY**

**1905 (FULL-DAY, 8:05 A.M. – 2:10 P.M.) -----(36 WEEKS, 6.0 CREDITS)**

Visual Broadcast Technology students operate the school’s radio station and television studio utilizing broadcast quality equipment. They participate in competitions to develop visual products emphasizing their creative talents and technical skills including mastery of state-of-the-art computer systems, software, cameras, and lighting. They create photographic and video projects for the school, civic groups, and business clients. The program emphasizes a “learning by doing” curriculum which covers topics such as: digital imaging, portraiture, photo composition, lighting, large camera formats, web page design, digital audio mixing, video scripting/storyboarding, videography, EFP video, studio production/line editing, digital nonlinear editing, digital effects, 2D animation, and multimedia CD ROM production. Career opportunities include photographers, radio announcers, and videographers. These opportunities may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology, Reading Area Community College, and The Art Institute of Pittsburgh.

## **HALF-DAY YEAR ONE AND FULL-DAY YEAR TWO PROGRAM**

This program is offered for a half-day in year one and a full day in year two. The program is open to students in the junior year.

## **COSMETOLOGY**

**2840 (HALF-DAY, 8:05 A.M. – 10:40 A.M. OR 11:35 A.M. – 2:10 P.M. - YEAR ONE)----- (36 WEEKS, 3 CREDITS)**

**3840 (FULL-DAY, 8:05 A.M. – 2:10 P.M. -YEAR TWO)----- (36 WEEKS, 6.0 CREDITS)**

Cosmetology students provide hair, nail, and skin care services to clients in the school salon and complete the 1250 hours of classroom instruction and clinical experience necessary to pass the State Board examination. Students gain knowledge of style and fashion as well as contemporary products, which are crucial for successful employment or salon ownership. Additional course topics include: Bacteriology, Hair & Skin Structure, Shampooing, Cutting, Braiding, Styling, Waving, Relaxing, Coloring, Makeup Application, Law, Anatomy, Chemistry and Special Therapy. Career opportunities range from a nail technician to a salon owner.

***\*Please be certain to consult with your guidance counselor to ensure that the courses you select meet with Palmyra Area High School graduation requirements.***

Note: Palmyra Area High School is accredited by the Pennsylvania Department of Education. Palmyra Area School District is an equal opportunity educational institution and will not discriminate on the basis of race, color, national origin, sex, or non-relevant handicaps and disabilities. The district policy of non-discrimination complies with state and federal laws including Title VI, Title IX, and Section 504.