

# COURSE DESCRIPTIONS

## MA-951

### AIR FORCE JUNIOR ROTC

Air Force Junior ROTC is a citizenship program for high school students in the ninth through twelfth grades. AFJROTC encourages its students to get involved in their local communities to produce well-informed and helpful citizens. Each year's Aerospace Science course work relates to a different theme; examples are: Frontiers of Aviation History, The Science of Flight and the Exploration of Space. Leadership studies include Air Force customs and courtesies, cadet corps activities, study habits, time management, communication skills, and leadership and management studies. To enhance classroom learning, students participate in extracurricular and social activities such as field trips, Air Force orientation flights, color guards, model rocketry and dances/military balls.

AFJROTC courses provide exciting opportunities for students to learn about aerospace science and to develop leadership skills through laboratory and classroom work. The curriculum supports the overall objectives of the AFJROTC program: values of citizenship, community service, personal responsibility, and a sense of accomplishment. Each course includes curriculum in Aerospace Science, Leadership Education and Wellness.

Students attend AFJROTC classes one period per day, five days per week. The program is open to all students at all academic levels. Students wear Air Force-provided uniforms one day each week. **There is no military service commitment associated with this course.** Students participate in co-curricular activities such as Color Guard and Drill Team events and competitions. (Unleveled, 5 periods, 5 credits, Physical Education AFJROTC courses.) Physical Education credit will be granted to students electing AFJROTC.

#### **AEROSPACE SCIENCE 1- A Journey into Aviation History AS 100 (#1101)**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Aerospace Science course called *Journey into Aviation History*. This is a history course designed to acquaint the student with the historical development of flight and the role of the military in history. About three-quarters of the available classroom hours are spent reviewing the development of flight from ancient legends through the Persian Gulf War and beyond. Additionally, the role of the military throughout history of the United States is identified.

#### **LEADERSHIP EDUCATION 1 (LE 100)-(#1101): Citizenship, Character, and Air Force Tradition**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: none*

This is an integral part of each year's instruction. LE I- Citizenship, Character and Air Force Tradition along, LE I introduces cadets to the AFJROTC program. It provides information about military traditions, citizenship, the U. S. government, wellness, health, fitness, and how to exercise self-control. Proper wear of the uniform, Air Force customs and courtesies, and basic drill skills are introduced.

Optional: extracurricular activities include- Color Guard and Drill Team.

#### **AEROSPACE SCIENCE 2- AS 200 (#1102) - Global and Cultural Studies 1 and 2**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

Science of Flight is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical, and cultural perspective. The course provides increased international awareness and insight into foreign affairs that permits a more educated understanding of cultures and enhanced knowledge of America's interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, disease, overpopulation, literacy, the migration of peoples and other cultural issues will be examined.

#### **LEADERSHIP EDUCATION 2 LE 200 (#1102): Communication, Awareness, and Leadership**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: none*

Leadership Education 2- Communication, Awareness, and Leadership course provides an excellent introduction to the fundamentals of communication, self-knowledge, and leadership, including such topics as the basic communication process; writing, speaking, listening, including critical-thinking skills; interpreting events and experiences and building

a positive attitude; integrity and character; personality preferences and your personal style; team-building and group dynamics; resolving conflicts; la leadership model; and the theory of adaptive leadership.

### **AEROSPACE SCIENCE 2–AS 210 - (#1103) Science of Flight**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grades 9-12). *Prerequisite: none*  
A science course called The Science of Flight acquaints students with the aerospace environment, human requirements of flight, principles of aircraft flight and navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Practical experience with the Flight Simulator is the highlight of the course.

### **LEADERSHIP EDUCATION 3-LE-300 (#1103): Life Skills and Career Opportunities**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: none*

LEIII provides an excellent introduction to the fundamentals of career exploration, fiscal responsibility, educational paths, and career development. It emphasizes the importance of life skills and planning for future, reinforcing themes of personal responsibility and good citizenship.

After successfully completing the Leadership Education III: Life Skills textbook, the student will:

Understand the importance of obtaining a degree or skill after high school. Comprehend that a proper job search is needed to obtain employment. Comprehend the importance of financial planning. Understand the career opportunities available through the federal government, NASA, FAA, and the military.

### **AEROSPACE SCIENCE 3 (#1104): Exploring Space: The High Frontier**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

The course provides a scientific approach to our Sun, Earth, Moon, Terrestrial/Outer Planets, Dwarf Planets, Comets and Asteroids. It covers the latest advances in space technology, along with the continuing challenges of space and manned space flight. The manned space flight section covers major milestones in the endeavor to land on the Moon, and to safely orbit humans and crafts in space for temporary and prolonged periods. It also provides an historical look at the Russian/Soviet Manned Space Program and the challenges the U.S. faced in maintaining a front runner position with regard to worldwide space exploration. Finally, the course outlines how we use space in our daily lives.

### **LEADERSHIP EDUCATION 4- LE 400 (#1104) - Principles of Management**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: none*

Welcome to another year in the Air Force Junior ROTC leadership program. The subject matter in Leadership Education IV: Principles of Management was based on suggestions received from AFJROTC instructors from around the world. Principles of Management allow the leader to see himself as a manager. Every organization, regardless of size, faces the challenge of managing operations effectively. No matter how well a manager carries out his or her job, there are always ways of doing at least part of the task more effectively. There are four building blocks of leadership considered in this text from the military and civilian perspective. Attention to these four areas will form a strong foundation for a capability to lead others – something that can be very valuable to you for the rest of your life. The four areas are Management Techniques, Management Decisions, Management Functions, and Managing Self and Others.

### **AEROSPACE SCIENCE 4-AS430- (#1105) - Policy and Organization**

(Unleveled/graded, full year - 5 periods, 5 credits or half year - 5 periods, 2.5 credits, grade 11-12)

*Prerequisite: Student must achieve a grade of B- or better in all AFJROTC classes and Department Head approval*

The fourth year curriculum is unique from others. The Senior Aerospace Science Instructor (SASI) may choose which option they would like to incorporate for that year. The options include the management of the cadet corps allowing the cadets to manage the entire corps during the fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. A basic survival course called “Survival--Survive Return.” Is another option the SASI may incorporate into the fourth year curriculum? Students will learn the elements of surviving. They will become familiar with how medicine, procedures, clothing and shelter can provide personal protection during a survival situation. Case studies are examined to reinforce understanding. The option three is the Policy and Organization. This course establishes the foundation for understanding the United States Air Force, National Security Strategies and gives a brief history of the military. The Nixon, Ford, Carter, Reagan, Bush, Clinton and George W. Bush administrations are discussed.

### **WELLNESS CURRICULUM –This curriculum is incorporated in ALL AS and LE courses yearly.**

Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. Wellness is

instrumental in developing citizens of character dedicated to serving our nation and communities. The program is provided as a tool to help the student develop individualized training programs. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education I. Instructors are free to include other activities cadets enjoy such as team sports in order to keep the Wellness Program fun and motivating. The Wellness Program is a 36-week program modifiable to meet individual goals. Personal improvement will be rewarded. The 36-week program is comprised of 19 exercises, which can be conducted with minimal space and with minimal climate dependency (e.g. the 1-mile run). The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity. They require no equipment and use only body weight and common objects (e.g. chairs).

The course objective for the Wellness Program is to:

- Motivate JROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.

The goals of the Wellness program are to:

- Create an individualized training program based on national standards by age and gender.
- Identify areas of improvements for each cadet.
- Incorporate a physical training program to reach goals.

#### **SUPPLEMENTAL COURSES:**

##### **National Endowment for Financial Education (NEFE) - AS/LE (#1106)**

(Unleveled/graded, half-year - 5 periods, half year - 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: none*

NEFE High School Financial Planning program was created to (1) educate high school students about sound money management skills and financial planning process, and (2) help teens begin to develop positive behaviors that are necessary to attaining financial maturity and achieving a secure future.

# BUSINESS AND TECHNOLOGY DEPARTMENT

## FULL YEAR COURSES

### **COLLEGE ACCOUNTING (#0604, #0605) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors/College Prep 1/full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: none*

College Accounting is highly recommended for college-oriented juniors and seniors who are planning to major in Accounting or Business Administration. This course is an accelerated version of Accounting 1 and Accounting 2 combined. Students who are interested in careers in the business field will learn accounting theory and principles. Students will acquire the basic principles of accounting to ensure a smooth transition into the fields of business at the college level.

*Note: Students in the Honors (#0604) section will be required to complete two additional multi-part outside projects.*

### **INTRODUCTION TO BUSINESS (#0606) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

Learn about the world of business! Introduction to Business introduces students to the role of business in the lives of individuals, consumers, workers, and citizens. Coverage includes small business management, business fundamentals, career planning, social responsibility and ethics, basic economics, technology, financial operations, risk management, consumer decision-making, and insurance. Students planning to enter Starting your own Business, Marketing, or Business Management should consider taking this course.

*Note: Students completing Introduction to Business may be eligible for college credits at North Shore Community College.*

### **MARKETING (#0608) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1/full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

This course will give students a solid knowledge base of the practices and principles of marketing. The student's interest and needs will be met with in-depth coverage of the latest marketing trends, ethical marketing practices, multicultural perspectives and alternate assessment strategies. Students involved in this course will be given the opportunity to participate in DECA. DECA prepares emerging leaders in marketing, finance, hospitality, and management in high schools and colleges around the globe.

*Note: Students completing Marketing may be eligible for college credits at North Shore Community College.*

### **TELLER INTERNSHIP (#0632 ) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1/full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Completed or enrolled in Introduction to Banking and Finance or Department Head approval*

Imagine including one year as a teller on your resume. This course offers students applicable, real-world experiences as a teller in the PVMHS branch of the Metro Credit Union. This is a unique opportunity to learn about and experience banking careers. In addition to working at the school branch, students will belong to the Massachusetts School Bank Association and compete in the annual Banking Bowl at Boston's Federal Reserve Bank. Completion of this course may lead to future employment in the banking industry.

### **WORK EXPERIENCE (#0635, #0636, #0637, #0630) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/full year, 5 periods, 5 credits, grade 12) (SCHOOL-TO-WORK)

*Prerequisite: None*

Students in this program will hold, or obtain, a paid position covered under Worker's Compensation in a local business and be responsible for transportation and maintaining continuous employment. Students are dismissed after their sixth period class in order to meet their employment requirements. Attendance, punctuality, and professionalism at school and work are emphasized and monitored by the Work Experience Coordinator. Monthly timesheets, meetings and quarterly projects are required.

*Note: Minimum of ten (10) hours per week.*

## SEMESTER COURSES

### **ACCOUNTING 1 (#0600) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Accounting I is an introductory course on HOW a business keeps track of its financial information. Learn about cash, checks, sales, and expenses. Learn about how financial information is managed and recorded within the accounting cycle. Gain knowledge of service businesses; such as landscapers, cleaning companies, salons, and lawyers; by maintaining their business accounts. Students will complete an accounting simulation for a small service business.

This course will benefit students pursuing a business career, as well as enhancing personal money management skills.

*Note: Students completing Accounting I, II, and III may be eligible for college credits at North Shore Community College.*

### **ACCOUNTING 2 (#0665) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1/ one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: Accounting 1*

This course continues and builds upon the principles learned in Accounting 1. Students will continue to learn accounting theory and principles of a merchandise business organized as a partnership as well as payroll accounting.

*Note: Students completing Accounting 1, 2 and 3 may be eligible for college credits at North Shore Community College.*

### **ACCOUNTING 3 (#0602) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1/ one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisites: Accounting 1 & 2*

This course continues and builds upon the principles learned in Accounting 1 and 2. Students will continue to learn accounting theory and principles. Accounting III will focus on accounting for a merchandise business organized as a corporation as well as uncollectible accounts, depreciation, inventory and notes payable and receivable. This course will teach students the principles involved in computerized accounting and provide students with confidence in the use and understanding of a hands-on automated accounting system. It is designed for students who plan to major in Accounting or Business Administration in an institution of higher learning.

*Note: Students completing Accounting 1, 2, and 3 may be eligible for college credits at North Shore Community College.*

### **BUILDING WEBSITES 1 (#0663) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: None*

Do you want to learn to build your own website? This elective provides students with essential Internet concepts. Students will prepare, design and build websites, using HTML, CSS and Dreamweaver. Students will also be introduced to Google Sites and Weebly.

### **BUILDING WEBSITES 2 (#0650) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: Successful completion of Building Websites 1*

This course is a continuation of Building Websites 1. Students will build interactive Websites, using HTML/CSS, Dreamweaver, and JavaScript, with an emphasis on page layout. If time permits, students will add Flash to their web pages. Students will be given the opportunity to work on active websites, including the high school's website.

### **COLLEGE WORKS (#0666) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grade 12)

*Prerequisite: none*

This course will guide a senior student through the necessary steps to plan for post secondary options. Topics will include: completing college applications, college essays, scholarships, financial aid forms, MLA writing style reports, resume, and letters. Field trips to and guest speakers from local colleges are included in the research process. College Works teachers work closely with the Guidance Department.

### **COLLEGE WORKS FOR JUNIORS (#0661) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grade 11)

*Prerequisite: none*

This course will guide a JUNIOR student SEEKING EARLY ACTION COLLEGE DECISION through the necessary steps. Topics will include: completing college applications, college essays, scholarships, financial aid forms, MLA writing style reports, resume, and letters. College Works teachers work closely with the Guidance Department.

**DECA 1 (#0671) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisites: None*

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. This class will help students develop and emphasize the importance of solid knowledge base and good personal communication skills. Students will use case studies, role plays and group discussions to explore the problem solving process. Students will learn decision-making skills, such as how to identify problems, brainstorm solutions and then communicate them clearly and efficiently.

*Note: Students enrolled in DECA must join the DECA club.*

**DECA 2 (#0603) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisites: Must have been a member of the DECA Club for at least one year.*

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. This class will develop communication skills in real-life business situations. Students will prepare marketing strategies while working in coordination with local businesses. Students will make pitches to businesses on how to increase sales, exposure and long term success. PVMHS students will be involved in a program called Stand For Kids. This program has been endorsed by National DECA. Students will be exposed to real life business situations.

**EXPLORING TECHNOLOGY TODAY (#0651) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9- 12)

*Prerequisite: None*

This ½ yr graded/un-weighted course will cover the technology skills needed to learn effectively and live productively in an electronic world. Interested in 3D design and printing? Ever wonder what is inside the computer? We will be exploring these topics as well as social responsibility, working with web based software and presentations, animation, game design, and much more. Students will learn to work collaboratively. **STRONGLY RECOMMENDED FOR ALL STUDENTS**

**GAME DESIGN (#0601) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: none*

Using Scratch, a programming language for teens, students will learn how to easily create computer games, interactive stories, graphic artwork, computer animation, and a variety of other projects. This introductory class provides a foundation to students who may have an interest in creating computer games as well as satisfying the needs of the computer hobbyist.

**GOOGLE VS MICROSOFT (#0662) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: None*

Can't decide which platform is for you? Explore them both! Discover the similarities and differences between Google Drive and Microsoft Office Desktop and Online(OneDrive) versions. Students will be introduced to Docs, Sheets and Slides as well as Word, Excel, and PowerPoint to create professional documents. A must for all students!

**GOOGLE MANIA (#0612) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: None*

How would you like to share your calendar, access your email, create and share documents, or create your own website all online anywhere you have Internet access? Let this course be your "passport" to all things Google. Students will be given an opportunity to explore Google and its many web-based tools and learn the skills needed to be productive and efficient in their use of Google Apps.

**INTRODUCTION TO BANKING AND FINANCE (#0631) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 2.5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

The history of money, banking, and other financial institutions are studied. Students will explore the principles and practices of banking and credit in the United States. An overview of financial services, including information on human resources, marketing, security and ethics will be integrated. The Teller's Handbook, banking simulations, internet, and financial activities will encourage students to learn by doing. Students will increase their economic literacy knowledge and develop personal and financial skills.

**KEYBOARDING (#0660) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Students will learn how to type correctly using self-paced keyboarding software. Proper posture techniques and timed writings will be stressed to achieve maximum efficiency keying on the PC. Students are introduced to Microsoft Word as a word processing application. Keyboarding is a fundamental skill for all students.

**MICROSOFT OFFICE 2, 3 (#0610) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(This course may be taken as Microsoft 2 or 3, each course receiving 2.5 credits)

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite:* Microsoft 2 students must successfully complete Microsoft Office 1; OR Google Docs VS Microsoft Office; Microsoft 3 students must successfully complete Microsoft Office 2

**Microsoft 2** students will upgrade/expand their understanding and use of Microsoft Office. Learn when and how to integrate Word, Excel, Access, and PowerPoint. This course is a project based, hands on, learning environment. Create attractive projects while reinforcing your Office skills. Acquire applicable technology skills whether you are heading directly into the business world or planning to attend college. Students enrolled in Microsoft 2 will practice and be given an opportunity to become a Microsoft Office Specialist in Word.

**Microsoft 3** students will continue to enhance their skills in the use of the MS Office Suite with a concentration on integration. This course measures proficiency through a simulation based, hands on, independent learning environment. Students enrolled in Microsoft 3 will practice and be given an opportunity to become a certified Microsoft Office Master. Masters must successfully pass Expert tests in Word and Excel as well as Specialist tests in Access and PowerPoint.

*Note: Students completing Microsoft Office 1, 2, and 3 may be eligible for college credits at North Shore Community College.*

**MONEY AND INVESTING (#0652) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Play the Stock Market Simulation Game. What would you do with \$100,000.00 to invest in the stock market? Money and Investing prepares students to become financially literate. Investing basics will be taught exposing students to CDs, IRAs, mutual funds, insurance, budgeting, renting and purchasing a home. This course will include the use of a computer lab.

**SPORTS AND ENTERTAINMENT MARKETING (#0670) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Students will encounter and learn about the key functions of marketing and how those functions are applied to the sports and entertainment industries. Learn about amateur, college, and professional sports and their marketing strategies. Determine how products and services are marketed through sports and entertainment. Develop marketing plans for sports and entertainment events. Each marketing function is incorporated throughout the course. Students will learn marketing concepts within the framework of a topic with high levels of interest and excitement. Students will be exposed to legal issues pertaining to the industries as well.

**STARTING YOUR OWN BUSINESS (#0664) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

Starting Your Own Business provides students with information on becoming an entrepreneur, selecting a type of business ownership, developing a business plan, marketing your business, personnel, financing, and protecting your business. This course helps students learn to identify, develop, and apply their abilities, skills, and goals in the business world. Learning business terms and principles offers the students a foundation for pursuing a degree in Business Administration.

**YOU AND THE LAW 1 (#0667) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

In a litigious society, any student would benefit from a brief introduction to the law itself and laws in general. Students will profit from an early investigation of criminal law, civil law, and procedural law. With this foundation, students are now ready to consider contract law, the heart of both business law and personal law. Contract law establishes the ground rules that ordinary people can use to define their private rights and duties along with the rights and obligations of businesses and other individuals.

*Note: Students completing You and the Law I and II may be eligible for college credits at North Shore Community College.*

**YOU AND THE LAW 2 (#0669) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

You and the Law 2 looks at contracts, sales agreements, consumerism, and other legal issues that confront students every day and present them in a concise, compelling manner to make them understandable and relevant. As students become more familiar with these underlying concepts, they will better understand the importance of the law in general, become familiar with relevant specific law, while exploring the applications of law both in business situations and in more familiar personal transactions. You and the Law 1 and 2 do not have to be taken in sequence.

*Note: Students completing You and the Law 1 and 2 may be eligible for college credits at North Shore Community College.*

# CAREER AND TECHNICAL EDUCATION PROGRAMS

## EXPLORATORY

### **EXPLORATORY (#1300) (SR 2A, 2B , 2C, 2D, 2E)**

(College Prep 1, full year, 1 period, 5 credits, grades 9 or 10)

*Prerequisite None*

This course is designed to introduce students to the Career and Technical Education (CTE) programs offered at Peabody Veterans Memorial High School. All first year students in our CTE programs will take “Exploratory.” In this course students will explore all five technical programs offered at PVMHS. Students will enhance their educational foundation in core subjects and apply it in real world situations. Activities introduce students to career options and career planning as well as the academic requirements of each program. This is a valuable opportunity for students to spend time immersed in each program and gain insight into career and postsecondary options available. Students will rotate through each of the following programs: Cosmetology, Culinary Arts, Early Childhood Education, Electronics and Engineering, and Medical Assisting. Students will have the opportunity to re-explore a career pathway program in more depth during the second semester.

## COSMETOLOGY

Cosmetology is the study of the theory and enhancement of the hair, skin, and nails. The cosmetology curriculum is a two-year competency based program designed to prepare the student for entry-level positions in the field of hairdressing. Successful completion of the two-year curriculum will qualify the graduate to take the State Board of Registration in Hairdressing examination for licensure as a professional cosmetologist. State license as a professional cosmetologist is required for employment in the field of cosmetology. Students must complete 1,000 shop hours and they must pass the State Board of Hairdressers Examination to become certified as a professional cosmetologist.

*\*Students are required to purchase uniform and cosmetology kit. Information may be found on PVMHS Cosmetology Website.*

### **INTRODUCTION TO COSMETOLOGY (#1267) (SR 2A, 2B , 2C, 2D, 2E)**

(Unleveled, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: None*

In this course, students will gain an overview of the cosmetology field. Students will explore career opportunities, improve communication skills, and develop an understanding of terminology used within the cosmetology industry. Emphasis will be on developing a solid foundation on professional practices and safety within the cosmetology lab environment. Course topics include areas covered under the Massachusetts State regulations for Cosmetology and hazardous duty Standards act Compliance. This is a one semester class and cosmetology students are strongly recommended to take Introduction to Business for the other semester.

### **COSMETOLOGY 1 (#1260) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 15 periods, 15 credits, grade 11)

*Prerequisites: EXPLORATORY*

Cosmetology 1 is a competency based introduction to the fundamentals of hair design. The student will achieve required manual skills in hair shaping and design, manicuring, permanent waving, shampooing and rinsing, scalp and hair care, and personal hygiene. (Prerequisite: Exploratory)

### **COSMETOLOGY 1 RELATED SCIENCE (#1261) (SR 2A, 2B , 2C, 2D, 2E)**

(College Prep 1, full year, 5 periods, 5 credits, grade 11)

*Prerequisite: EXPLORATORY*

This course is a required course for students enrolled in Cosmetology 1. Students will achieve academic competency in the study of bacteriology, sterilization and sanitation, theory of manicuring, theory of massage, the nail and disorders of the nail, the hair and disorders of the scalp and hair, and theory of basic design.

### **COSMETOLOGY 2 (#1265) (SR 2A, 2B 2C, 2D, 2E)**

(College Prep 1, full year, 15 periods, 15 credits, grade 12)

*Prerequisite: Cosmetology 1*

Cosmetology 2 is a competency-based curriculum designed for the second year student. The student will learn advanced techniques in hair shaping, hairstyling, permanent waving, and hair coloring, chemical hair relaxing, thermal hair straightening and will complete the required standards to be examined for state licensure.

## **COSMETOLOGY 2 RELATED SCIENCE (#1266) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: Cosmetology 1 Related Science*

Students will study chemistry, as applied to the study of cosmetology, cell growth and reproduction; integrated color theory; anatomy and physiology; electricity and light therapy, and the theory of facial makeup. All cumulative theory will be reviewed to prepare for the Standard for State Board examination.

## **CULINARY ARTS**

Culinary Arts is an instructional program that prepares individual students in food technology skills and customer relations while maintaining local sanitation codes in a safe working environment. The mission of the Culinary Arts program is to offer a high-quality multifaceted education that prepare students for employment in the foodservice industry or post secondary education. Students are exposed to a majority of basic tasks in actual live industrial conditions. Junior and Senior students will play a major role in the daily operation of the PVMHS Coffee Shop and The Melting Pot Restaurant.

### **CULINARY ARTS 1 (#1269) (SR2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 2 periods, 10 credits, grades 10-11)

*Prerequisite: EXPLORATORY*

This is the first course of a sequence of three culinary courses which provides students with entry-level skills essential in the profession of culinary arts and baking. Students will learn the safe use of equipment as well as the proper preparation of foods and general exposure to the many careers related to culinary arts.

### **CULINARY ARTS 2 (#1270) (SR2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 2 periods, 10 credits, grades 11-12)

*Prerequisite: Culinary Arts 1*

This is the second course in a sequence of three, which provides students with entry-level skills essential in the cooking and baking areas of restaurant management. Students are introduced to reading and understanding recipes, mixing methods, and the safe operation of equipment. Additional topics include the preparation of and serving of entrée, soups, appetizers and pastries. Students will have exposure to the daily operation of the PVMHS Coffee Shop and The Melting Pot Restaurant.

### **CULINARY ARTS 3 (#1271) (SR2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 3 periods, 15 credits, grade 12)

*Prerequisite: Culinary Arts 2*

This is the third course in a sequence of three that provides students with skills essential to the field of restaurant management, baking, catering and culinary arts. This course enables students to develop advanced skills and focus on key areas of interest within the culinary field. Students who meet the requirements of Coop will be eligible to work in local restaurants as part of their course study.

## **EARLY CHILDHOOD EDUCATION**

The Early Childhood Education Program is a four year course of study that prepares students for further education in the field of early education and careers working with young children. The program includes curriculum on the development of the child from birth through eight years, introduction to teaching, curriculum design, and opportunities to work in our preschool laboratory classroom, Little Tanners.

### **EARLY CHILDHOOD EDUCATION 1 (#1380) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1/Honors, full year, 5 periods, 5 credits, grades 10-11)

*Prerequisite: EXPLORATORY*

**The Developing Child:** This full year course highlights the theories and stages of development of young children from infancy to five years. Topics include: prenatal development and the newborn and continues with the physical, social, emotional, and cognitive growth of children. In addition, students will look at how to provide for the children's needs at each stage of development and the importance of play. Students will have the opportunity to observe in the onsite Little Tanners Preschool in regard to the topics being discussed throughout the year. Students will Begin to develop a professional portfolio and teaching philosophy that will grow with them throughout the program.

### **EARLY CHILDHOOD EDUCATION 2 (#1382) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1/Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Early Childhood Education 1*

**Introduction to Teaching and Learning:** In this course, students begin to examine the basics of classroom design, management, and curriculum. Topics include creating a safe and healthy environment for children, discipline and guidance techniques, and an introduction to curriculum development and writing lesson plans. Students will complete multiple hands-on projects including developing experiences for young children and creating business plans, budgets, and designing learning centers in an Early Childhood classroom. Students have the opportunity to further explore their personal philosophy of education and continue building their portfolio.

**EARLY CHILDHOOD EDUCATION 3 (#1384) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1/Honors, full year, 10 periods, 10 credits, grade 12)

*Prerequisite: Early Childhood Education 2*

**Working with Young Children:** The highlight of this course is lesson planning and work experience with young children. Program topics examine learning experiences for children as well as methods and materials. Students have the opportunity to participate in a practicum experience designing and teaching lesson plans in all curriculum areas. Completion and presentation of their personal philosophy and portfolio creates a capstone experience for seniors completing the program.

## **ELECTRONICS AND ENGINEERING**

The sequential Electronics Program offers students the opportunity to prepare themselves for entry as design, test, or repair technicians in the electronic or computer fields. In addition, students are able to continue their education at a 2 or 4 year college in the technology, engineering, or computer domains. Instructional methodology utilized throughout the electronics program focuses on both theoretical and hands-on learning environments, established from current industries expectations.

**ELECTRONICS 1 (#1280) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 5 periods, 5 credits, grades 10-11)

*Prerequisite: EXPLORATORY*

**AC & DC Circuits:** Electronics 1 is a required subject for students enrolled in their first full year of this program. Students will receive a working knowledge of electronic circuitry. Alternating Current and Direct Current circuit operation is viewed by the student from both the theoretical and practical standpoint. Electronic measurement, test equipment, electronic wiring and soldering, and hand tools familiar to the trade are covered in order to prepare the student for the circuit testing and repair phase of his/her education. Electronic computer simulation programs will be introduced.

**ELECTRONICS 1 RELATED SCIENCE (#1281) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 5 periods, 5 credits, grades 10-11)

*Prerequisite: EXPLORATORY*

**AC & DC Circuits:** Related Electronics Science 1 is a required subject for students enrolled in Electronics 1. Students will be taught the source and fundamentals of electricity. The theoretical standpoint for Direct Current and Alternating Current will be covered. Students will gain an in-depth study of: units and dimensions, meter circuits, Ohms law, powers-of-ten, resistor color codes, voltage, current, resistance, power, capacitance, inductance, series and parallel circuits. Computer software packages will be introduced to the advanced student.

**ELECTRONICS 2 (#1282) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 10 periods, 10 credits, grades 11-12)

*Prerequisite: Electronics 1*

**Semiconductors & Digital:** Electronics 2 offers students extensive training in design and troubleshooting techniques for complex semiconductor circuits. Students will gain practice with semiconductor, amplifier, and operational amplifier circuitry. Appropriate tools, components, and electronic test equipment will be utilized by the student. In addition, students will be exposed to extensive training in the operation and troubleshooting of digital electronics. Digital topics covered include: using logic gates, computer number systems, flip flops, digital systems, and connecting with analog devices. Students will utilize computers to design, simulate, and analyze electronic circuits by use of virtual instrumentation. Computer service and repair will be introduced to the advanced student.

**ELECTRONICS 2 RELATED SCIENCE (#1283) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Electronics 1 Related Science*

**Semiconductors & Digital:** Electronics 2 offers students extensive training in design and troubleshooting techniques for complex semiconductor circuits. Students will gain practice with semiconductor, amplifier, and operational amplifier circuitry. Appropriate tools, components, and electronic test equipment will be utilized by the student. In

addition, students will be exposed to extensive training in the operation and troubleshooting of digital electronics. Digital topics covered include: using logic gates, computer number systems, flip flops, digital systems, and connecting with analog devices. Students will utilize computers to design, simulate, and analyze electronic circuits by use of virtual instrumentation. Computer service and repair will be introduced to the advanced student.

### **ELECTRONICS 3 (#1284) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 10 periods, 10 credits, grade 12)

*Prerequisite: Electronics 2*

**Microprocessors, Technical Knowledge & Skills:** Electronics 3 offers extensive exposure and training in the operation and troubleshooting of microprocessor computers. Use of pin configuration sheets will be covered in-depth. This course is also designed to train students in both software and hardware computer applications. Students will gain hands-on experience in upgrading and maintaining personal computers.

### **ELECTRONICS 3 RELATED SCIENCE (#1285) (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, 5 periods, 5 credits, grades 12)

*Prerequisite: Electronics 2 Related Science*

**Microprocessors, Technical Knowledge & Skills:** Related Electronics Science 3 is a required subject for students enrolled in Electronics 3. Students will be taught the theoretical standpoint for microprocessor computers. In addition, students will receive a theoretical knowledge of both software and hardware computer applications. Students will gain theoretical knowledge in upgrading and maintaining personal computers.

## **MEDICAL ASSISTING**

As healthcare continues to undergo dramatic changes, the need for qualified health care workers remains in high demand. According to the Massachusetts Office of Workforce Development, the healthcare industry remains the largest employer within the North Shore. The Medical Assisting program offers a sequence of course that prepares students to enter the health profession or post-secondary education through a curriculum that includes related theory, clinical practice and real world work experience.

### **MEDICAL ASSISTING 1 (#1307)**

(College Prep 1/Honors, full year, 5 periods, 5 credits, grades 10-11)

*Prerequisite: EXPLORATORY*

**Medical Office, Law, and Ethics:** This course provides the student with knowledge related to the administrative and clerical procedures as well as patient care and clinical procedures that are encountered in an outpatient medical facility and specialty offices. The student will learn how to make appointments, file, create and maintain a medical record/chart, phone etiquette for scheduling office appointments, interpersonal communication skills, complete entry-level skills for medical billing and coding, including basic ICD-10 and CPT codes. Students will also examine the ethical and social issues surrounding the practice of medicine, in particular the relationship between patient, physician and the disease process.

### **MEDICAL TERMINOLOGY (#1310)**

(College Prep 1, one semester, 5 periods, 2.5 credits, grades 10-11)

*Prerequisite: NONE*

This course is designed to expose the student to the “Language of Medicine” through the structures and functions of each body system, as well as related diseases and disorders. The student will learn prefixes, suffixes, and root words needed to build medical terms, while also learning their meanings. Additionally, the student will be taught abbreviations commonly used in the medical field. The student will develop a broad medical vocabulary used by professionals in the medical health field.

### **MEDICAL ASSISTING 2 (#1308)**

(College Prep 1/Honors, full year, 10 periods, 10 credits, grades 11-12)

*Prerequisite: Medical Assisting 1*

**Medical Laboratory Procedures:** The student will prepare patients for physician examination and laboratory testing, organize exam rooms to contain necessary stocked supplies, and the student will demonstrate proper patient positioning for various medical office procedures. The student will review infection control procedures, review signage, and identify proper use of PPE. This course will further assist the students in demonstrating the proper skills necessary to perform laboratory specimen analysis. Specimen collection techniques, performing urinalysis, CLIA waived testing finger sticks and phlebotomy.

### **MEDICAL ASSISTING 3 (#1309)**

(College Prep 1/Honors, full year, 3 periods, 15 credits, grade 12)

*Prerequisite: Medical Assisting 2*

**Advanced Clinical Skills and Internship:** Students will demonstrate all aspects of the medical assisting skills obtained through their medical assisting training at PVMHS, as an intern, with a preceptor facility. These skills will include and are not limited to, direct patient care, clinical vital signs, patient records, appointment scheduling, billing and coding, therapeutic communication, medical ethics, interpersonal skills, patient preparation, laboratory techniques, specimen collection, and various other clinical procedures as performed by medical laboratory assistants. Students will also be exposed to advanced clinical skills such as performing EKGs, phlebotomy, and medication administration.

# ENGLISH DEPARTMENT

## **ENGLISH 9 (#0001, #0002, ) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, College Prep 1, full year, 5 periods, 5 credits)

*Prerequisite: For Honors: 85% in Gr. 8 English; For College Prep 1: 84% and below in Gr. 8 English.*

The language arts program encourages the student to incorporate developed grammar skills into his/her writing habits and oral expression. Literature emphasizes plot, setting, character, mood, theme and genre study and follows a format of definition, examples and application to develop these literature skills. The selections from the anthology and supplementary materials help the students think at the literal, interpretative and evaluative levels.

## **ENGLISH 9 CP2 (#0003) ) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(College Prep 2, full year, 5 periods, 5 credits)

*Prerequisite: <71% in any level of grade 8 or 9*

This English 9 CP2 course is a curriculum designed to address in a small group setting the needs of those students who were unsuccessful in English 8 or 9. Class size is limited and instruction is tailored to helping students get back on a successful academic track while covering the same literary and language arts concepts as the regular curriculum. Students work with staff to improve academic, civic, organization and socialization skills. The same textbooks are used, and works and films alternative to the major literary writings may be substituted.

## **ENGLISH 10 (#0005, #0006, #0007) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits)

*Prerequisite: For Honors: a grade of 85% in English 9, Honors, or 90% in English 9, College Prep 1*

*For College Prep 1: a grade of 70-84% in English 9, Honors, or 80-89% in English 9, College Prep 1*

*For College Prep 2: a grade of 65-69% in English 9, Honors, or 65-79% in English 9, College Prep 1*

To integrate writing, grammar, and usage practice, students in English 10 study and write about types of prose and poetry. Selections and excerpts illustrate narration, description and expository writing and foster research and response. Literature continues a study of genres, structure, style and media and the development of themes, characterization, symbols and tone in various classical and contemporary works.

## **ENGLISH 11 (#0010, #0011, #0012) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits)

*Prerequisite: For Honors: a grade of 80% in English 10, Honors or 90% in English 10, College Prep 1*

*For College Prep 1: a grade of 70-79% in English 10, Honors, or 80-89% in English 10, College Prep 1 or 90 or better in English 10, College Prep 2*

*For College Prep 2: a grade of 65-69% in English 10, Honors, or 65-79% in English 10, College Prep 1*

English 11 decreases emphasis on grammar and usage and increases emphasis on logic, rhetoric, persuasion and research writing. Students analyze plays, novels and shorter selections such as short stories, essays and poems. The excerpts and analyses from the history and development of American literature provide models to imitate and to inspire. The study of literature reviews structure and style, stresses theme and form, and emphasizes understanding tone, symbols and applying critical analysis.

## **ENGLISH 12 (#0015, #0016, #0017) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits)

*Prerequisite: For Honors: a grade of 80% in English 11, Honors, or 90% in English 11, College Prep 1*

*For College Prep 1: a grade of 70-79% in English 11, Honors, or 80-89% in English 11, College Prep 1,*

*or 90 or better in English 11, College Prep 2 For College Prep 2: a grade of 65-69% in English 11, Honors, or 65-79% in English 11, College Prep 1*

English 12 focuses on development and enrichment. Students analyze ideas in literature and life and express these ideas clearly and concisely. To encourage valid and effective expression through practice, the course emphasizes using effective language and organization in analysis, persuasion and argument. A research paper/project is required of all seniors. Students learn America's British literary heritage and consider mankind in changing times from the Anglo-Saxon era to the present. Selections demand close reading and interpretation.

## **ELECTIVE COURSES – FULL YEAR**

### **ADVANCED PLACEMENT LANGUAGE & COMPOSITION (#0009) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(AP level, full year, 5 periods, 5 credits, grade 11, in place of English 11 or as an elective, grade 12)

*Prerequisite: recommended 85% in English 10, Honors; 90% in English 10, CPI; waivers apply.*

This AP course in Language and Composition is designed for the diligent student. While focusing on American and contemporary literature, students immerse themselves in the study of language, rhetoric, viewpoint, tone and their uses in authors' writings. Writing assignments emphasize critical analysis, evaluating the effects of chosen writing techniques and crafting personal writing styles. Students explore intensively representative works from many genres and locales, with the focus on non-fiction, and must expect to participate in class discussions. Students must complete summer reading and are required to take the AP English Language and Composition examination.

### **ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (#0014)**

(Level AP, full year, 5 periods, 5 credits, grade 12 (SR1, 2A, 2B, 2C, 2D) in lieu of English 12 or as an additional elective.

*Prerequisite: recommended 88% in English 11, Honors, 90% in CPI; waivers apply.*

The AP course in English Literature and Composition is designed for the dedicated student. Students immerse themselves in the study and practice of writing, the resources of language, and the study of literature. Extensive writing assignments focus on the critical analysis of literature. Speaking and writing with attention to style, subject and audience refines students' interpretative skills. Students study intensively representative literary works from several genres and periods, stressing texts originally written in English but including readings in translation. Students must complete a thought-provoking summer reading assignment and are required to take the AP English Literature and Composition examination.

## **ELECTIVE COURSES SEMESTER**

### **COLLEGE WRITING (#0062) (SR1, 2A, 2B, 2C, 2D, 3B)**

(Honors, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: 85% in a Composition class and 80% in an Honors or College Prep 1 English class, or Teacher recommendation*

Students develop and refine their essay writing through experience with many essay forms and approaches in a variety of models. Assignments include essay writing in the following areas: exposition, persuasion, comparison/contrast, irony, paradox and satire, and cause and effect. Students practice each type in a workshop/writing process environment with regular access to a computer laboratory.

### **COMPOSITION - MEMOIR (#0061) (SR 1, 2A, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

How do our perspectives help to shape the truth? What ultimately is truth? This course will examine the genre of memoir and its relationship to truth. Some authors we will examine are Tim O'Brien, Ishmael Beah, Frank McCourt, Jeannette Walls, Elie Wiesel, and Maya Angelou. In addition to studying the memoir itself, students will have an opportunity to write their own stories. Using the writers as mentors, students will work with the techniques and styles in the production of their own memoir pieces.

### **CREATIVE WRITING (#0051) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: 80% in an Honors or College Prep 1 English class or teacher recommendation*

Through creative formats such as short stories and poems, each student explores principles of organization and style as a means of giving structure and form to what s/he knows, thinks and feels. Effective writing clarifies those thoughts in order to inform, to entertain and/or to persuade others. Good writing includes revision and is an opportunity to create, drawing on human life, mind and heart. Students have regular access to a computer laboratory.

### **CREATIVE WRITING WORKSHOP (#0052) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: Creative Writing, or 80% in an Honors or CPI or advanced writing English class.*

This course is an advanced form of the Creative Writing course with an emphasis on students being able to fine tune their craft and pursue avenues for publishing their work. This course is recommended for those students serious about writing as a possible future career. Students do much of their work in a computer laboratory environment.

### **FILM STUDIES (#0097) (Sr 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: none*

Film Studies is a semester course focused on analyzing films. Most of us view “movies” as a form of entertainment, something to do on a Friday night. The film, however, offers an alternative communication, challenging the ways in which we make sense of our own world and our own identities. During the course, we will examine the elements of film composition and production, learn the basics of film “language,” and explore the development of film style. In addition, students will engage in extended analysis of film greats such as Alfred Hitchcock, Orson Welles, Martin Scorsese, and Ridley Scott to name a few. Film Studies will also examine the more creative side of filmmaking – creating an original screenplay. This assignment will require students to apply concepts learned throughout the semester into the creation of their own original work.

### **INTRODUCTION TO PHILOSOPHY (#0072) (SR 1,2A,2B,2C,3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

The purpose of this class is to acquaint students with some of the most important issues facing those who wish to live what Plato called “the examined life.” Students will learn to think deeply and critically while they explore issues such as whether or not mankind has free will, what makes a person an individual, and how do we determine what is the right thing to do? We will study everything from Aristotle to Harry Potter in an attempt to connect the wisdom of the ages to our modern lives.

### **JOURNALISM 1 (#0053) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(College Prep 1, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: 80% in writing class or Honors or CPI English class or teacher recommendation*

Journalism is the study of the writing forms and production mechanics of the print media. Students learn article, feature, editorial, caption and headline writing, practice proofreading and editing skills, learn layout technology and the roles of photography and art and address these same forms in the broadcast media. They also study contemporary media, including print, radio, television and the Internet. Topics include reporting, interviewing, media history and ethical responsibilities. Activities include reading newspapers, participating in discussions, writing articles, analyzing media and conducting a web quest. Students help to produce the school newspaper.

### **JOURNALISM 2 – Newspaper Production (#0054) (SR 1, 2A, 2B, 2C, 2D, 3A, 3B)**

(College Prep 1, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: Journalism I*

Journalism II is the laboratory course for producing the school newspaper, The Tanner Times. Students build upon the skills they developed in Journalism I. In addition to interviewing, reporting and writing, students learn about and apply design, layout, technology, photography and public relations knowledge to publications.

### **MODERN & CONTEMPORARY POETS (#0065) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: 82% or above in any level English class and/or teacher recommendation.*

Content in this course covers a range of modern and contemporary poetry written in English. Students explore styles of poetry, techniques, major influences and music relationships. Students evaluate, interpret discuss and practice with the written word and oral reading skills. Students write and read their own poetry and submit for publication as part of studying published work. They have opportunities to connect with the Slam Poetry Club and team.

### **MODERN SHORT STORY SEMINAR/FILM ADAPTATIONS (#0066) (SR 1, 2A, 2B, 2C, 2D 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

The telling of stories has always been a way of imparting culture and wisdom, from the ancient oral traditions to the modern films (motion pictures) of today. This course will focus on the modern short story and the films that have been adapted from them. The development of both the short story and motion pictures as genres will be covered, and the critical theory associated with both genres will be studied and applied. Students will read contemporary authors such as Philip K. Dick, Stephen King, and F.X. Toole and view films such as *Minority Report*, *Apt Pupil*, *Million Dollar Baby*, and *2001: A Space Odyssey*.

### **MYSTERY AND DETECTIVE FICTION (#0067) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

Explore the world of the mystery/detective short story. Using a seminar format, students read and discuss works by Poe, Doyle, Christie, Hammett, Parker, McBain and other contemporary writers of mystery/detective fiction and experience the various types of writing and film dedicated to crime investigation.

**PUBLIC SPEAKING (#0068) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Does your future career require oral presentations? This course prepares students for speaking in any circumstance that requires public speaking – speeches, introductions, toasts, work presentations. Course content emphasizes the proper use of one’s voice as well as the fundamentals of speech, including writing and delivering speeches for specific audiences.

**SAT TEST PREPARATION – English/Mathematics (#0096) (SR 1, 2C, 2D)**

(Unleveled, graded, 5 periods, one semester, 2.5 credits, grades 10 - 12)

*Prerequisite: none. Also recommended for upper grade students who need to pass MCAS.*

Students alternate one week of English instruction with one week of mathematics instruction for the whole semester. This course is designed for those grade 10, 11 and 12 college bound students who will take the Scholastic Aptitude Test (SAT) to qualify for college admission or who need additional study for passing MCAS. Strategies in test-taking are a major focus. Material covered in English includes vocabulary development, reading comprehension, standard grammar usage and approaches to answering the writing prompt. In mathematics, students review the basic types of math problems found on that portion of the SAT, MCAS or other standardized tests (See mathematics course entry).

**SCIENCE FICTION IN FILM AND LITERATURE (#0098) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Science offers both promise and peril, and in this course we will examine how the dangers and benefits of science are portrayed in films and literature. We will read works by Ray Bradbury, Isaac Asimov, Philip K. Dick, Richard Matheson, John W. Campbell, Harlan Ellison, Larry Niven, and others. We will also study classic sci-fi films such as Star Wars, The Thing, I, Robot, Blade Runner, and others.

**SPORTSWRITING (#0055) (SR 1, 2A, 2B, 2C, 2D, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

This writing class uses magazines and/or newspapers and includes outside readings connected with all phases of the world of sports and sports writing. Discussions, readings, media, analyses, projects and several writing assignments comprise the coursework. They may work with the school newspaper, also. Field trips and guest lecturers may supplement the course content.

**THE GRAPHIC NOVEL (#0074) (SR 1, 2A, 2B, 2C, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

Since the early days of the cave men to the hieroglyphics of the ancient Egyptians, society has always used images to help communicate meaning. Recently, graphic novels, or comics, have joined the ranks of this long tradition of merging text with image to create meaning. The Graphic Novel will explore the comic book medium as an effective way of communicating story. Whether it is trying to reflect the tragedy and impact of war in Art Spiegelman’s *Maus* or investigate the complexity of justice and heroism in *The Dark Knight Returns*, graphic novels are a unique and worthy literary phenomenon.

# FAMILY AND CONSUMER SCIENCE DEPARTMENT

## **CHILD DEVELOPMENT 1 (#0770) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This course studies the physical, emotional, social and intellectual growth & development of the infant through the toddler years. Content includes discussions on prenatal development, the importance of good parenting and its relationship to child rearing in today's society. This course provides an excellent background for students who plan to become teachers or those who plan to pursue careers working with young children.

## **CHILD DEVELOPMENT 2 (#0771) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: successful completion of CD 1*

Students who elect this course will study the emotional, physical, social, and cognitive growth & development of children ages 3-6 years old. The students will explore the interactions between heredity & environment and how these affect all areas of growth and development. Students may have the opportunity to observe children in a preschool setting in The Little Tanners Early Childhood Education Program.

## **CHILD DEVELOPMENT 3 (#0772) (SR 2A, 2B, 2C, 2D, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: CD 2*

This course will offer hands on experience working with preschool children in Little Tanners Preschool. The focus of the class will cover the overall development of the preschooler.

## **CLOTHING DESIGN 1 (#0700) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Students will learn the principles of clothing construction by using conventional sewing machines. Students will successfully complete three projects, and learn to work independently, selecting their own patterns and fabrics.

## **CLOTHING DESIGN 2 (#0701) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grade 9-12)

*Prerequisite: Clothing Design & Construction 1*

Students will continue to learn and apply the principles learned in Clothing Design and Construction I. Each student will be required to complete clothing projects that will demonstrate and challenge their level of skill.

## **CLOTHING DESIGN 3 (#0702) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester or full year, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Clothing Design and Construction 1 & 2*

In this course, students advance to more challenging techniques by choosing sportswear, prom and updated patterns and designs. A wider selection of stretch knits; satin, silk and designer fabrics are used. Individuality in custom-made creations is encouraged.

## **CLOTHING DESIGN 4 (#0704) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester or full year, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: Clothing Design and Construction 3*

This class will allow students to learn advanced tailoring techniques and to construct patterns based on their own silhouette. Students will apply previously learned skills and advance their skill level to create clothing that suits their personal lifestyle.

## **DIY CRAFTY SEWING: (#0705) (SR1, 2A, 2B, 2D)**

(unleveled/graded one semester, 5 periods, 2.5 credits, grades 9-12)

Do you ever imagine how fashion and decorating magazines are able to put entire outfits or pull a room together using one of a kind accessories? This course is designed to spark and inspire creativity in crafts and sewing. You will learn how to sew while creating fun, decorative and useful projects. A variety of materials such as fabric, yarn, ribbon, embellishments, and paint will be used to create individual hands-on projects. Tap into your inner creativity and design something special that is a true reflection of you.

## **INTERIOR DESIGN (#1278) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This subject introduces the student to principles used in interior design. Some of the subjects to be covered are the elements and principles of design, American architecture and furniture, room design, window and wall treatments and

career options.

**BAKING BASICS (#1268) (SR2A, 2B, 2C, 2D, 2E)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 10-12)

This course will introduce you to the art of baking. Students will learn the basic principles of baking while producing a wide variety of baked goods in a lab setting.

**FOODS 1 (0740) (SR2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This is a hands on course which provides students with the opportunity to create a variety of foods in the lab. Students will gain an understanding of basic food preparation as well as develop skills and techniques working cooperatively in the kitchen.

**FOODS 2 (#0762) (SR2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: Foods 1*

This course provides students with the opportunity to advance their skills in the kitchen. Students will prepare delicious and creative foods while learning ways to maintain a healthy lifestyle through food preparation.

**INTERNATIONAL FOODS (#0761) (SR2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

This course will lead the students on a culinary and cultural journey around the world. The cuisine and lifestyle of each of the regions, where the various recipes originated, geography and culture will be studied. Students will prepare sample dishes from each region.

**NUTRITION (#0750) (SR2A, 2B, 2C, 2D, 2E)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

This course introduces students to the basic principles of nutrition such as healthy eating habits, disease prevention, exercise, eating disorders, health and wellness. Students will prepare healthy food using natural and fresh ingredients to promote positive eating habits using Harvard School of Public Health Dietary Guidelines & the USDA My Plate Dietary Guidelines.

# FOREIGN LANGUAGE DEPARTMENT

The Foreign Language Department intends to provide each student with the opportunity to achieve literacy and oral proficiency in one or more of the 7 foreign languages offered.

We offer 7 **foreign languages**, more than any public or private high school in the area. See the descriptions for each language below. **Placement exams** are given to 8<sup>th</sup> graders enrolled in a language course at their middle school in order to better place the student at the appropriate level of language skills. A foreign language is an entrance requirement for most colleges. Studying a foreign language is a must have for certain jobs in the areas of medicine/health, banking, real estate, vocational, social community services, government, military, etc. The department participates in educational field trips overseas and has an after school activities club, called the **International Club**.

**Students are encouraged to study more than one language simultaneously.**

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## **FRENCH 1 (#0400, #0401) (SR2A, 2B, 2C, 2D 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none – For Honors placement a grade of 85% or better in a previous language course.*

The emphasis in French 1 is on the acquisition of correct habits understanding and speaking French. Through varied practice, pupils will master the basic patterns of the language.

## **FRENCH 2 (#0402, #0403) (SR2A, 2B, 2C, 2D 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: French 1 or two years of French at the middle school level with a grade of 80% or better; For Honors placement, a grade of 85% or better in French 1*

The aim of French 2 is to continue the work begun in French 1, strengthen and expand the student's control of basic grammatical structures, increase vocabulary and reading ability and introduce cultural differences and similarities.

## **FRENCH 3 (#0404, #0405) (SR2A, 2B, 2C, 2D 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: French 2- For Honors placement, a grade of 85% or better in French 2 Honors or a 90% or better in French 2, College Prep 1*

In French 3, students will be challenged to use their oral and written skills as they explore more thoroughly the manners, customs and history of France.

## **FRENCH 4 (#0406, #0407) (SR 1, SR2A, 2B, 2C, 2D 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: French 3*

French 4 aims at the further development of: 1) the basic language skills with emphasis on reading and composition; 2) a deeper awareness of French culture in the modern world; 3) the responsibility to recognize and promote international human communication and mutual understanding through the medium of a foreign language.

## **FRENCH 5 (#0408) (SR1, SR2A, 2B, 2C, 2D 2E)**

(Honors, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: French 4*

French 5 emphasizes the literary heritage of the French-speaking world while utilizing the French language as the vehicle for all communication in class. In addition to selections from the major contributors to French literature, the contemporary culture and literary scene in the French-speaking world will also be read and discussed.

## **ADVANCED PLACEMENT FRENCH (#0442) (SR2A, 2B, 2C, 2D 2E)**

(Level AP, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: A grade of 85% or better in French 4, Honors)*

This course is intended for the serious and dedicated student who has chosen to develop his/her proficiency in all four-language skills: listening, speaking, reading, and writing. This course prepares students for intermediate and advance college courses by making demands that are equivalent to those of full-year introductory college courses. Students who select this course are required to take the Advance Placement Examination in French. A pre-September assignment is required to be completed.

## **FRENCH 5 (#0408) (Sr1, SR2A, 2B, 2C, 2D 2E)**

(Level AP, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: A grade of 90% or better in French 4*

This course is intended for the serious and dedicated senior student who has chosen to develop his/her proficiency in all four-language skills: listening, speaking, reading and writing. This course prepares students for intermediate and

advanced college courses by making demands that are equivalent to those of full-year introductory college courses. Students who select this course are required to take the Advanced Placement Examination in French. A summer study assignment is required to be completed.

**GERMAN 1 (#0433, #0434) (SR2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none – for Honors placement a grade of 85% or better in a previous language.*

The emphasis in German 1 is on the acquisition of correct habits of understanding, and speaking German. Through varied practice, pupils learn the basic patterns of the language while studying cultural differences and similarities.

**GERMAN 2 (#0435, #0436) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: German 1 or two years of German at the middle school level. For Honors placement, a grade of 85% or better in German 1.*

The aim in this second level subject is to increase oral competence, begin the formal study of grammar, develop writing skills, and to develop reading skills.

**GERMAN 3 (#0437, #0438) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: German 2*

This third year subject provides an expanded program for writing and varied readings from contemporary German materials.

**GERMAN 4 (#0439) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: German 3*

This fourth year begins the development of composition skills and the study of the literature of twentieth century Germany presented in a cultural context. Advanced readings emphasize some of the ways in which Germany, Austria, and Switzerland have contributed to our modern civilization.

**INTERNATIONAL CULTURE THROUGH CONTEMPORARY FILMS**

(Semester Course, 5 periods, 2.5 credits, unlevleed grades 9-12)

*Prerequisite: none*

This course is offered for students who wish to develop their understanding of contemporary cultures around the world. Students will screen, analyze, research and discuss international films in order to learn about contemporary and cultural issues in different parts of the world. Most of the work will be done in class and some movies will have sub-titles. Appropriate background readings, lectures and materials will integrate current films with broad historical, social and cultural contexts of the topics in question. This course will be conducted in English and open to all students.

**ITALIAN 1 (#0460) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

The emphasis in Italian 1 is on the acquisition of correct habits of understanding and speaking Italian. Through varied practice, students learn the basic patterns of the language while studying cultural differences and similarities.

**ITALIAN 2 (Honors #0461) (College Prep 1 #0462) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, Grades 10-12)

*Prerequisite: Italian 1- For Honors placement, a grade of 85% or better in Italian 1*

The aim of Italian II is to continue the work begun in Italian 1, strengthen and expand the student's control of basic grammatical structures, increase vocabulary and reading ability and introduce cultural differences and similarities.

**ITALIAN 3 (Honors #0463) (College Prep 1 #0464) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, Grades 11-12)

*Prerequisite: Italian 2*

This third year subject continues to develop the four basic skills (speaking, understanding, reading and writing) and offers an introduction to Italian literature and history.

**ITALIAN 4 (Honors #0465) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, Grades 11-12)

*Prerequisite: Italian 3*

The aim of this fourth year subject is to give the student an insight into Italian culture through readings in contemporary literature and some in the literary classics.

**LATIN 1 (#0430) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

This first year subject stresses fundamentals; emphasizing learning the forms and syntax that develop skill and confidence in reading Latin and which are prerequisites to understanding literature.

**LATIN 2 (#0431) (SR2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Latin 1*

This second year subject reviews and increases the vocabulary and syntax of first year Latin. The cultural history of Rome is studied.

**LATIN 3 (#0432) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Latin 2*

Students continue translating Latin of moderate difficulty and are introduced to such important authors as Cicero, Virgil, and Ovid.

**MODERN GREEK 1 (#0423, #0424) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none – For Honors placement a grade of 85% or better in a previous language.*

The objective of Modern Greek 1 is to develop correct habits of understanding and speaking Greek. The culture and customs of the Greek people will be examined.

**MODERN GREEK 2 (#0425, #0426) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Modern Greek 1 or a score of 85% or above on the placement exam; for Honors placement a grade of 85% or better in Greek 1.*

In Modern Greek 2 the objective is to increase oral competencies and grammar skills. A more in-depth understanding of Greek culture is pursued.

**MODERN GREEK 3 (#0427, #0428) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Modern Greek II*

Modern Greek 3 offers students the opportunity to use their language skills in the study of Greece, ancient and modern, through its geography, history, customs, and traditions.

**MODERN GREEK 4 (#0429) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Modern Greek 3*

The fourth year of Modern Greek continues the understanding of the Greek language and people through the study of their literature. Students will read classical and modern literature in Modern Greek.

**MODERN GREEK V (#0467) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Modern Greek 4*

This class aims to develop proficiency in comprehension, speaking, reading, and writing by examining selections from the major contributors to Greek literature. Students will further examine the culture of Greek speaking people in various parts of the world with the help of all forms of media: movies, newspapers and magazines, radio programs, Internet, etc.

**PORTUGUESE 1 (#0417, #0418) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none – For Honors placement a grade of 85% or better in a previous language course.*

The emphasis in Portuguese I is the acquisition of correct habits in understanding and speaking Portuguese through the reading of dialogues and practice in the oral use of the language. Writing skills will be developed.

**PORTUGUESE 2 (#0419, #0420) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Portuguese I or a score of 85% or above in the Portuguese Placement Exam; for Honors placement a*

*grade of 85% or better in Portuguese I.*

Portuguese 2 will continue the audio-lingual treatment of the essential components of the language. The study of grammar will continue as well as the reading of dialogues and short paragraphs for reading practice. The life and customs or the people of Portugal and other Portuguese-speaking areas will be studied

**PORTUGUESE 3 (#0421) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Successful completion of Portuguese 2*

This third year subject offers an introduction to Portuguese literature and a study of the history and geography of Portugal and its contemporary culture. Grammar will be taught to emphasize correct writing skills and to prepare for the more difficult reading material.

**PORTUGUESE 4 (#0422) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Successful completion of Portuguese 3*

Portuguese 4 emphasizes the literary heritage of Portugal and Portuguese speaking countries while using the Portuguese language as a vehicle for all communications in class. Current events will be analyzed through the reading of Portuguese magazines, newspapers and current video and TV programs

**SPANISH 1 (#0409) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

The emphasis in Spanish 1 is on the acquisition of correct habits of understanding and speaking Spanish. Through varied practice, pupils master the basic patterns of the language.

**SPANISH 2 (#0410, #0411) (SR 2A, 2B, 2C, 2D, 2E)**

(College Prep 1 or Honors, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: Spanish I or two years of Spanish at the middle school level. For Honors placement, a grade of 85% or better in Spanish 1 or a Placement Exam*

Students will study grammar, develop writing skills, introduce cultural differences and similarities and develop reading skills.

**SPANISH 3 (#0412, #0413) (SR 2A, 2B, 2C, 2D, 2E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Spanish 2 - For Honors placement, a grade of 85% or better in Spanish 2, Honors or a 90% or better in Spanish 2, College Prep 1 or a Placement Exam*

This third year subject continues to develop the four basic skills and offers an introduction to the Spanish novel, a brief study of the history and geography of Spain and of contemporary culture in South America.

**SPANISH 4 (#0414, #0415) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors or College Prep 1, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: Spanish 3. For Honors placement, a grade of 85% or better in Spanish 3, Honors or a 90% or better in Spanish 3, College Prep 1*

The aim of this fourth year subject is to give the students an insight into Hispanic culture through readings in contemporary literature and some of the literary classics.

**SPANISH 5 (#0416) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Honors, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: Spanish IV*

Spanish 5 provides a deeper understanding of the Hispanic literary world and culture and reinforces conversational skills.

**ADVANCED PLACEMENT SPANISH (#0440) (SR1, SR2A, SR2B, SR2C, SR2D, SR2 E)**

(Level AP, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: A grade of 85% or better in Spanish 4, Honors*

This course is intended for the serious and dedicated student who has chosen to develop his/her proficiency in all four-language skills: listening, speaking, reading and writing. This course prepares students for intermediate and advanced college courses by making demands that are equivalent to those of full-year introductory college courses. Students who select this course are required to take the Advanced Placement Examination in Spanish. A pre-September assignment is required to be completed.

## ENGLISH LANGUAGE EDUCATION (ELL) PROGRAM

Students who have limited English proficiency are eligible for placement in an English Language Education (ELE) program. Students whose home language is not English will be recommended for testing and possible placement in this program. Placement of students is based on proficiency, not necessarily grade level.

### **ELL 1 (#0500) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

This is a basic level where students will be introduced to the English language. Students are introduced to basic grammatical rules, vocabulary, simple verb tenses and language structure.

### **ELL 2 (#0501) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Intermediate level, which continues with the study of language structure. Students will build upon communicative skills as well as continue with writing simple sentences to paragraph writing.

### **ELL 3 (#0502) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Advanced level where students will analyze language structure with short paragraphs and essays and will continue to focus on grammatical structures, verb tenses and vocabulary.

### **ELL LITERACY 1 (#0508) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

This is a beginner level elective that is designed for students who seek extra reading and comprehension skills in the English language. This course is usually taken with ELL 1 and ELL Reading 1.

### **ELL LITERACY 2 (#0509) (SR 2A, 2B, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

This is an intermediate level elective that is designed for the student who seeks extra reading, writing, and comprehension skills in the English language. This course is usually taken with level 2 or 3 of proficiency. (ESL 2 or ESL 3)

### **MCAS ENGLISH/ELL (#0521) (SR1, 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, one semester, 5 periods, 2.5 credits)

*Prerequisite: none*

This course will integrate specific strategies that will help the ELL student's performance on the MCAS Exam. This course is open to all 3rd year ELL students who are required to take the MCAS exam, as well as the ELL students who have previously failed the MCAS Exam. (Exceptions by Department Head approval.)

### **PRE-ALGEBRA/ELL (#0516)(SR1, 2A, 2B, 2C, 2D, 3A)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

This course is offered to ELL students who need to review algebraic concepts. This course will offer language and vocabulary support.

### **ELL READING 1 (#0505) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students begin with easy reading structures, vocabulary and introduction to analyzing short stories. This course is taken in addition to ELL 1.

### **ELL READING 2 (#0506) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students will read excerpts from American Literature. Students will gain vocabulary and syntax knowledge by

analyzing prose and narrative. This course is taken in addition to ELL 2.

**ELL READING 3 (#0507) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students will read selections from British and American authors, while building vocabulary through readings as well as to be able to analyze characters, plots, etc. This course is taken in addition to ELL 3.

**SCIENCE 1 /ELL (#0518) (SR1, 2A, 2B, 2C, 2D, 3A, 3B)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students will build on content-based vocabulary while being introduced to various fields of biology including botany, zoology, genetics, and ecology.

**SCIENCE 2 /ELL (#0519) (SR1, 2A, 2B, 2C, 2D, 3A, 3B)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: Science 1 / ELL*

Students will build on content-based vocabulary while being introduced to various fields of earth science including geology, meteorology, oceanography, and space science.

**ELL SUPPORT (#0520) (SR 2C, 2D)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite:* Students must have completed the ELE program and be enrolled in mainstream classes

This course is for students who left the ELL Program and have been mainstreamed into content areas that require a lot of reading. This class will offer support to these students in improving their reading comprehension skills and build academic vocabulary.

**ELL U.S. HISTORY 1 (#0513) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students will get a better understanding of U.S. culture and history through the study of historical events such as Colonial America, Revolutionary War, Civil War, etc.

**ELL U.S. HISTORY 2 (#0514) (SR 2A, 2B, 2C, 2D, 2E)**

(unleveled, graded, full year, 5 periods, 5 credits)

*Prerequisite: none*

Students will get a better understanding of U.S. culture and history through the study of historical events such as the Reconstruction, World War I and World War II and current conflicts.

# HEALTH AND PHYSICAL EDUCATION

## **WELLNESS 1 (#1060)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grade 9).

*Prerequisite: none*

Wellness 1 is required to be taken and passed by all Grade 9 students. It is designed to foster mature decision-making as it covers current information on health issues facing young adults in today's society. The physical activity section of the course will introduce students to the health benefits of exercise and the health related components of fitness.

## **WELLNESS 2 (#1065)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grade 10)

*Prerequisite: Successfully completed course #1060*

Wellness 2 is a required course for all grade 10 students to take and pass. Students will continue their study of critical thinking skills around physical, emotional, and social well-being. Students will use both the classroom and physical activity settings to develop skills for building and maintaining a physically active and healthy lifestyle.

## **WELLNESS 3 (#1070)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grade 11)

*Prerequisite: Successfully completed course #1065*

Wellness 3 is a required course for all grade 11 students that will be introduced to advanced fitness techniques, lifetime fitness activities, and strategies for creating a healthier social and emotional self.

## **WELLNESS 4 (#1075)**

(unleveled /graded, one semester, 5 periods, 2.5 credits. Grade 12)

*Prerequisite: Successfully completed course #1070*

Wellness 4 is a required course for all grade 12 students that will be introduced to advanced fitness techniques, lifetime fitness activities, and strategies for creating a healthier social and emotional self.

## **ADVANCED FITNESS FOR SPORTS (#1081)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: a combined 85% average in all required PE/Health classes*

Advanced Fitness for Sports is a one semester elective course that is offered to all 11<sup>th</sup> and 12<sup>th</sup> grade students. The curriculum is designed, developed and taught by the Health and Physical Education Department. The course focuses on skill development and proper technique of strength training, plyometrics, and a variety of other sports conditioning exercises. Team and Recreational Sports are also utilized as a means of physical activity to promote fitness and appropriate social interaction. This course is accelerated in nature and endeavors to meet the needs of this highly motivated and skilled student who has demonstrated superior achievement in Wellness one, two and three.

## **A HEALTHY START (#1082)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11 & 12)

*Prerequisite Completion of Wellness 1, 2, & 3*

This is a personalized fitness and nutrition course that targets a student's individual health goal/s and personal diet knowledge. The food component of the course will focus on preparing well-balanced meals that promote a healthy lifestyle. It will also discuss how good nutritional practice can promote success in conjunction with a workout program. The exercise component of this course focuses on attaining personal health related goals through fun and innovative movement activities.

## **YOGAFIT COURSE (#1084)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11 & 12)

*Prerequisite Completion of Wellness 1, 2, & 3*

This class is designed for students who are motivated to learn about a variety of fitness activities that involve yoga, Pilates, mindfulness and HIIT training. Students will be able to use yoga and mindfulness practices to help them grow emotionally, socially, cognitively and physically. In addition, students will gain the knowledge to perform numerous training techniques that will enhance their physical activity in and out of school. This class is designed for students who want to advance their personal understanding of their overall health and wellness.

# MATHEMATICS DEPARTMENT

Students are required to complete at least three classes in the Mathematics Department course offerings in order to fulfill the Peabody Veterans Memorial High School graduation requirement. All students who have an Educational Proficiency Plan (EPP) must elect a fourth year of Mathematics from the courses listed below. Curriculum for all levels of Algebra 1, Geometry and Algebra 2 courses are based on the common core state standards.

Students attending summer school for mathematics credit should only enroll if they have failed a required course or have a desire to take a course for enrichment. Students should not substitute summer school courses for regular academic classes.

## **ALGEBRA 1 (#0200, 0201, 0202)**

(Honors, College Prep 1, College Prep 2 full year, 5 periods, 5 credits, grade 9)

*Prerequisite: For Honors: 75% on an Algebra 1 placement test and 80% in Algebra 1 Grade 8*

*For CP1: Below 80% on an Algebra 1 placement test and below 80% in Algebra 1 Grade 8 or 80% in Advanced Pre-Algebra Grade 8*

*For CP2: Below 80% in Advanced Pre-Algebra Grade 8 or Successful completion of Pre-Algebra Grade 8*

In this course students investigate algebraic concepts and structures. Students engage in activities, which require them to identify, analyze and relate the properties of number systems, equations, inequalities, relations and functions. **A graphing calculator is required for Honors. A scientific or graphing calculator is required for CP1 and CP2.**

## **ALGEBRA 2 (#0210, #0211, #0212)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: For Honors: 85% in Geometry H and 90% in Algebra 1 or 90% in Geometry CP1 and 90% in Algebra 1 CP1*

*For CP1: 65-84% in Geometry H; 80% in Geometry CP1; 90% in Geometry CP2 and 80 – 89% in Algebra 1 CP1 or 90% in Algebra 1 CP2*

*For CP2: Below 80% in Geometry CP1 and 65% in Algebra 1 or 65% in Geometry CP2 and 65% in Algebra 1*

This course advances a student's knowledge of Algebra through the study of polynomial, radical, rational, exponential and logarithmic functions. An introduction to trigonometric functions will also be explored, as will a unit geared towards statistics and probability. An emphasis will be on real world problems. **A graphing calculator is required.**

## **GEOMETRY (#0203, #0204, #0205, #0206)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: For Honors: 85% on an Algebra 1 placement test and 90% in Algebra 1 Grade 8; 90% in Algebra 1 CP1*

*For CP1: 80% in Algebra 1 CP1; 90% in Algebra 1 CP2; not open to freshman students*

*For CP2: 65% in Algebra 1; not open to freshman students*

This course introduces students to concepts related to plane, space and coordinate geometry. Students will study planes in space, parallel lines, property of geometric figures, congruence and similarity. Critical thinking skills and logical reasoning will be developed through deductive proofs. **A graphing calculator is required for Honors. A scientific or graphing calculator is required for CP1 and CP2.**

## **INTERMEDIATE ALGEBRA (#0209)**

(College Prep 2, full year, 5 periods, 5 credits, grades 11- 12)

*Prerequisite: Successful completion of Algebra 1 and Geometry with a final average of 65 – 70% in Algebra 1.*

This course is designed to provide students an opportunity to strengthen their algebraic skills prior to enrolling in Algebra 2. This course will use algebraic notation to describe mathematical patterns and emphasize solving first and second degree equations and inequalities. The study of functions, functional notation and the use of linear and exponential functions as mathematical models will be included with emphasis on real world problems. Also included will be a review of the basic properties of exponents and the solution of linear systems. Many of the skills required for mastering the mathematics section of the MCAS Exam will be studied during the course. **A graphing calculator is required.**

## **INTEGRATED MATHEMATICS 1 (not running for 2017 - 2018 school year)**

(College Prep 1, full year, 5 periods, 5 credits, grade 9)

*Prerequisite: Below 85% in Algebra 1 in Grade 8 and /or placement test below 80%*

This is the first of a two-course program, in which students will investigate algebraic concepts and structures, as well as concepts related to plane, space and coordinate geometry. Selected topics in statistics and probability will also be included. **A scientific or graphing calculator is required.**

### **INTEGRATED MATHEMATICS 2 (not running for 2017 -2018 school year)**

(College Prep 1, full year, 5 periods, 5 credits, grade 10)

*Prerequisite: Successful completion of Integrated Mathematics 1.*

This is the second of a two-course program in which students will strengthen their algebraic, geometric and problem solving skills. Students will study quadratic, exponential, logarithmic and radical functions, as well as complete their study of Geometry. **A graphing calculator is required.**

### **REVIEW OF HIGH SCHOOL MATHEMATICS (#0214)**

(College Prep 2, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: Completion of Algebra 2 with a grade of 65% or higher and/or an Educational Proficiency Plan (EPP)*

This course offers a review of the topics studied in Algebra 1, Geometry and Algebra 2 with an emphasis on analyzing and solving real world problems. **A graphing calculator is required.**

## **ELECTIVE COURSES FULL YEAR**

### **ADVANCED PLACEMENT CALCULUS (AB) (#0240)**

(AP, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: 90% in Precalculus H*

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. This course is for the accelerated mathematics student. Students who elect this course are required to take the Advanced Placement Examination in Mathematics. A summer preparation project will be required prior to the beginning of the course. This class is a college level course and is recommended for students who are highly motivated, have exceptional mathematical ability, and have demonstrated excellent mathematical achievement. **A graphing calculator is required.**

### **ADVANCED PLACEMENT CALCULUS (BC) (#0239)**

(AP, full year, 10 periods first semester, 5 periods second semester, 7.5 credits, grade 12)

*Prerequisite: 90% in Precalculus H*

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. You will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. Students who elect this course are required to take the Advanced Placement Examination in Mathematics. A summer preparation project will be required prior to the beginning of the course. This class is a college level course and is recommended for students who are highly motivated, have exceptional mathematical ability, have demonstrated excellent mathematical achievement, and have an interest in pursuing a career in Science, Technology, Engineering, or Mathematics. **A graphing calculator is required.**

### **ADVANCED PLACEMENT COMPUTER SCIENCE (0241)**

(AP full year 5 periods, 5 credits, grade 12)

*Prerequisite: Successful completion of Introduction to Computer Programming or Algebra 2 H: 80% or better; Algebra 2 CPI: 90% or better.*

Advanced Placement Computer Science offers high school students the opportunity to expand their knowledge in the field of computer science and experience the same challenges met by college students in an introductory sequence of courses for computer science majors at most colleges and universities. This course will focus on problem solving and algorithm development and is meant to be the equivalent of a first year college course in computer science. Students who elect the course are required to take the College Board Advanced Placement Computer Science Exam offered in May. (IBM Network, Turbo C++4.5/5.0, JAVA Development Kit).

### **AP STATISTICS AND DATA ANALYSIS (#0220)**

(AP, full year, 5 periods, 5 credits, grade 10 -12)

*Prerequisite: Grade 10: 90% in both Geometry H and English H with permission of current Mathematics Teacher and Statistics Teacher*

*Grade 11: 90% in Algebra 2H or Geometry H and 85% in English H and permission of current Mathematics*

Teacher

Grade 12: 80% in Precalculus H or CPI and 85% in English H or CPI; 85% in College Algebra and Trigonometry and in English H or CPI;

***This class is an elective and should be taken with Algebra 2, College Algebra and Trigonometry, Precalculus and/or Calculus and is not a replacement for these mathematics classes.***

This subject offers an introduction to statistical methods for students with a wide variety of interests. The course provides a background for students entering many fields of study (including economics, psychology, sociology related demographics, and sciences) that use statistical models for research and evaluation of data in the decision making process. Students will gather and explore data, organizing and describing their information through charts and tables. This class is a college level mathematics course and is recommended for students who are highly motivated and have demonstrated excellent mathematical achievement and writing skills. Students who elect this course are required to take the Advanced Placement Examination in Statistics. A summer preparation project will be required prior to the beginning of the course. **A graphing calculator is required.**

### **CALCULUS (#0228)**

(Honors, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: 80% in Precalculus H; 85% in Precalculus CPI or teacher recommendation*

This is an introductory course for students who have successfully completed Precalculus. This course will extend and supplement the Precalculus topics. It will also introduce the student to methods of differentiation, integration, and related applications. This class is a college level mathematics course and is recommended for students who are highly motivated, have exceptional mathematical ability, and have demonstrated excellent mathematical achievement. **A graphing calculator is required.**

### **COLLEGE ALGEBRA & TRIGONOMETRY (#0215)**

(College Prep 1, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: 65-79% in Algebra 2 H; 80-89% in Algebra 2 CPI; 90% in Algebra 2 CP2*

This course offers a well-rounded preparation for more advanced mathematics courses starting with an extensive review of Algebra 2. Additional topics in discrete mathematics and data analysis will give the student a wide variety of experiences connected to many fields of study at the college level. This course will also introduce students to the study of trigonometric functions. Students will solve trigonometric equations and study the application of periodic functions to a variety of fields. Emphasis will be placed on solving real world problems. **A graphing calculator is required.**

### **DISCRETE MATHEMATICS (#0213 )**

(College Prep 1, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: 65%– 89% in Precalculus H; 80% in Precalculus CPI*

Discrete mathematics is important in many fields including business and finance, computer science, industrial design, operations management and physiology. Students will study combinatorics, probability, sequences and series, statistics, graph theory, matrix operations and an introduction to Calculus.

**A graphing calculator is required.**

### **INTRODUCTION TO COMPUTER PROGRAMMING IN JAVA (#0235)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: 80% in Algebra 1 and Geometry mathematics courses*

This course is an introduction to the Java programming language. It introduces students to object-oriented programming concepts and the Java syntax necessary to implement them. Students will be able to write Java applications that use GUI components as well as Java applets for use on the Internet (*IBM Network, JAVA Development Kit*)

### **PRECALCULUS (#0225, #0226)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: For Honors: 85% in Algebra 2 H; Open to students in Algebra 2 CPI or College Algebra and Trigonometry only with teacher recommendation*

(College Prep 1, full year, 5 periods, 5 credits, grades 11 & 12)

*Prerequisite: For CPI: 85% in Algebra 2CPI or teacher recommendation; 80 - 84% in Algebra 2 H; 80% in College Algebra and Trigonometry*

Students will thoroughly investigate exponential, polynomial, trigonometric and logarithmic functions and their applications, as well as analytical geometry, data analysis, and discrete mathematics. This class is a college level course (Pre-AP), is the prerequisite for Calculus and is recommended for students who are highly motivated, have exceptional mathematical ability and have demonstrated excellent mathematical achievement. **A graphing calculator is required.**

### **PROBABILITY, STATISTICS & TRIGONOMETRY (#0271)**

(College Prep 1, full year; 5 periods; 5 credits, grades 11 & 12)

*Prerequisite: Successful completion of Algebra 2.*

This course introduces students to the study of Probability and Statistics. Students will collect, analyze, and interpret numerical information by using real world data. The students will also explore and design surveys, polls and experiments to determine whether the results are valid or biased and form conclusions based on their analyses. This course will also introduce students to the study of trigonometric functions. Students will solve trigonometric equations and study the application of periodic functions to a variety of fields. Emphasis will be placed on solving real world problems. **A graphing calculator is required.**

### **TOPICS IN MATHEMATICS (#0216)**

(College Prep 2, full year, 5 periods, 5 credits, grade 12)

*Prerequisite: Completion of Algebra 2*

This course will study trigonometry and statistics, incorporating a review of topics from previous mathematics courses. Strategies and practice in taking standardized tests will be included. **A graphing calculator is required.**

## **ELECTIVE COURSES SEMESTER**

### **INTRODUCTION TO COMPUTER SCIENCE**

(Honors level, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: 80% or better in Algebra 1*

This semester course provides an introduction to writing code to create computer programs, with an emphasis on program design, code development practices, and common computing problems. Topics include variables, mathematical operators, decision structures, loops, and modularity. All programs are developed using Microsoft Visual Studio, which helps students create programs using a Graphical User Interface. This course is recommended for students who want to see what computer programming is all about, and as a preparation for the more advanced topics covered in the Introduction to Java and AP Computer Science courses.

### **MATHEMATICS STRATEGIES (#0290, #0291)**

(unleveled, graded, one semester, 5 periods, 2.5 credits, grade 9 -10)

*Prerequisite: Grade 9 and 10 students who scored in the failure or needs improvement categories in the Grade 8 MCAS or who failed Grade 8 Mathematics or teacher recommendation.*

This course will investigate strategies for solving different types of problems. Students will learn ways to analyze, formulate a plan of action, and carry out to solution multiple choice, short answer and open response problems. This course is mandatory for all sophomores who failed or scored in the Needs Improvement category in the Massachusetts Comprehensive Assessment System (MCAS) Exam in Grade 8. This class does not count toward the Mathematics graduation requirement. A graphing or scientific calculator is required.

### **MATHEMATICS STRATEGIES (# 0292)**

(unleveled, graded, one semester; 5 periods, 2.5 credits, grades 11- 12)

*Prerequisite: Grade 11 and 12 students who scored in the failure category in the Grade 10 MCAS Exam*

This course will investigate strategies for a variety of types of problems. Students will learn ways to analyze, formulate a plan of action, and carry out to solution multiple choice short answer and open response problems. This course is mandatory for all juniors and seniors who failed the Massachusetts Comprehensive Assessment System (MCAS) Exam in Grade 10. This class does not count toward the Mathematics graduation requirement. A graphing or scientific calculator is required.

### **SAT TEST PREPARATION – ENGLISH/MATHEMATICS (#0096)**

(unleveled, graded, 5 periods, one semester, 2.5 credits, grades 10 – 12)

*Prerequisite: none. Also recommended for upper grade students who need to pass MCAS.*

(A joint effort of instruction.) Students will alternate one week of instruction in English with one week of mathematics instruction for the semester.

This course is designed for those grade 10, 11, and 12 college-bound students who intend to take the Scholastic Aptitude Test (SAT) to qualify for college admission. Strategies in test taking will be a major focus. In addition, material taught will include vocabulary development, reading comprehension, standard grammar usage and approaches to answering the writing prompt. In mathematics, students will review the basic types of math problems found on that portion of the SAT or other standardized tests. This class does not count toward the Mathematics graduation requirement.

### **STATISTICS 2 (#0221)**

(Honors one semester, 5 periods, 2.5 credits Grades 11-12)

*Prerequisite – 80% in AP Statistics and Successfully pass the AP Statistics Exam with a 3 or higher*

This course is a continuation of Statistics and to further students' knowledge of statistics and its applications in

decision making with an emphasis on management and business. Some topics include: confidence intervals and hypothesis tests, linear regression and multiple regression, analysis of variance, chi-square tests, and the principals of non-parametric tests.

# PERFORMING ARTS DEPARTMENT

An integral component of any culture, the performing arts reflect and define our identity as individuals and as a society. Performing arts courses at Peabody Veterans Memorial High School focus on a specific skill set while simultaneously drawing universals from a wide range of disciplines. Our Performing Arts Department offers courses designed for any student with an interest in music or drama. Participating students vary from those who will become intelligent listeners and observers to those students who will use their high school performing arts experience as foundation for a career as a performer or teacher.

## FULL YEAR COURSES

### ADVANCED DRAMA (#0900)

(Honors, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Drama II Instructor approval*

This laboratory course, designed to improve fundamental acting techniques, stresses acting, pantomime, the presentation of scenes, monologues, and short plays for the student body. When possible, the students will perform children's plays for the elementary and middle school students. Students will view and review performances on tape. A mid-year public performance is mandatory and part of the semester grade. Like a performing ensemble, students may enroll in this course over successive years as the specific material for study will change each year.

### CHORALE (#0922)

(Honors, graded, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: by audition*

Chorale is a large mixed vocal ensemble containing a balanced mix of sopranos, altos, tenors and basses and numbering between 35 and 50 students. Admission is by audition or instructor approval. This course provides continued mastery over the basic skills covered in Mixed Chorus. Advanced issues such as balance, blend and interpretation will be addressed. Choral will perform with Mixed Chorus and as a distinct group. Repertoire will represent a variety of choral styles and range in difficulty from level 4 to level 6 (on a scale from 1 to 6). All rehearsals and performances are mandatory with appropriate concert attire.

### CONCERT BAND (#0925)

(unleveled/graded, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none (Requires previous experience playing a band instrument)*

Concert band is an all-inclusive course featuring wind, brass and percussion players. Strong emphasis is placed on performance demonstrating the highest possible standards of playing ability and choice of music. The Concert Band performs at formal concerts, festivals, out of state trips, football games, parades, workshops and community functions. Participation in the Pep Band is mandatory. Pep Band performs at all home football games and in the Memorial Day Parade. Varsity football players and varsity football cheerleaders are exempt from participating in the Pep Band football requirement (but expected to participate in Parades).

### MIXED CHORUS (#0920)

(unleveled/graded, full year, 5 periods, 5 credits, grades 9-12)

*Prerequisite: none*

Mixed Chorus offers a comprehensive approach to the art of singing through large ensemble participation. In addition to an emphasis on vocal production, this course also provides a strong foundation in basic musicianship. Concert repertoire will be drawn from a wide variety of contrasting styles. Students are required to participate in all (quarterly) performances with the appropriate concert attire.

### AP MUSIC THEORY (#0953)

(AP, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Music Theory I*

The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of these goals will be approached by addressing fundamental aural, analytical, and compositional skills using both listening and written exercises. Building on this foundation, this course will progress to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, and the realization of figured-bass notation.

## SEMESTER COURSES

### **BASIC PIANO (#0975)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This one semester course is designed for students who have never taken piano lessons and are truly beginners at the piano. The course will introduce concepts in standard musical notation (reading music), basic level piano repertoire, piano technique and sight-reading. The class is modeled after a lab approach where a concept is introduced and students then reinforce the new material through practice at the piano. This course will satisfy the prerequisite for Music Theory 1 and is strongly recommended for those students with little or no piano skills who are hoping to take Music Theory 1. The enrollment of this class is limited to 15 students. This course may be repeated in subsequent semesters for additional credit with more advanced material.

### **DRAMA 1 (#0960)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This course is a dramatic literature course that includes creativity through pantomime and improvisation. Plays from classic as well as contemporary theater are read and discussed with selected scenes acted out. It also includes fundamental principles of drama, history of the theater, and some stagecraft.

### **DRAMA 2 (#0961)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: Drama I*

While emphasizing the creative aspects of drama, this course concentrates on contemporary theater, playwrights, and trends. Particular emphasis will be on modern tragedy, comedy, and the theater of the absurd. Monologue and scene work is also included.

### **FROM BACH TO ROCK (#0966)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This course is open to any student who enjoys popular American music. Students will study modern American popular music using two approaches. First, students will be listening to and discussing popular music since 1950. The second aspect will be a hands-on, laboratory style approach in which students will have an opportunity to play and learn about basic popular music instruments including piano, guitar, and drums. Electronic music techniques, recording and sound reinforcement will also be addressed. The important social, political and cultural elements of popular music will also be studied and analyzed.

### **GARAGE BAND 101 (#0965)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Capitalizing on the creative philosophy that inspired the Apple software, this course will emphasize an interactive approach to music production. Students will work individually and in small groups to actively improvise and create music on a daily basis. After a review of the expressive interrelation of various musical elements (melody, harmony, rhythm, timbre form), additional topics of study will include MIDI keyboards, looping, voice recording, instrumental effects, song forms, improvisatory techniques and the dynamic relation between repetition and contrast. The enrollment of this class is limited to 20 students.

### **IMPROVISATION (#0950)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

This class will teach the basic techniques of comedic improvisation. The class will focus on short-form improv and will teach students a variety of games and exercises to enhance their improvisational abilities. Emphasis is placed on performance demonstrating the highest possible standards of performing ability and choice of material. Ultimately, the techniques the students acquire will improve their presentational and conversational abilities by strengthening their confidence, intuition and decision-making. This class will teach the basic techniques of comedic improvisation and will focus on short-form improv and will teach students a variety of games and exercises to enhance their improvisational abilities.

### **MUSIC THEORY 1 (#0951)**

(Honors, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Basic Piano, Concert Band, Mixed Chorus, Chorale or Department Head approval*

This course offers the interested student an opportunity to refresh, reinforce, or learn music fundamentals. Material covered will include ear training, composition, notation of pitch and rhythm, meter, intervals, scales, key signatures, triads, figured bass and an introduction to part writing.

### **SMALL ENSEMBLES (#0935)**

(unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Written approval of proposed project by Instructor of Dept. Head*

This course is offered to any student who wishes to focus on a small ensemble or solo project (vocal or Instrumental). This directed study course will afford students daily practice time and a clear performance goal. Beyond intense study of quality repertoire, topics of discussion will include practice strategies, stage presence, memorization, and working with collaborative musicians. Students must participate in at least one public performance during each quarter. Students may repeat this course in subsequent semesters with the understanding that they will progressively study more difficult repertoire.

### **SONG WRITING/MUSIC THEORY 2 (#0952)**

(Honors, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Music Theory 1*

A natural progression of Music Theory 1, this course will continue to emphasize ear training and basic keyboard skills. In addition to working with lyrics, students will explore harmony, voicing, chord choice and accompaniment patterns as important aspects of songwriting. Additional topics of study will include song forms, instrumentation, recording and publishing. Students will perform their own compositions and will also work collaboratively with other class members.

### **STAGECRAFT AND SCENIC DESIGN (#0962)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Students will be actively involved in all aspects of building a stage set. Rigging systems, sound reinforcement, costume and set design and lighting set ups are a major consideration. Major emphasis will be on the current Stage One production. This is a hands-on course. Weekly evaluations contribute greatly to term grade.

### **THE ART OF CINEMA (#0954)**

(unleveled, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: none*

The course considers film making as an art, comparing it to literature and plays and other arts, tracing its technology and chronology, identifying major trends and variations and reflecting on its place in our culture and private lives. Reflection, discussion, analysis and evaluation will focus on the following films viewed in class. Films include: *Citizen Kane, On The Waterfront, Rebel Without A Cause, The Graduate, Singing' in the Rain, Vertigo, Rear Window, Some Like It Hot* as well as more contemporary films. In addition, each student will be required to complete an independent review of a film of critical substance from the list of suggestion or of a substantive film of his/her choice subject to teacher approval.

# SCIENCE DEPARTMENT

## **BIOLOGY 1 (#0300, #0301, #302) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 9)

*Prerequisite: For H: 85% in Grade 8 Science, For CP1: 71-84% in Grade 8 Science, For CP2: <70% in grade 8 Science*

Biology is a lab-based course designed to meet the state standards for high school biology. This course will introduce students to the scientific process of posing and testing hypotheses, while studying the chemistry of life, cell biology, genetics vertebrate anatomy and physiology, evolution and biodiversity and ecology. Students will study life by examining systems from the molecular level through cell biology and genetics, to the tissue and organ level through vertebrate anatomy and physiology, and to the level of organisms and populations through ecology. A solid understanding of the processes of life will allow students to make scientifically informed decisions related to their health and to the health of the planet. This course will involve classroom lessons, demonstrations and discussions, and laboratory work. Grades will be based on the successful completion of class work, lab work and lab reports, class participation, homework, and quiz and test scores. All 9<sup>th</sup> grade students must take this course and the Biology Massachusetts Comprehensive Assessment System (MCAS) Exam.

## **CHEMISTRY 1 (#0303, #0304, #0305) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 10)

*Prerequisite: For H: 85% in Algebra 1, H, or 90% in Algebra 1, CP1 For CP1: 80% in Algebra 1, H or 85% in Algebra 1, CP1 or 90% in Algebra 1, CP2 For CP2: 65% in Algebra 1, any level*

This is an introductory course that covers the Massachusetts Learning Standards, namely properties of matter, atomic structure, periodicity, chemical bonding, chemical reactions and stoichiometry, solutions, acids and bases, gases and kinetic molecular theory. Depth of work and additional material covered will depend on ability level. The honors level course is a math-based course. Honors students will be required to successfully apply upper level math skills and problem solving abilities. All grade 10 students must take this course.

## **ENVIRONMENTAL SCIENCE (#0308) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 2, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: it is strongly recommended that a student pass biology and chemistry before taking this course.*

This lab-based course is a study of the relationships existing between the living and non-living parts of the environment emphasizing the special place that man has in this relationship. Class investigations of local conditions will supplement the classroom discussion.

## **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (#0343) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(AP, full year, 5 periods, 5 credits, grades 10-12)

The objective of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. In this course, students will recognize and investigate environmental problems both natural and human-made, evaluate the relative risks related with these problems, and examine alternative solutions for resolving and preventing them. Students who select this subject are required to take the Advanced Placement Examination in Biology. A summer study assignment is required in this course.

## **BIOTECHNOLOGY APPLICATIONS (#0316) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, full year, 7.5 periods, 7.5 credits, grades 11-12)

Designed to introduce the student to the basic techniques and instrumentation relevant to the field of biotechnology. It is a hands-on approach to learning theory, including cell biology, inorganic chemistry and introducing some organic chemistry. Topics such as aseptic technique, microbial growth, cell culture and DNA isolation will be included in the curriculum. Application of techniques will be used in an individual or group (at the instructor's discretion) science project.

## **ECOLOGY (#0311) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(CP1, full year, 5 periods, 5 credits, grades 11-12)

Ecology is a college-level course dealing with organisms' interaction with one another and with their environments. This course develops an understanding of principles, underlying support, and maintenance of all ecosystems; shows how environmental problems arise as a result of mismanagement; and discusses solutions to environmental problems using ecological principles. An individual or group (at the instructor's discretion) science project will be required.

## **ANATOMY AND PHYSIOLOGY 1 (#0313, #0314) (SR: 1, 2A, 2B, 2C, 2D, 3B)**

(Honors, full year, 7.5 periods, 7.5 credits, grades 11-12)

This course is the study of the structural anatomy of the human body and its physiology. Basic concepts concerning the skeletal, muscular, nervous, respiratory, cardiovascular, digestive, urinary, endocrine, and reproductive systems will be studied. Students planning to enter medical related professions should elect this subject. Students will be required to perform dissections in this course. An individual or group (at the instructor's discretion) science project will be required.

**ANATOMY & PHYSIOLOGY 2 (#0315) (SR: 1, 2A, 2B, 2C, 2D, 3B)**

(Honors full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: 80% in Anatomy and Physiology, Honors or 90% in Anatomy and Physiology CPI or teacher recommendation (#0313, #0314) and Chemistry 1 (#0304, #0305)*

This lab based course offers an in-depth study of the human body and its health problems, and the skills that are necessary to maintain lifelong health. The course builds upon the principles introduced in Anatomy & Physiology and Chemistry 1 as we explore the functioning of the human body both in a state of health and illness. This course requires students to examine health issues at a personal, family and community level. Students will have opportunities to express their opinions on controversial health issues such as stem cell research and cloning. The course will focus on infectious, congenital, and genetic disorders, and the health effects of outside influences such as diet, pollution, and urbanization. Students planning to enter medical related professions should elect this subject. Students will be required to perform dissections in this course.

**ADVANCED PLACEMENT BIOLOGY (#0340) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(AP, full year, 7.5 periods, 7.5 credits, grade 10-12)

Advanced Placement Biology seeks to meet the objectives of a general biology course at the college level. Topics such as biochemistry, molecular and cellular biology, cellular respiration and photosynthesis, genetics, evolution, ecology, and plant and animal systems will be presented in detail. Students who select this subject are required to take the Advanced Placement Examination in Biology. A summer study assignment is required in this course.

**CHEMISTRY 2 (#0324, #0325) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, college prep 1, full year 5 periods, 5 credits, grades 11-12)

Chemistry II deals with the principles of chemical reactions, problem solving, and basic chemical analysis through experimentation. Laboratory techniques will be further developed. An individual or group science fair project (at the instructor's discretion) will be required. This honors level course is a math-based course. Honors students will be required to successfully apply upper level math skills and problem solving abilities.

**ADVANCED PLACEMENT CHEMISTRY (#0342) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(AP, full year, 7.5 periods, 7.5 credits, grades 11-12),

Advanced Placement Chemistry serves the student who wishes to pursue college-level chemistry while still in secondary school. Topics such as the structure of matter, kinetic theory of gases, solution chemistry, chemical equilibrium, chemical kinetics, electrochemistry, organic chemistry, and the basic concepts of thermodynamics will be presented in depth both in the classroom and the laboratory. Students who select this course are required to take the Advanced Placement Chemistry Examination. A summer study assignment is required as is a completed science project.

**ORGANIC CHEMISTRY (#0328) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, full year, 7.5 periods, 7.5 credits, grade 12)

This is a third year chemistry course that will introduce the field of organic chemistry through the identification of various organic molecules and study of the chemistry of their functional groups. The subject will introduce some concepts of biochemistry as well. Various organic chemistry laboratory procedures will be studied including methods of identification and separation. This course is highly recommended for students interested in a career in medicine. An individual or group (at the instructor's discretion) science project will be required.

**PHYSICS (#0322) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(CPI, full year, 5 periods, 5 credits, grades 11-12)

Physics is a science course that deals with such topics as motion, forces, energy, momentum, heat, waves, electromagnetism, and electromagnetic radiation. An individual or group (at the instructor's discretion) science project will be required.

**ADVANCED PLACEMENT PHYSICS C MECHANICS, (#0321) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(AP, full year, 7.5 periods, 7.5 credits, grades 11-12)

Advanced Placement Physics: C is a pre-calculus-based course designed for students interested in pursuing

engineering or science courses at the college level. This course is devoted to kinematics, dynamics, and energy transformations. This plan is consistent with Physics C Advanced Placement Examination. While there are no prerequisites, a healthy work ethic is strongly recommended. A summer study assignment and taking the AP Physics: C test will be required in this course.

**ADVANCED PLACEMENT PHYSICS 1 (#0341) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(AP, full year, 7.5 periods, 7.5 credits, grades 11-12)

Advanced Placement Physics: 1 is an algebra-based course designed for students interested in pursuing engineering or science courses at the college level. This course is devoted to mechanics, electricity and magnetism, thermodynamics, and modern physics and is meant to be a survey of all physics topics. This plan is consistent with the Physics 1 Advanced Placement Examination. While there are no prerequisites, a healthy work ethic is strongly recommended. A summer study assignment and taking the AP Physics: 1 test will be required in this course.

**SURVEY OF ASTRONOMY (#0349) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(CP2, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisites: none*

This lab based course is a basic introduction to stargazing and astronomy. Course content includes the study of our solar system, distant galaxies, and deep space objects such as black holes, and pulsars, the constellations and their myths, and the manned and unmanned space program. Students' use of the PVMHS Planetarium and telescopes is a major part of this course, and the use of equations and mathematical analysis is minimal

**ASTRONOMY 1 (#0350) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(College Prep 1, full year, 5 periods, 5 credits, grades 10-12)

Prerequisite: passing grade in Algebra I and biology of the instructor

College prep level astronomy is a *very* low mathematics, laboratory-based, fun introduction to astronomy. Students will use the school planetarium as the physics and chemistry labs frequently as they learn the constellations and their myths, the motions of the sky, the causes of the seasons, and the nature of the stars. Observational and laboratory activities will reveal how we find the truth about basic astronomical ideas like stars and their colossal distances, how our sun generates energy, supernovae and other galactic calamities, and telescopes.

**ASTRONOMY 1 HONORS (#0345) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, full year, 5 periods, 5 credits, grades 10-12)

Prerequisite: passing grade in Algebra 1 and biology or permission of the instructor

Astronomy 1 Honors is a full-year, laboratory-based introduction to the basic methods and ideas behind our understanding of the cosmos. In the first semester we study the motions of the heavens as seen from earth, the rich history of astronomy including the ideas and achievements of some of the greatest minds in the history of our species. Galileo, Kepler, Newton and Einstein are all studied in the first semester. In the second semester we concentrate on the stars-how they shine, their distances and their births and deaths. We go to the school planetarium and use the physics and chemistry labs frequently throughout the year. The student who elects Astronomy 1 Honors should be at home with basic algebra and some simple geometrical concepts. We do use some math in this class, but nothing too elaborate.

**ASTRONOMY 2 HONORS (#0346) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

Prerequisite: passing grade in either Astronomy 1 Honors or Astronomy I

Astronomy 2 Honors picks up where Astronomy 1 and Astronomy 1 Honors leave off. In the first semester we study our own solar system and its contents by a method known as comparative planetology. Our focus includes not only the planets but comets, asteroids, and meteors as well. In Astronomy 2 Honors we pay particular attention to the manned and unmanned exploration of the solar system. Every single planet in the solar system has been visited by at least one robotic explorer.

In the second semester Astronomy 2 students look at our home galaxy, the Milky Way, and then other distant galaxies as well as the beginning and end of the universe, a study called "cosmology." Like Astronomy 1 and Honors Astronomy 1, Honors Astronomy 2 is also laboratory-based. We will go to both physics and the chemistry labs frequently as well as the school planetarium.

Finish the program! Take Astronomy 2. Don't you want to know how it ends? I mean, the universe itself, of course.

**FORENSIC SCIENCE (#0355) (SR: 1,2A, 2B, 2C, 2D, 2E, 3A)**

(CPI, full year, 5 periods, 5 credit hours, grades 11-12)

*Prerequisite: 80% in CPI Biology & Algebra I*

This course provides an introduction to the principles, procedures, and ethics of forensic science.

The study of forensic science blends content across disciplines, including biology, anatomy, math, physics, toxicology, and medical technology. Using case-study based instruction, this course will allow students to cultivate critical thinking skills while collecting and evaluating data, drawing conclusions based on evidence, and solving problems using deductive reasoning. Students will also become acquainted with the Combined DNA Index System (CODIS) and discuss the ethics of DNA profiles and a national genetic database.

**BIOLOGY REVIEW (#0353) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A)**

(College Prep 2, full year, 5 periods, 5 credits, grades 10-12)

*Prerequisite: Failure in any level of Biology I.*

This Biology R course is a lab-based course with a parallel curriculum designed to address in a small group setting the need of those students who were unsuccessful in Biology 1. Class size is limited to 15 students and instruction is tailored to helping students get back on a successful academic track. This course will re-introduce students to the scientific process of posing and testing hypotheses, while studying the chemistry of life, cell biology, genetics, vertebrate anatomy and physiology, evolution and biodiversity, and ecology. Students will study life by examining systems from the molecular level through cell biology and genetics, to the tissue and organ level through vertebrate anatomy and physiology, and to the level of organisms and populations through ecology. A solid understanding of the processes of life will allow students to make scientifically informed decisions related to their health and to the health of the planet. This course will involve classroom lessons, demonstrations and discussions, and laboratory work. Grades will be based on the successful completion of class work, lab work and lab reports, class participation, homework, and quiz and test scores.

**BIOLOGY STRATEGIES (#0354) (SR: 1, 2A, 2B, 2C, 2D, 2E, 3A,)**

(unleveled, first semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Failing to earn a score of Advanced or Proficient (above 220) on the Biology MCAS exam.*

This Biology Strategies course is designed to address in a small group setting the need of those students who were unsuccessful on their Biology MCAS exam. This course will review the scientific process of posing and testing hypotheses, while studying the chemistry of life, cell biology, genetics, vertebrate anatomy and physiology, evolution and biodiversity, and ecology. Students will study life by examining systems from the molecular level through cell biology and genetics, to the tissue and organ level through vertebrate anatomy and physiology, and to the level of organisms and populations through ecology. This course will involve classroom lessons, demonstrations and discussions, and laboratory work. Grades will be based on the successful completion of class work, lab work and lab reports, class participation, homework and quiz and test scores. This course will be offered in first semester only, leading up to the Biology MCAS exam retake in late January / early February.

# SOCIAL SCIENCE DEPARTMENT

## MANDATORY FULL YEAR

### **UNITED STATES HISTORY 1 – 1776-1900 (#0100, #0101, #102) (SR 1, 2A, 2B, 2C, 2D)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 9)

*Recommended Prerequisite: For Honors: 85-100% in Grade 8 English; For College Prep 1: 84 and below in Grade 8 English*

US History 1 is a course that will examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students will learn about the important political and economic factors, the basic frameworks of democracy and the principles of government, as well as the growth of the nation and sectional conflict during the antebellum era, the Civil War, Reconstruction, and the post-war transformation of the United States into an industrialized world power. Students will learn more advanced techniques of analysis while utilizing both primary and secondary sources.

\*\*\*\*\*U.S. History 1 is a freshmen requirement\*\*\*\*\*

### **UNITED STATES HISTORY 2 - 1900 TO PRESENT (#0110, #0111, #0112) (SR 1, 2A, 2B, 2C, 2D)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 10)

*Recommended Prerequisite: For Honors: 80% US History I, Honors or 90% in College Prep 1  
For College Prep 1: 70-79% in US History, Honors or 80-89% in US History I, College Prep 1.*

U.S. History 2 traces the history of the United States from 1900 to the present. Considerable emphasis upon the understanding of the development of major social, economic, and political events and trends that have shaped an ever changing and accommodating society will be included. Further study will also provide the student with an appreciation of the values and responsibilities of the United States, which have thrust our country to the status of a world leader and power among nations. This course is a graduation requirement for all students.

\*\*\*\*\*U.S. History 2 is a sophomore requirement\*\*\*\*\*A.P. U.S. History may be used to fulfill this requirement.

### **WORLD HISTORY 1789 TO PRESENT (#0120, #0121, #0122) (SR 1, 2A, 2B, 2C, 2D)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 11)

*Recommended Prerequisite: For Honors: 80% US History I, Honors- or 90% in College Prep 1  
For College Prep 1: 70-79% in US History, Honors or 80-89% in US History I, College Prep 1.*

World History 2 surveys human history from the French Revolution to the present, with particular emphasis placed on the tumultuous twentieth century. World History 2 makes extensive use of primary and secondary source materials as the student participates in the work of the historian. The historical origins of contemporary events will be traced to illustrate the lessons of the past and to chart a course for the future.

## FULL YEAR ELECTIVES: ADVANCED PLACEMENT

### **ADVANCED PLACEMENT UNITED STATES HISTORY (colonialism to present) (#0130) (SR 1, 2A, 2B, 2C, 2D)**

(Level AP, full year, 5 periods, 5 credits, grades 10, 11 & 12)

*Recommended Prerequisite: Sophomores: 90% in U.S. History I, Honors*

*Recommended Prerequisite: Juniors: 90% in U.S. History 2, Honors*

*Recommended Prerequisite: Seniors: 90% in World History 2 Honors or 80% in junior year Social Studies A.P. course.*

Offered to sophomores, juniors & seniors, Advanced Placement United States History presents a chronological study of American history from the colonial era to the present while focusing students on the advanced ideas of historical understanding, interpretation, and research. This program prepares students for college courses by making demands upon them equivalent to those of full-year introductory college courses. The course includes analytical reading of primary and secondary source materials, the compilation of primary sources to defend an argument, and effective strategies for preparing a written argument. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

### **ADVANCED PLACEMENT WORLD HISTORY (#0123) (SR 1, 2A, 2B, 2C, 2D)**

(Level AP, full year, 5 periods, 5 credits, grades 11&12)

*Recommended Prerequisite: Juniors: 90% in U.S. History 2, Honors or 80% in sophomore year Social Studies A.P. course.*

*Recommended Prerequisite: Seniors: 90% in World History 2, Honors or 80% in junior year Social Studies A.P. course.*

Unlike some history courses, A.P. World History organizes around a limited number of key concepts instead of a

perceived list of facts, events, & dates and instead focuses on three to four key concepts per historical period. This approach enables students to spend less time on factual recall and more time on learning essential concepts to develop historical thinking skills necessary to explore the broad trends & global processes involved in studying World History. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

**ADVANCED PLACEMENT ECONOMICS (#0129) (SR 1, 2A, 2B, 2C, 2D)**

(Level AP, full year, 5 periods, 5 credits, grades 10, 11 & 12)

*Recommended Prerequisite: Sophomores: 90% in U.S. History 1, Honors*

*Recommended Prerequisite: Juniors: 90% in U.S. History 2, Honors*

*Recommended Prerequisite: Seniors: 90% in World History 2, Honors or 80% in junior year Social Studies A.P. course.*

The course is intended for students who wish to complete an equivalency in one-semester college introductory courses in Microeconomics and Macroeconomics. The Micro portion of the course provides understanding of economics to the functions of individuals & decision makers, both consumers and producers, within the economic system. The Macro portion gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

**ADVANCED PLACEMENT EUROPEAN HISTORY (#0124) (SR 1, 2A, 2B, 2C, 2D)**

(Level AP, full year, 5 periods, 5 credits, grades 11&12)

*Recommended Prerequisite: Juniors: 90% in U.S. History 2, Honors*

*Recommended Prerequisite: Seniors: 90% in World History 2, Honors or 80% in junior year Social Studies A.P. course.*

The course surveys the development of European History from the crises of the fifteenth century to the challenges facing the nations of modern Europe. Topics include the development of political ideas and their relationship to all aspects of European life, the emergence of modern diplomacy, the use of war as an instrument of state, the structure of revolutions, and the growth of European nationalism. College reading and writing skills will be developed through the use of the historical method, critical evaluation of primary and secondary sources, and analysis of historiography. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

**ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS (#0131) (SR 1, 2A, 2B, 2C, 2D)**

(Level AP, full year, 5 periods, 5 credits, grade 12)

*Recommended Prerequisite: 90% in World History 2, Honors or 80% in junior year Social Studies A.P. course.*

Advanced Placement U.S. Government & Politics explores the political theory and everyday practices that direct the daily operation of our government and shape our public policies. The objectives of this course go beyond a basic analysis of how our government “works.” Students will develop a critical understanding of the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. Students will be involved in a variety of learning assignments that will expose them to college level expectations. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

**ADVANCED PLACEMENT PSYCHOLOGY (#0132) (SR 1, 2A, 2B, 2C, 2D, 3A, 3B)**

(Level AP, full year, 5 periods, 5 credits, grades 11- 12)

*Recommended Prerequisite: 90% in World History 2, Honors or 80% in junior year Social Studies A.P. course.*

Advanced Placement Psychology serves the motivated student who wishes to pursue college level Psychology while still in secondary school. This course provides students with the fundamental principles of Psychology, the science of behavior, and mental processes. Topics such as learning, motivation, perception, emotions, personality, methodology, and development will be studied, researched, and applied to everyday life. Methods of instruction include group work, discussion, activities, simulation, role-playing, visualizations, multimedia lessons, as well as lecture. All Advanced Placement students are required to take the College Board A.P. Exam in May of 2014. Successful scoring on the College Board exam provides students the opportunity to earn college credit while in high school.

## FULL YEAR ELECTIVES

### **CONTEMPORARY AFFAIRS (#0133, #0134, #0135) (SR 1, 2A, 2B, 2C, 2D, 3A)**

(Honors, College Prep 1, College Prep 2, full year, 5 periods, 5 credits, grade 12)

*Recommended Prerequisite: For Honors: 85% in World History 2, Honors or 90% or better in World History II, College Prep 1 or 80% in junior year Social Studies A.P. course. For College Prep 1: 65-79% in World History 2, Honors or 80-89% in World History 2, College Prep 1 or 90% in World History 2, College Prep 2*

Contemporary Affairs is a course designed to stimulate, motivate, and involve students so that they may analyze and understand contemporary political, social, economic, and cultural issues. It is designed to have students and teachers confront the issues realistically, examine causes, and seek alternative solutions intelligently.

### **HUMANITIES (#0125) (SR 1, 2A, 2B, 2C, 2D)**

See English Department pages for description.

### **MOCK TRIAL (#0126) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(Unleveled/ graded, full year, 5 periods, 5.0 credits, grades 10-12)

*Recommended Prerequisite: none*

This course will delve into famous criminal and/or civil trials. The purpose of the course is to allow students to understand through role-play these famous trials. Students will have an opportunity to assume the role of judge, defense attorney, prosecuting attorney, juror, witness and defendants. In preparing for the trials and in giving their testimony, students will combine reading, research, writing, speaking and critical thinking skills. Students will be encouraged to participate in the State Mock Trial Competition. The preparation for the state competition will involve some after school prep time by the participants.

## SEMESTER ELECTIVES

### **AMERICAN POLITICS & PROMINENT LEADERS (#0113) (SR 1, 2A, 2B, 2C, 2D)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Recommended Prerequisite: none*

This course is designed to help students understand how our government works and apply those lessons to current political debates to help you become a highly informed citizen. The American Politics component will provide students an intensive review of the United States Constitution and civics education in order to understand the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. It is expected that the student will come to understand the complications of the political process while developing a commendable preparation in assuming the responsibilities of citizenship. The Prominent Leaders component will focus on the presidents of the United States and other elected officials and justices who have played a critical role in shaping the political landscape and direction of the United States. Students may increase their knowledge of United States History in this subject, which offers them a close insight of the inner workings of American politics and the lives of its presidents & other influential officials.

### **THE HOLOCAUST & GENOCIDE (#0114) (SR 1, 2A, 2B, 2C, 2D, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9- 12)

*Recommended Prerequisite: none*

This course is driven by discussion and reflecting on documentaries & films. The overall objective of the Holocaust & Genocide course is to give students a basic understanding of the major human rights atrocities of the 20<sup>th</sup> & 21<sup>st</sup> centuries while raising awareness about the importance of defending human rights and combating racism, prejudice, and intolerance within our own society & the world. Guided by two major questions, “Why did the Holocaust occur?” and “How did it happen?” The Holocaust component of the course will survey the history of the Jewish people, their trials & tribulations in early 20<sup>th</sup> century Europe, and their ordeals under Germany’s Third Reich. The Genocide component of the course will further enhance these lessons & guiding questions by incorporating other genocides during the 20<sup>th</sup> & 21<sup>st</sup> centuries and the world’s political interactions within these events. Aside from classroom resources, students will attend the Human Rights Awareness Conference held at PVMHS and work with resources from the Holocaust Center North in Peabody.

### **POP CULTURE & FILM OF THE 20<sup>TH</sup> CENTURY (#0115) (SR 1, 2A, 2B, 2C, 2D)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Recommended Prerequisite: none*

A social & cultural history course, Pop Culture & Film of the 20<sup>th</sup> Century strives to explore the cultural changes of the 20<sup>th</sup> century and its representations and interpretations through motion pictures. Pop Culture surveys a decade-by-decade look at the changing values & beliefs of Americans and its impact through inventions & technological changes, trends, fashions, & morals. The Film component of the course examines how movies have

played a pivotal role as one of the most influential and popular instruments of mass culture. Students will view a range of movies and evaluate how they reveal, support, mold, & challenge American values & beliefs. Students may increase their knowledge of United States History in Pop Culture & Film of the 20<sup>th</sup> Century, which focuses on the second half of the 20<sup>th</sup> century to explore the major transformations in American life.

### **WORLD GEOGRAPHY (#0116) (SR 1, 2A, 2B, 2C, 2D, 3A)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Recommended Prerequisite: none*

The overall objective of the World Geography course is to give students a basic understanding of geographic concepts and the interactions of the political, physical, cultural, and economic environment. It also provides students with a further understanding of the variety and interdependence of different cultures, the interaction of the world's economic systems, and the importance of conserving the earth's resources.

### **HISTORY OF ESSEX COUNTY (#0103) (SR 1, 2A, 2B, 2C, 2D)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Recommended Prerequisite: none*

This is an informal subject dealing with the maritime, agricultural, religious, political, literary, and manufacturing history of Essex County. The towns of Gloucester, Salem, Danvers, Lynn, and Peabody will be studied in depth.

### **MILITARY HISTORY OF WORLD WAR II (#0104) (SR 1, 2A, 2B, 2C, 2D)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Recommended Prerequisite: none*

World War II effectively stopped the world between 1939 and 1945. To this day, it remains the most geographically widespread military conflict the world has ever seen. In this course, students will explore battles, events, and even personal stories in the European Theater and Pacific Theater of World War II.

### **ECONOMICS (#0105) (SR 1, 2A, 2B, 2D)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none*

Economics covers what students really need to know in order to make wise choices as consumers, investors, voters, and citizens. It is designed to be a course in economic reasoning for students of all ages who may only take one economics course in their life. By teaching economic reasoning in a non-mathematical way, incorporating multimedia resources, and combining it with practical, personal finance, it is truly the one course everyone needs in Economics for Life!

### **MUSEUM STUDIES (#0127) (SR 1, 2A, 2B, 2C, 2D, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Recommended Prerequisite: none*

This course is a cultural study of non-western cultures as reflected in the collections of the Peabody Essex Museum. The course will look at the art, culture and architecture from nations such as China, Japan, Oceania, Hawaii and Native American tribes of the Northwest. The history of these areas will be explored through their connection with Salem from the Great Age of Sail into the present. The collections, museum experts and scholars in these areas will assist in teaching the course. Students will also be introduced to various museum careers and have the opportunity to complete internships at the Museum.

### **PSYCHOLOGY (#0137, #0138) (SR 1, 2A, 2B, 2C, 2D, 3A, 3B)**

(Honors, College Prep 1 one semester, 5 periods, 2.5 credits, grade 12)

*Recommended Prerequisite: For Honors: 85% in World History 2, Honors or 90% in World History 2, College Prep 1 or 80% in junior year Social Studies A.P. course. For College Prep: 80-89% in World History 2, College Prep 1 or 90% in World History 2, College Prep 2*

Psychology is a one-semester subject, which provides students with an introduction to the scientific principles of human behavior. Subject matter includes sensation, perception, learning theory, child development, personality theory, abnormal psychology, group psychology, and social psychology.

### **SOCIOLOGY (#0139, 0140) (SR 1, 2A, 2B, 2C, 2D, 2E)**

(Honors, College Prep 1, one semester, 5 periods, 2.5 credits, grade 12)

*Recommended Prerequisite: For Honors: 85% in World History 2, Honors or 90% in World History 2, College Prep 1 or 80% in junior year Social Studies A.P. course. For College Prep: 80-89% in World History 2, College Prep 1 or 90% in World History 2, College Prep 2*

This program is designed to give students a better understanding of human relationships. By relating their knowledge, students will come to appreciate the relevance of Sociology to their own lives and social experiences. Students will also be made aware of the richness of their culture, its diversity and strengths.

## OTHER

### **YEARBOOK METHODOLOGY (#0128) (SR 1, 2A, 2B, 3B)**

(Unleveled/ graded, one semester, 5 periods, 2.5 credits, grade 11)

*Recommended Prerequisite: none*

This subject will instruct the students in the basic of yearbook layout and design, acquaint them with the methods of copy fitting and type selection, and inform them of the ways in which photography, artwork, and the written word combine to reflect both the theme of the yearbook and student life at PVMHS. Yearbook Methodology is also an extracurricular activity requiring after school meetings. Students in Grade 11 may elect this subject during the second semester.

### **YEARBOOK PRODUCTION (#0141) (SR 1, 2A, 2B, 3B)**

(Unleveled/ graded, one semester, 5 periods, 2.5 credits, grade 12)

*Recommended Prerequisite: none.*

This subject will apply the basics acquired in Yearbook Methodology to actual yearbook production. The student will work on yearbook layouts, experiment with the various special effects available in yearbook production, and learn the importance of working within a deadline schedule. The student will also be exposed to the actual production of the various sections of the PVMHS yearbook, the META. Yearbook Production is also an extracurricular activity requiring after school meetings. Students in grade 12 may elect this subject during the first semester.

# VISUAL ARTS DEPARTMENT

## **ART I (#0800) (SR 1, 2A, 2B, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none; recommended for AP Studio Art Drawing Portfolio or 2D Design Portfolio*

This course is an introduction to drawing. Students will explore dry art materials such as pencil, charcoal, pastels, colored pencils, and mixed media. Studio Art 1 is designed for students interested in furthering their drawing skills through creative and unique projects.

## **ART II (#0801) (SR 1, 2A, 2B, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Studio Art I; recommended for AP Studio Art Drawing Portfolio or 2D Design Portfolio*

This course further develops skills in drawing and begins to incorporate wet materials such as ink, tempera, watercolor, and acrylic paint. Students will begin to create work on a more independent level, preparing them for more advanced art courses.

## **ART III (#0802) (SR 1, 2A, 2B, 2C, 2E)**

(Honors, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: 80+ in Studio Art 2; recommended for AP Studio Art Drawing Portfolio or 2D Design Portfolio*

This is a studio course designed for the student who excelled in Studio Art 1 and 2. Students will work in a variety of materials in order to develop a portfolio of high quality. It will develop the student's knowledge of color, composition, perspective, texture, shape, line, and form in response to artistic problems. Outside work in the form of a sketchbook will be required. Those considering AP Studio Art will begin their portfolio in the junior year.

## **ADVANCED PLACEMENT STUDIO ART (#0803) (SR 1, 2A, 2B, 2D, 2E, 3B)**

(Level AP, full year, 7.5 periods, 7.5 credits, grade 12 only).

*Prerequisites: submit a portfolio of 8 pieces of work to be reviewed by the art faculty in June; summer work will be assigned as part of the contract.*

*Drawing Portfolio: 10 credits in Studio Art 1, 2 and Studio Art 3(90%)*

*2D Design Portfolio: 10 credits in Studio Art 1, 2, & 3(90%), Photo 1, 2, & 3(90%), Digital Photography 1, 2(90%), or Graphic Design (90%)*

*3D Design portfolio: 10 credits in Clayworks 1, 2(90%), Sculpture 1, 2 (90%) or Fine Crafts 1, 2(90%)* AP Studio

Art is a course for highly motivated seniors who are able to work independently. The student will produce artwork of the highest quality and develop one of three portfolios to meet the criteria determined by the National Advanced Placement guidelines. Students must work on an independent project during the year and will be required to submit a portfolio to the AP exam board in May.

## **CERAMICS 1 (#0804) (SR 1, 2A, 2B, 2E, 3A)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none; recommended for AP Studio Art 3D Design Portfolio*

Students will utilize various hand-building techniques to make both decorative and useful objects in clay. They will learn pinch, coil, slab building, and modeling techniques. Each student will have an opportunity to work on the potter's wheel.

## **CERAMICS 2/3 (#0805/0806) (SR 1, 2A, 2B, 2E, 3A)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Ceramics 1; recommended for AP Studio Art 3D Design Portfolio*

Students will work from previous knowledge to develop projects with a theme. Creativity and content will be given the most emphasis. Students will propose independent projects and have more opportunity to practice the potter's wheel.

## **SCULPTURE I (#0807) (SR 1, 2A, 2B, 2C, 2E, 3A)**

(Unleveled/ graded, one semester, 5 periods, 2.5 credits. grades 9-12)

*Prerequisite: none; recommended for AP Studio Art 3D Design Portfolio*

Sculpture I is an exploration of three-dimensional space, form, and texture. Students will work from observation and will also create abstract work. Various materials and techniques will be introduced including plaster, wire, wood and recycled materials.

## **SCULPTURE 2 (#0808) (SR 1, 2A, 2B, 2C, 2E, 3A)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits. grades 10-12)

*Sculpture 1 recommended for AP Studio Art 3D Design Portfolio*

Sculpture 2 is a continuation of Sculpture I where refinement of techniques and craftsmanship are stressed. Students will work in a variety of media including clay, plaster, paper-maché, wood, and mixed media. Students are encouraged

to stretch their imaginations and learn through experimentation and problem solving.

**DARKROOM PHOTOGRAPHY 1 (#0810) [TECH PREP] (SR 1, 2A, 2B, 2C, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: none; recommended for AP Studio Art 2D Design Portfolio*

Students will work in the dark room to learn the fundamentals of black and white photography. They will learn how to operate a 35mm SLR camera, process film, print, and enlarge negatives. Students may sign out school equipment as needed. Lab fees may be incurred.

**DARKROOM PHOTOGRAPHY II (#0811) [TECH PREP] (SR 1, 2A, 2B, 2C, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Photo I; recommended for AP Studio Art 2D Design Portfolio*

Students will continue working in the dark room. Picture taking, film development, and printing concepts will be refreshed and reinforced. Imagery, technique and content will be given greater emphasis. Some alternative processing techniques will be introduced. Students may sign out school equipment as needed. Lab fees may be incurred.

**ALTERNATIVE PHOTOGRAPHY\* (#0812) [TECH PREP] (SR 1, 2A, 2B, 2C, 3A, 3B)**

(Honors, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: Darkroom Photography I & Digital Photography I*

Students will take photography to the next level by applying their knowledge of darkroom & digital techniques to alternative photo processes. In this class, students will learn how to print images on different surfaces such as wood, fabric, and glass. They will also explore cyanotypes, image transfers, polaroids, and mixed media approaches to photography.

**DIGITAL PHOTOGRAPHY 1 (# 0813) [TECH PREP] (SR 1, 2A, 2B, 2E, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 9-12)

*Prerequisite: Darkroom Photography I*

*Recommended for AP Studio Art 2D Design Portfolio*

Students will use digital cameras to create original artwork using Adobe Photoshop as their digital darkroom. Emphasis will be placed on camera use, photographic editing, composition, and creativity. Students may sign out school equipment as needed.

**DIGITAL PHOTOGRAPHY 2 (# 0814) [TECH PREP] (SR 1, 2A, 2B, 2E, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Digital Photography I; recommended for AP Studio Art 2D Design Portfolio*

Students will continue their exploration of Adobe Photoshop as a digital darkroom. Advanced editing techniques will be introduced and reinforced and emphasis will be placed on the student's artistic style, creativity/ student voice, and photographic content. Students may sign out school equipment as needed

**TV PRODUCTION 1 (#0816) [TECH PREP] (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10 -12)

*Prerequisite: none*

This subject is designed to develop in students an appreciation of television as a communications medium through the planning, organizing, and production of television programs. Students electing this course must consider that teamwork is essential because the class becomes the production crew that will produce stories for "Good Morning PHS."

**TV PRODUCTION 2 (#0817) [TECH PREP] (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: 80+ in TV Production I*

This course is designed for the serious student of television production. Course participants will be involved in ongoing school productions, working inter-departmentally to aid communication within the school. They will build on what they have learned in TV Production I to produce more sophisticated shows and pieces.

**TV PRODUCTION 3, 4, & 5 (# 0818/ 0819/ 0820) [TECH PREP] (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: 80+ in TV Production 2*

The course is designed for the student who has developed an advanced understanding of how to produce "Good Morning PHS." Students will be responsible for directing, technical directing, audio mixing, video directing, camera work, anchoring, and writing for morning news each day. Students will have to produce outside video in the form of news packages and intros, as well as develop and produce programming of situation

comedies, reality TV, entertainment shows and news magazines. Student work must be at the advanced level and the highest production value as it will be a part of “Good Morning PHS.” Students may enroll for this course over successive years as the specific material for study will change each year.

**VIDEO YEARBOOK (#0821) [TECH PREP] (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: 80+ in TV Production 2*

The course is designed for the student who has developed an advanced understanding of how to produce a professional video. Students will be responsible for pre-production, production, post production, directing, technical directing, audio mixing, camera work, and writing for the senior video yearbook.

**FILM MAKING (#0822) TECH PREP (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 11-12)

*Prerequisite: 80+ in TV Production 2*

The course is designed for the student who has developed an advanced understanding of how to work with the camcorder and produce programming. The student will continue to build upon these skills and will be responsible for writing, developing and producing one or more film (s). The completed films will be aired during the spring film festival. The ability to independently plan productions and meet strict deadlines is required.

**ALTERNATIVE ART MAKING I (#0823) (SR 1, 2A, 2B, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits grades 9-12).

*NO Prerequisite*

This is the perfect class for students who like to make things out of traditional and non-traditional art materials. Students will explore jewelry making, altered books, weaving, fabric dyeing, and recycled art. All levels of art experience are welcome.

**ALTERNATIVE ART MAKING II (#0824) (SR 1, 2A, 2B, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Prerequisite: passed Alternative Art Making I*

This class is a continuation of Alternative Art Making I. Projects are more in-depth and a higher level of skill and independence are expected.

**ANIMATION (# 0825) (SR 1, 2A, 2B, 3A, 3B) [TECH PREP]**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Studio Art I or Graphic Design*

Students will discover various forms of animation including flipbooks, comic books, claymation, and Flash MX. We will create animation by hand and with the use of computers. Students should have their own digital cameras or use the school’s on a limited availability.

**STREET ART (#0826) (SR 1, 2A, 2B, 2C, 2E)**

(Unleveled/graded, one semester, 5 periods, 2.5 credits, grades 10-12)

*Studio Art I.*

This class will focus on fine art and fine art making that emphasizes and explores the community art themes of social change: student empowerment, artistic collaboration, and street art. We will explore a variety of media to create art and possible projects may include murals, posters, graffiti, T-shirts, and altered books. Lab fees may be incurred.

**GRAPHIC DESIGN (#0827) [TECH PREP] (SR 1, 2A, 2B, 2C, 2D, 2E, 3A, 3B)**

(Honors, full year, 5 periods, 5 credits, grades 10-12).

*Recommended for AP Studio Art 2D Design Portfolio*

This subject is offered for the art student who would like to learn more about advertising and commercial art. The course emphasizes the development of an art idea as it relates to its preparation, through mechanical and/or computer designed layouts. Adobe Illustrator will be the main venue for creating artwork.

**HUMANITIES (#0828) (SR 1, 2A, 2B, 2C, 2D, 3B)**

(College Prep 1, full year, 5 periods, 5 credits, grades 11-12)

*Prerequisite: 82% in US History 2 or World History, College Prep 2*

This course will focus on significant figures and works in literature, art, music, philosophy, and history. The Humanities make cultural connections by showing how each age builds upon the past. Students will understand and appreciate human movements that have shaped today’s culture. A team of teachers from the Art, Music, English, and Social Studies departments will share instruction.

# APPENDIX A