

Brownsville Area High School

# *Program of Studies*

**2011 – 2012**



Brownsville Area High School

1 Falcon Drive

Brownsville PA 15417 (724) 785-8200

[www.basd.org](http://www.basd.org)

Dear Student,

This is your program of studies for the 2010-2011 school term. Included are graduation requirements, suggestions to consider as you plan for your area of interest, and course descriptions. A scheduling registration form will be provided. This form is evaluated by teachers and guidance counselors who will be assisting you. Please review this with your family. Study the suggestions, and determine which courses you would like to take. A scheduling date will be set. For your assistance in scheduling, teachers and guidance counselors will be available. The Brownsville Area School Board and the Pennsylvania Department of Education set the graduation course requirements which includes English, Mathematics, Social Studies, Sciences, Technology, Health and Physical Education. Additionally the program includes opportunities for students to express individuality through several different elective courses such as practical arts, humanities and fine arts. Examples include languages, technology education, choir, art and piano.

Dear Parent,

A PROGRAM OF STUDIES and a REGISTRATION FORM for his/her particular grade is available at the School District Web Page at [WWW.BASD.ORG](http://WWW.BASD.ORG). Students will schedule courses for the 2010-2011 school term using the online forms at our web site. Teachers and guidance counselors will be available to assist each student in making positive educational choices. If you have any questions or concerns, please call the guidance office at 724-785-8200. Trained professionals will gladly assist you and your son / daughter in making the most appropriate selections.

### **STATEMENT TO THE NINTH GRADE STUDENTS**

The administration and faculty of Brownsville Area High School believes that the transition from the middle school to high school involves the following areas:

#### **Educational, Social, Vocational and Personal.**

The ninth grade year seems to be the most challenging for many students because of the change in academic demands, school size, course selection, and social pressures. Keeping this in mind, administration and staff will focus on assisting ninth graders in their adjustment to the high school. This is accomplished by providing vocational exploration and guidance. The school will provide social support by offering school sponsored extracurricular and co-curricular activities. Students have access to guidance counselors for advice on academic concerns. Parental involvement is encouraged. An active home support system is essential for student success. Finally, the staff is committed to an individual's uniqueness and the development of each student's highest potential.

#### **Early Student Withdrawal to Attend College:**

To be qualified for consideration for early release for attending college, a student must have completed the junior year and have met the following criteria:

The applicant must have:

- a) A cumulative quality point average of 3.60,
- b) College Board scores of 1,000 or more,
- c) A letter of acceptance from an accredited four-year college or university that acknowledges the colleges understanding that the student has not yet received a high school diploma.

d) The support and written endorsement of their parents.

Students in the gifted program who do not meet the above criteria will be assessed individually in accordance with federal and state guidelines.

### **Graduation Requirements:**

All graduation requirements must be met to be considered for graduation. Final determination will be conducted upon review of a student's completed transcript.

#### Course/Credit Requirement

English 4.0 (Students must schedule and pass one English course per year)

Social Studies 4.0 (credits may vary, courses may change as reflected by the Pennsylvania state standards)

Science/Biology 3.5 (Juniors are required to take Global Science and Science 11)

Mathematics 4.0 All students must take a one credit math class per year.

Computers courses (Students must schedule and pass a minimum of two computer courses).

School to Career - .5 Credits

Health .5 Credit (1 class – usually during the junior year)

Physical Education 2.0 (4 classes – 1 each year)

Arts/Humanities 3.5 (course credits may vary)

Electives 2.0 (course credits may vary)

TOTAL 26.0 credits

Students will not be permitted to graduate unless they have met all requirements to be considered for graduation. Students should not wait until their senior year to attempt to make up failed courses. Seniors not meeting graduation requirements upon the date of graduation will be required to return the following school year. On Line Credit Recovery courses will not be recognized unless approved by the Administration **and are only available for Seniors**. All students are permitted to take summer school courses.

Vo-tech students will receive 3.5 credits from vo-tech each year.

### **Promotion Requirements:**

Promotion will be governed by the following credit requirements:

9th grade students must earn 6.0 credits to proceed to Grade 10.

10th grade students must accumulate 12.0 credits to proceed to Grade 11.

11th grade students must accumulate 19 credits to proceed to Grade 12.

12th grade students must accumulate a minimum of 26.0 credits in appropriate academic areas to be considered for graduation.

## **Graduation Responsibilities:**

In order to receive a diploma, seniors must complete the following:

1. Meet the State and School district credit requirements for graduation and have them verified by the student's counselor.
2. Completion of Senior Project.
3. Pass the PSSA Test
4. Clear all financial obligations (textbook, library, athletic, etc.).
5. Complete disciplinary responsibilities (detention, writing assignments, etc.).
6. Only those students that received all **26** credits will be permitted to participate in the graduation ceremony.

## **GRADUATION PROJECT:**

All students are required to complete a graduation project in order to receive a diploma from the Brownsville Area High School. The project is fully outlined in the Senior Project Guideline Booklet given to each student in their freshman year. Highlights of the requirements are:

Community Service (60 hours)

Write – (2 to 3 page typed report)

Present – (8 to 10 minute presentation to committee)

Create – (project showing experience using power point presentation)

Grade 9 & 10 – (port-folio – work in English class and Community Service – 20 hrs)

## **GRADING STANDARDS POLICY:**

The following policy statements regarding grading standards to be used in determining all course grades are designed to establish consistent standards, promote understanding of those standards by students, parents and teachers, and establish a valid standard of course outcome achievement by the student. The following grading scale is to be used in determining all course grades. Multiple assessments should be employed in determining a grade. This scale will be used district-wide:

93 - 100 = A

83 - 92 = B

73 - 82 = C

65 - 72 = D

55 - 64 = F

**I = Incomplete work that must be made up within 10 days.** If the workload is unusually large, special arrangements can be made with the teacher. The teacher will change the "I" to a letter grade in the subsequent nine weeks grading period. Incomplete grades will automatically result in a 55% after the **10** day grace period. It is the responsibility of the student and the teacher to notify the administrative office of any grade changes.

Any work not made up in the allotted time will result in a failing grade.

- WF = Student has a failing grade at the time of withdraw or withdraws after midpoint of the course (no matter what grade the student had earned up to that time)
- Grades will be awarded on a 9 weeks basis with mandatory and documented parent contact at each 4 1/2 week period.

Contact choices can include:

1 - documented phone calls                      1 - progress report  
1 - parent conferences                          1 – parent portal

The procedure for determining grades in each class must be disclosed to students and parents at the beginning of the course in writing with a copy on file in the school office.

**CLASS RANK:**

Calculated on quality point system with all subjects from Grades 9, 10, 11, and 12. Physical Education, and Band will not be included in any calculations. All students are included in one rank (academic and vo-tech). Students will be permitted to use six weighted classes in the calculation of their class rank. The calculation of highest percentage will be used in case of a tie.

**VALEDICTORIAN AND SALUTATORIAN:**

By the 6<sup>th</sup> week mark of the 4<sup>th</sup> grading period, the Valedictorian and Salutatorian will be selected based upon class rank. The class rank will include GPA and weighted class calculation. Students will be permitted to use six (6) of the weighted classes for class rank. After all B's are counted the calculation of highest percentage will be used in case of a tie. Only students who attend Brownsville Area High School (on-site) for at least the 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grades may be considered.

**Advisors/Mentor:**

An advisor/mentor program will be implemented at the 9 through 12 grade level. This program will focus on a group of students assigned to a teacher for four years. The advisor/mentor will be available for advice, guidance, and general information as the student has need for it. The student advisor/mentor relationship will last for the student's entire term at the high school level. Students and advisor/mentor teachers will meet frequently during the school term.

**GUIDELINES FOR COURSE CHANGES:**

Students should carefully select their courses since changing schedules after classes begin will generally not be permitted. Students will be selecting their courses for the entire year and schedule changes will not be permitted after school begins except under extenuating circumstances.

1. Administrators and/or guidance may substitute a required class for an elective class

**SCHEDULE CHANGES:**

**IMPORTANT NOTICE TO STUDENTS AND PARENTS:**

**BE ABSOLUTELY CERTAIN OF YOUR COURSE SELECTIONS. THERE WILL BE NO STUDENT OR PARENT INITIATED SCHEDULE CHANGES AFTER AUGUST 15, OF THE NEXT SCHOOL YEAR. IF REQUESTED CLASSES ARE UNAVAILABLE OR A SCHEDULE CONFLICT, THE FINAL DECISION WILL BE WITH THE ADMINISTRATION.**

The only changes that will be made in the fall are those that may be necessary to correct an error in our scheduling process. **Once a student is scheduled to attend the Area Vocational Technical School they must remain there for at least one (1) year.**

**GENERAL SCHEDULING NOTES**

In making your selection of courses for the next term, keep in mind your plans for the future. Be sure to register for those courses which you must have to be admitted to the schools and colleges you wish to attend. The guidance counselors will be available to discuss with you the requirements of specific schools or vocations. Call 724-785-8200 to speak to a counselor.

Students will select electives to meet the required 26 credits for graduation. All students must carry five (5) "SOLID" subjects plus electives. A solid subject is defined as a class meeting five periods per week. Ninth grade students planning to pursue the Area Vocational Technical program must successfully complete six (6) credits in their freshman year or plan to attend summer school.

All students are required to participate in a physical education program every year. Students may be excused from strenuous physical exercise upon the recommendation of a physician for reasons of health or physical incapacity. An adaptive physical education program will be assigned to each student. Physical education makeup classes must be completed by an approved summer school program.

#### **HONOR ROLL:**

Scholarship is recognized and encouraged through an academic honor roll. The honor roll is compiled at the close of the second and final nine week marking periods. The honor roll will be computed on the total quality points for a nine weeks basis. To receive recognition as highest honors a student must have 16 or more quality points. To receive recognition as a high honor student the student must have earned 14.4 or more quality points. To receive recognition as an honor student the student must have earned 12.4 or more quality points. A student is disqualified from honors, high honors or highest honors due to the following reasons: Receiving a "D", "F" or "I" disqualifies a student from the honor roll.

#### **REPORTING SYSTEM:**

All grading is performed on a nine (9) weeks basis with mandatory and documented parent contact at each 4 1/2 week period. Parents can view their child's progress in all classes by logging onto Brownsville Area School District's home web page at [WWW.BASD.ORG](http://WWW.BASD.ORG) and logging onto the parent portal. If parents wish an interim report sent home, they are to contact the Guidance Office of the high school. It is the responsibility of the parent or guardian to monitor the student's grades. Conferences with teachers may be scheduled by contacting the Guidance Office at 724-785-8200. All official report cards will be color coded and stamped by school officials.

#### **GRADE REVOCATION:**

Attendance is an important element in successful completion of course requirements. Failure to attend school regularly causes undo hardships on both the student as a learner and the teacher as a presenter. Failure to attend will result in a loss of credit. The grade will be entered into the student's permanent record; however the credit will not count towards graduation or placement in any honors or sports program.

**Arts and Humanities:** Arts and Humanities courses are considered by the state to include the following:

#### **Arts**

Technology Education  
Art  
Fine Arts  
Band /Chorus

#### **Humanities**

Literature  
Languages  
History  
Family Science

**COLLEGE PREP MAJOR:**

- Academic Biology – Academic Chemistry or Honors Chemistry – Global Science – Science 11- Physics
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Pre-Calculus – Integrated (1- 4) - College Algebra
- Academic Comp/Lit (9 –10) – Academic Comp/Lit (11) or Honors English – Academic Comp/Lit (12) or AP English
- Spanish (1-4) or French (1-4)
- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – American Government - Economics
- Required Electives - School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives – Basic Speech – Art (1-3) – Music Appreciation – Music Theory – Current Music Trends – Graphic Communications - TV Lab (1-2) – Business Law – Manufacturing Technology (1-3) – PowerPoint and Access Digital Photography – Food and Nutrition – Adult and Family Roles – Pre-Engineering 1 & 2

**MATH AND ENGINEERING MAJOR:**

- Academic Comp/Lit (9 –10) – Academic Comp/Lit (11) or Honors English – Academic Comp/Lit (12) or AP English
- Academic Biology – Honors Chemistry – Global Science – Science 11- Physics
- Algebra II – Geometry – Advanced Algebra – Trigonometry – Pre-Calculus College Algebra
- Spanish (1-4) or French (1-4)
- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Pre-Engineering (1-2) and Architectural Drafting
- Required Electives – School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives – Basic Speech – Art (1-3) – Music Appreciation – Music Theory – Current Music Trends – Graphic Communications - TV Lab (1-2) – Business Law – Manufacturing Technology (1-3) – PowerPoint and Access Digital Photography

**SCIENCE AND MEDICAL MAJOR:**

- Academic Comp/Lit (9 –10) – Academic Comp/Lit (11) or Honors English – Academic Comp/Lit (12) or AP English
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Pre-Calculus – College Algebra
- Spanish (1-4) – French (1-4)
- Academic Biology – Academic Chemistry or Honors Chemistry – Global Science – Science 11- Anatomy I and II - Physics

- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Required Electives – School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives: Anatomy (1,2) – Zoology (1,2) – Genetics – Organic Chemistry – Basic Speech – Art (1-3) – Music Appreciation – Manufacturing Technology (1-3) – PowerPoint and Access – Pre-Engineering1&2 – Architectural Drafting

#### **EDUCATION MAJOR:**

- Academic Comp/Lit (9 –10) – Academic Comp/Lit (11) or Honors English Academic Comp/Lit (12) or AP English
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Pre-Calculus - Integrated (1- 4) College Algebra
- Academic Biology – Academic Chemistry or Applied Chemistry – Global Science - Science 11- Physics or Physical Concepts
- Spanish (1-4) or French (1-4)
- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Required Electives – School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives: Basic Speech – Art (1-3) – Music Appreciation – Music Theory – Current Music Trends – Choir(s) – Manufacturing Technology (1-3) – Graphic Communications – Piano – Food and Nutrition – PowerPoint and Access

#### **PRE-LAW MAJOR:**

- Academic Comp/Lit (9 –10) – Academic Comp/Lit (11) or Honors English – Academic Comp/Lit (12) or AP English
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Pre-Calculus – Integrated (1- 4) - College Algebra
- Academic Biology – Academic Chemistry or Applied Chemistry – Global Science – Science 11 – Physics or Physical Concepts
- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Spanish (1-4) or French (1-4)
- Business Law
- Required Electives – School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives: Local History – Basic Speech – PowerPoint and Access – Anatomy (1,2) – Banking and Personal Finance – Manufacturing Technology (1-3) – Music Appreciation – Graphic Communications – Intro to Business

#### **BUSINESS SCIENCE MAJOR:**

- English Comp/Lit (9-12), or Academic Comp/Lit (9–12)
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Integrated (1- 4)
- Life Science or Academic Biology – Applied Chemistry – Global Science - Science 11 – Physical Concepts



- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Spanish (1-4) or French (1-4) or Business Law
- Intro to Business – Accounting (1,2) – Banking and Personal Finance – HTML PowerPoint and Access – Marketing Essentials – Entrepreneurship – Business Law – Advanced Computer Applications – Multimedia Technology
- Required Electives – School to Career – Health – Phys. Ed. – Intro to Computers
- Recommended Electives: Basic Speech – Art (1-3) – Music Appreciation – Graphic Communications – Manufacturing Technology (1-3) – Adult and Family Roles

#### **FINE AND PRACTICAL ARTS MAJOR:**

- English Comp/Lit (9-12), or Academic Comp/Lit (9–12)
- Life Science or Academic Biology – Applied or Academic Chemistry – Global Science - Science 11 – Physical Concepts or Physics
- Algebra II – Geometry - Adv. Algebra – Trigonometry – Integrated (1- 4)
- Civics – Pa History – World History (1-2) – US History/Contemporary US History or AP History – Economics– American Government
- Spanish (1-4) or French (1-4) or Business Law
- Required Electives – School to Career – Health – Phys. Ed – Intro to Computers
- Art (1–3) – Band – Choir – Musical Theory – Musical Theatre – Current Music Trends – Piano – Guitar – Music Appreciation – Food and Nutrition – Digital Photography – Manufacturing Technology (1–3) – Basic Speech – Food and Nutrition – TV (1,2) – Multimedia Media Technology

#### **English:**

\* All College Bound Students are encouraged to take Academic English 9-12 (AP English or Honors English may be substituted for Academic English 12)

#### **Fayette County Area Vo-Tech**

School entry requirements must be met for acceptance in to all courses. An application must be completed and signed by a parent prior to entering the Fayette County Area Vocational Technical School (FCAVTS) courses open for 10-11-12. An overview and course descriptions are available at FCAVTS (724-437-2721 ext. 36) or Brownsville Area High School (724-785-8200).

Courses open for 10 – 11 - 12

#### **Vocational Technical Programs:**

- Agriculture
- Automotive Mechanics
- Auto Body
- Building Trades Occupations
- Carpentry
- Machine Shop
- Cosmetology

- Computer Technology
- Culinary Arts
- Diesel Mechanics
- Drafting and Design
- Electrical Construction
- Graphic Arts
- Health Occupations
- Heating, Ventilation and Air Conditioning
- Hospitality and Hotel Management
- Machine Production
- Masonry
- Welding
- Cooperative Education
- The Fayette County Health Academy
- Veterinarian Technician

**Suggested Vocational Technical Sequence:**

Grade 10

1. English 10 - 1 credit
2. Social Studies - 1 credit
3. Integrated II Math - 1 credit

Grade 11

1. English 11 - 1 credit
2. Science - 1 credit
3. Integrated III Math - 1 credit

Grade 12

1. English 12 – 1 credit
2. Economics/Social Studies - 1 credit
3. Science - .5 credit/ Health - .5 credit

**Articulation with Laurel Business Institute:**

Depending on their area of specialization and academic achievement, students may be exempted from some course work at Laurel Business Institute.

**MASTER COURSE DESCRIPTION LIST:**

**\* Donates Computer Classes**

**101 Accounting I – 1.0 Credit**

Recommendations: None

Accounting I is a comprehensive introduction to accounting. It will give the students a basic understanding of accounting principles and procedures used for recording, classifying, and summarizing financial data. Students will also learn accounting terminology and are introduced to the financial forms, records, and statements used in the business world. Accounting I will prepare students with an adequate foundation for those who wish to continue their education.

### **102 Accounting II/Automated Accounting – 1.0 Credit**

Recommendation: Must have passed Accounting I with a 73% or higher. Accounting II learning activities are directed toward the knowledge and skills needed to prepare for an accounting position following high school graduation. These learning activities also provide advanced preparation for the study of accounting in college. Students will learn to operate the software by entering realistic accounting transactions learned in Accounting I and II. The software, Automated Accounting 7.0 teaches how computers are used in today's accounting applications.

### **110 Business Law – 1.0 Credit**

Recommendation: Junior/Senior status.

STEPS OF TRIAL, STREET / CRIMINAL LAW / SEARCH AND SEIZURE / STUDENT RIGHTS AND RESPONSIBILITIES / HOW TO HANDLE INSURANCE CLAIMS / CONTRACTS – Expand your legal vocabulary and develop awareness of your legal rights and obligations. Students will learn about the various steps of trial by jury and may have the opportunity to compete in mock trial competition. A field trip to a prison and courtroom trial will be experienced.

### **115 Intro to Business – 1.0 Credit**

Recommendation: None

This course will help students prepare for and become a part of the business community. This is done by introducing the student to the world of work and to help prepare them for more meaningful interaction with business. Topics of discussion will include: computer technology, economics, banking, credit and other related matters.

### **\*141 Introduction to Computers – .5 Credit**

#### **\*\*REQUIRED FOR ALL NINTH GRADERS**

This is a four-part course designed to introduce incoming freshman to various computer concepts:

#### **Keyboarding:**

Designed to introduce the student to the touch method keyboarding using the Micro Type 3.0 software. The content includes the presentation of the keyboards alphanumeric, number and symbol keys, and drills on speed and accuracy.

#### **Microsoft Word:**

Designed for students to learn one of the most popular windows based processing packages available today. Students can expect extensive training in creating, editing, saving, and printing documents. Special features such as creating hyperlinks, setting character and paragraph spacing, adding borders and shading, using Wizards, columns, and the drawing toolbar are learned.

#### **Microsoft Excel:**

Designed to introduce students to the popular spreadsheet program, Excel. Students will learn to apply the features of the software to create professional worksheets, as well as charts, graphics, and other applications. Knowledge of this software is highly recommended in many professions and is also being required by many colleges and universities.

#### **Exploring the Internet:**

Exploring the Internet has been designed to de-mystify the Internet and to explore its potential. Working collaboratively and individually, students will solve problems at the same time as they capitalize on the social aspects of global networking and group problem-solving. Students will encounter the joys and the vastness of Internet discovery, as well as the limitations and the frustrations. They will learn how to use the internet as a research tool effectively and efficiently.

**\*142 Advanced Computer Applications – 1.0 Credit**

Recommendation – Passed Intro to Computers

This course is designed to develop an employable skill in information processing on a PC computer by using up-to-date software programs. Students will acquire basic skills and qualifications essential in working with Windows, creating, printing, and editing, Word documents, formatting text and using help, enhancing the visual display and clarity of documents, working with multiple documents, formatting documents, creating and editing tables and exploring the internet. In Excel students will work with the concept of presenting, manipulating and calculating numerical data in columns and rows.

**\*151 PowerPoint and Access – .5 Credit**

This is a two-part course designed to increase the student's knowledge and skill level with Microsoft's PowerPoint and Access programs.

**PowerPoint:**

This course will introduce students to techniques for using Microsoft PowerPoint to enhance presentations and public speaking skills. Students will learn to plan and create presentations, format and enhance presentations, and deliver dynamic and compelling on-screen presentations. This software is widely used in the business world, and required for their senior projects.

**Access:**

Microsoft Access is one of the most popular database software applications used in the professional and educational environment. Database creating and management skills are used for personal, educational, and professional organization of information. This course is designed to teach students how to create tables, forms, and reports. They will also learn to store, sort, and retrieve data.

**\* 152 Multimedia Technology – 0.5 Credit**

Requirement: Junior/ Senior Status

Students will design and apply advanced multimedia techniques (digital photography, animation, graphic design): analyze, select, and apply the appropriate software to solve problems and evaluate the effectiveness of the computer as a presentation tool while analyzing the legal responsibilities of computer users.

**\*180 HTML – 1.0 Credit**

Prerequisite – Sophomore/Junior/Senior status

This course teaches how to code HTML (Hypertext Markup Language) using text editor, which is the foundation of all Web development. Within this broad framework, students will cover many topics, including good design principles, Cascading Style sheets, server-side vs. client-side, Web browsers, and Web servers. This course will conclude with a brief overview of the future of Web development, including XHTML, XML, and Java.

**181 Banking and Personal Finance – 0.5 Credit**

Students will explore the principles and practices of banking and credit in the United States. This course will help students manage their personal finances now and in the future. This program gives insights into how businesses manage their finances and why wise financial management is critical to personal and business success. They will complete real world applications including on-line banking exercises, and completing practical financial applications learning fundamental mathematical concepts.

**182 Marketing Essentials – 0.5 Credit**

Recommendation: None

The course is designed to help students understand all aspects of marketing and make students aware of the marketing efforts that companies use to get consumers and businesses to their product. Marketing topics such as computer technology, global marketplace, marketing for tomorrow's business and careers in marketing will be explored.

**183 Entrepreneurship – 1.0 Credit**

Entrepreneurs have responsibilities to the people they work and deal with as well as to the communities in which they are located. Students will learn business skills in order to create their own business as well as their personal responsibilities to customers, suppliers, investors, creditors and their community. Visiting area businesses and listening to entrepreneurs will enable students to create their own strategic plan to create personal business plans.

**184 Entrepreneurship II – 1.0 Credit**

Advanced Concepts of Business: Theory & Practice Entrepreneurship II extends the foundation of business principles and the connection of implementation with a “business venture.” Students will learn and practice concepts such as: finance, management, marketing, investments. Supervision, philanthropy, and the overall creation of a functional business portfolio. Entrepreneurship II is preceded by Entrepreneurship I.

**201 English 9 Composition – 0.5 Credit**

Recommendation(s): 8th grade reading level.

*\*Must be scheduled with Course 202 English 9 Literature*

The underlying features of the course are the development of self-discipline and special instruction in following directions. The course will emphasize the recognition of parts of speech and correct usage, subject/verb agreement, the four kinds of sentences, and the use of the dictionary. Throughout the entire course spelling and vocabulary study will be stressed. Basic paragraph writing and an outlining unit will be covered with specific attention directed to the different types of writing and a short research paper.

**202 English 9 Literature – 0.5 Credit**

Recommendation(s): 8th grade reading level.

*\*Must be scheduled with Course 201 English 9 Composition*

The five parts of a short story and fundamental literary terms will be presented; reading and understanding short stories will continue throughout the course. Reading and the practical use of the newspaper is an on-going unit. Two mini-novels and one longer novel will be read. In addition to the regular course requirements, students will read independently one (1) novel each grading period.

**203 English 10 Composition – 0.5 Credit**

Recommendation(s): English 9 Composition and Literature.

*\*Must be scheduled with Course 204 English 10 Literature*

This course will focus on using appropriate standard English usage, writing and reviving the four types of sentences to eliminate mechanical errors, varying sentence structure to avoid subject-verb-object patterns, and employing the strategies and techniques of the writing process to write descriptive and narrative paragraphs, essays, and a short research paper. Speeches will also be required.

**204 English 10 Literature – 0.5 Credit**

Recommendation(s): English 9 Composition and Literature

*\*Must be scheduled with Course 203 English 10 Composition*

Literature units will focus on short stories, plays, essays, personal narratives, poetry and a novel. The study of literature will help students to practice oral and written communication skills, problem solving, and critical thinking when applied to the various selections. In addition to the regular course requirements, students will read independently one (1) novel each grading period.

**205 English 11 Composition – 0.5 Credit**

Recommendation(s): English 10 Composition and Literature

*\*Must be scheduled with Course 206 English 11 Literature*

This course will focus on the application of the writing process to develop unified and coherent paragraphs, compositions, a person resume' and a research paper. The study of grammar will occur as a result of patterns of errors found in the students' writing. Peer and teacher conferences will be used to help students revise for both lower and higher order concerns.

**206 English 11 Literature – 0.5 Credit**

Recommendation(s): English 10 Composition and Literature

*\*Must be scheduled with Course 205 English 11 Composition*

Literature units will focus on short stories, plays, essays, personal narratives, poetry written by classic and contemporary American authors as well as reading a longer drama and a novel. Oral communication skills, speeches, problem solving and critical thinking skills will relate to writing and literature assignments. In addition to the regular course requirements, students will read independently one (1) novel each grading period.

**207 English 12 Composition – 0.5 Credit**

Recommendation(s): English 11 Composition and Literature

*\*Must be scheduled with Course 208 English 12 Literature*

The focus of the course will be to achieve competence in writing through the practical application of the techniques and strategies used in the writing process. The student will write a research paper, a variety of essays, and examples of formal communication encountered in real life situations. The development of effective oral communications skills and critical thinking and problem solving will be emphasized in connection with both writing and literature units.

**208 English 12 Literature – 0.5 Credit**

Recommendation(s): English 11 Composition and Literature

*\*Must be scheduled with Course 207 English 12 Composition*

Literature units will include the study of a Shakespearean play, a novel and short stories, plays, essays, poetry and personal narratives which deal with contemporary themes and problems. ). In addition to the regular course requirements, students will read independently one (1) novel each grading period.

**209 Academic English 9 Composition – 0.5 Credit**

Recommendation(s): 8th grade reading level.

*\*Must be scheduled with Course 210 Academic English 9 Literature*

The underlying features of the course are the development of self-discipline, following directions, and the formation of sound study habits. The course will review basic sentence parts and patterns, phrases, clauses, and four kinds of sentences according to structure. Spelling and vocabulary will be studied simultaneously with grammar and literature. A strict unit on outlining and the writing process will precede the different types of compositions and short research papers. Speeches will also be part of the course.

**210 Academic English 9 Literature – 0.5 Credit**

*\*Must be scheduled with Course 209 Academic English 9 Composition*

Certain aspects of literature will be introduced at this level: five elements of a short story, biographical approach, literary criticism, and literary terms. Course reading will range from short stories, poetry, an epic poem, a Shakespearean play, and novel(s). In addition to the regular course requirements, students will read independently two (2) novels each grading period.

**211 Academic English 10 Composition – 0.5 Credit**

Recommendation(s): 73% average in Academic English 9 Composition and Literature

*\*Must be scheduled with Course 212 Academic English 9 Literature*

This course will review grammar and usage with emphasis on the study of sentence variety, complements, verbals, and punctuation. Students will further develop the steps in the writing process through concentration on writing descriptive, expository paragraphs, a short research paper and essays. Emphasis will also be placed on the improvement of sentence unity and coherence. Speeches will be part of the curriculum.

**212 Academic English 10 Literature – 0.5 Credit**

Recommendation(s): 73% average in Academic English 9 Composition and Literature

*\*Must be scheduled with Course 211 Academic English 9 Composition*

The focus of the course will be the application of the writing process to literature selections which will include short stories, poetry, nonfiction, drama, a Shakespeare and novel(s). In addition to the regular course requirements, students will read independently three (3) novels each grading period.

**213 Academic English 11 Composition – 0.5 Credit**

Recommendation(s): 73% average in Academic English 10 Composition and Literature

*\*Must be scheduled with Course 214 Academic English 11 Literature*

Students will learn and utilize the process needed to compose a variety of multi-paragraph compositions. Sentence combining to achieve style and fluency in writing and to achieve unity and coherence will be emphasized. Speeches, a personal resume' and a research paper will be required.

**214 Academic English 11 Literature – 0.5 Credit**

Recommendation(s): 73% average in Academic English 10 Composition and Literature

*\*Must be scheduled with Course 213 Academic English 11 Composition*

American literature from Early Colonial Times to the Twentieth Century will be studied as well as the Shakespearean play Hamlet. The student will be expected to interpret and respond to literary selections both orally and in writing. In addition to the regular course requirements, students will read independently four (4) novels each grading period.

**215 Academic English 12 Composition - 0.5 Credit**

Recommendation(s): 73% average in Academic English 11 Composition and Literature

*\*Must be scheduled with Course 216 Academic English 12 Literature*

This course will provide the writing and literature background essential for the college bound student. Composition instruction will involve writing multi-paragraph essays with an emphasis on expository and persuasive writing. Students are expected to compose both persuasive and an informative research paper as well as a college admissions essay.

**216 Academic English 12 Literature – 0.5 Credit**

Recommendation(s): 73% average in Academic English 11 Composition and Literature

*\*Must be scheduled with Course 215 Academic English 12 Composition*

British literature from the Middle Ages to the Modern Period will be studied. Students will be expected to respond both orally and in writing to literary selections. In addition to the regular course requirements, students will read independently four (4) novels each grading period.

### **217 Honors English 11 – 1.0 Credit**

Recommendation(s): 85% average in Academic English 10 Composition and Literature, 95% final average for English 10 Composition and Literature and teacher recommendation.

This course is designed to provide the writing and literature background essential for the student who plans to attend college and who desires the challenge of a more intensified course in writing and literature. Composition instruction will involve multi-paragraph essays, literary criticism, and the research paper. American literature from the American Tradition to the Modern Period will be studied with emphasis on reading drama, novels, poetry, short stories, and a Shakespearean drama. Students will be expected to interpret and respond orally and in writing to literary selections. Speeches will also be required. In addition to the regular course requirements, students will read independently three (3) novels each grading period. **Students will be required to read a novel over the summer and write an essay in response to be ready for discussion on the first day of class.**

### **219 Advanced Placement English – 1.0 Credit (weighted)**

Recommendations: 85% final average in Honors English, 95% final average in Academic English 11 and teacher recommendation.

The AP English Literature and composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the way's writers use language to provide both meaning and pleasure for their readers. As they read students should consider a work's structure, style and themes, as well as such smaller scale elements as the use of figurative language, imagery, symbolism and tone. The course will include intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Students should read deliberately and thoroughly, taking time to understand a works complexity, to absorb its richness in meaning and to analyze how meaning is embodied in literary form. In addition to considering a work's literary artistry, student should consider the social and historical values it reflects and embodies. Careful attention to both textual details and historical context should provide a foundation for interpretation, whatever critical perspectives are brought to bear on the literary works studied. Writing will be an integral part of the course, the AP English examination is weighted towards student writing. Assignments will focus on the critical analysis of literature. Discussion of the AP Composition and Literature test will be studied. This is a college level course, in order to receive AP Credit, students must take the AP test. If they score well they may use these test scores for college credit, as applied by each institution. Required are 3 novels and ten written journal entries prior to the first day of class. **All students will be required to read several novels over summer break.**

### **226 TV Drama / Technology 1 - 0.5 Credit**

Recommendation(s): None,

This course is designed as an introduction in the use of hand held and studio cameras and equipment including the switcher, audio console, recorder and editing systems. Students will learn basic acting techniques, stage movements, voice and diction and control to act as talent in student production. Script writing and storyboard construction offer creative opportunities; students will write and produce their own projects in various television formats. Production crews and peer learning will promote teamwork and a responsible professional attitude.

### **227 Television / Drama / Technology 2 - 1.0 Credit**



Recommendation(s): Must have passed Television / Drama / Technology 1.

Recommendation(s): 83% average in Television/Drama/Technology 1

This class will build on all class objectives of the Television / Drama / Technology 1 class with emphasis on production. Each student will prepare scripts and storyboards for studio and field production projects. More advanced audio and editing procedures will be incorporated. All students will participate in taping and editing segments of a senior video as well as producing, directing and editing a final video project.

### **290 Basic/Speech** - Grades 11 and 12 - 0.5 Credit

The emphasis of the Basic Speech course is to familiarize the student with the oral communication skills that are needed for coping with and succeeding in today's complex society. The student will actively participate in a wide range of activities to give him/her the opportunity to develop and improve his skills to become a successful communicator. The focus of this course is on understanding the communication process and group communication as well as one to group-public speaking. The first part of this course consists of reading and learning about the foundations of speech, sending verbal and nonverbal messages, the methods of speech presentation, gathering information, and preparing a speech. The second part of the course consists of presenting various types of speeches. Students will present the following speeches: Introductory, Personal Experience, Demonstration, Informative, Persuasive, Special Occasion and Impromptu.

### **292 PSSA Reading (1<sup>st</sup> Semester)** - 0.5 credits.

PSSA Reading is designed to improve reading, writing and study skills. A continuation of previously learned skills are reinforced and expanded upon in an effort to improve reading performance. Higher order reading and language competencies are focused upon to prepare students for the Pennsylvania System of State Assessment. This class will be based on the 4-sight testing results.

### **293 PSSA Reading (2<sup>nd</sup> Semester)** – 0.5 Credit

PSSA Reading is designed for the student to continue to improve reading, writing, and study skills in an effort to improve his reading performance. Higher order reading and language competencies are focused upon to prepare students for the Pennsylvania System of State Assessment. This class will be based on the 4-sight testing results.

### **298 SAT Prep** - 0.5 Credit.

This class is for Juniors

The primary purpose of this course is to provide a background for the student in dealing with college entrance exams and preparing them with skills needed in college class. The student will be taught reading, writing, listening and research study skills along with practice of the skills acquired.

### **299 SAT Prep** – 0.5 Credit

This class is for Seniors

The primary purpose of this course is to provide a background for the student in dealing with college entrance exams and preparing them with skills needed in college class. The student will be taught reading, writing, listening and research study skills along with practice of the skills acquired.

### **311 French 1** - 1.0 Credit

Recommendation(s): 8th grade reading level.

The main emphasis is on the French language. Lessons will include interesting readings in French which introduce new words and new grammar structures, to give students practice in using the new vocabulary and grammatical concepts. There are discussion questions on reading comprehension of stories of French life, history, and mythology. The spoken language is a main part of this class.

### **312 French II - 1.0 Credit**

Recommendation(s): Recommend 73% average in French I

This course presents a review of first-year French grammar and syntax before presenting the essentials of second-year grammar. In depth use of everyday French is employed in the class at a more experienced level.

### **313 French III - 1.0 Credit**

Recommendation(s): 73% average in French 2, teacher recommendation.

French III uses the skills developed in the previous levels to enable the student to read and discuss classical literature written in French. Continued emphasis is placed on word development and sentence structure. Course requirements are similar to the first and second level.

### **314 French IV – 1.0 Credit (Weighted)**

Recommendation(s): 83% average in French III and teacher recommendation.

French IV will emphasize reading, oral communication, and spoken words. You will learn more complex ways to converse in French. New topics will be introduced each semester and will relate to the place of France in the world, French-American relations, and specifics of French culture. This course will focus on real world situations and will be a total immersion course focusing on conversation.

### **321 Spanish 1 - 1.0 Credit**

Recommendation(s): 8th grade reading level.

Spanish 1 introduces the student to common vocabulary, verbs and basic grammatical structures enabling them to converse and comprehend the language at an elementary level. The skills of reading and writing will also aid the student to meet their needs and interests. The above skills will also provide an introduction to the concepts of the cultural background, daily life, customs and traditions of Spanish speaking people particularly those of the Hispano-American countries. Each student will be expected to keep a notebook and pocket folder of class notes and daily written assignments. Class participation is required.

### **322 Spanish II - 1.0 Credit**

Recommendation(s): Recommendation(s): 73% average in Spanish I, Teacher recommendation.

Spanish 2 is a continuation of the development of the four skills of listening, speaking, reading and writing with further emphasis on conversation, grammar and translation on a more advanced level of comprehension. The cultural aspects of the course are broadened to give the student a thorough appreciation of the customs and traditions of Hispano-America primarily Mexico. Requirements are the same to those of the first level of the foreign language.

### **323 Spanish III - 1.0 Credit**

Recommendation(s): 83% average in Spanish 2.

Spanish 3 introduces the student to the study of Hispano-American culture, which includes the geography, history, life and customs, literature, art and music and also to the geography of Spain and important facts on cities of Spain. Spanish 3 also includes more advanced grammatical skills

with emphasis on oral expressions, composition and translations on an intermediate level. Recommend for college bound students. Students maintaining a 90% average in the first two of Spanish will be inducted into the Spanish Honor Society initiated in 1991. The Chapter title is "La Celestina." In order for students to receive Spanish Honor Chords at graduation, students must take Spanish IV and receive a final average of 90% in the course and be a member of the Spanish Honor Society.

**324 Spanish IV – 1.0 Credit (weighted)**

Recommendation(s): 90% average in Spanish III and teacher recommendation.

Spanish IV introduces the student to study of the future tense and subjective tense as well as other advanced grammatical concepts. Hispano-American Culture will be incorporated daily while practicing speaking skills necessary for intermediate conversations with classmates or native speakers.

**401 Adult and Family Roles – 0.5 Credit**

Recommendation(s): None. Preferential placement will be given to 11th and 12th grade students. This course is designed to recognize roles, skills, and processes essential to functioning as an adult. In this class, students will gain knowledge and acquire skills for living on their own. The responsibilities of families, parenting, child development, and financial management will be covered.

**402 Food Science Nutrition – 0.5 Credit**

Recommendation(s): None. Preferential placement will be given to 11th and 12th grade students. This course is designed to encourage students to develop an understanding of My Pyramid, the importance of food safety and sanitation, and proper measuring techniques. Students will gain hands on experience of food preparation, cutting skills, baking and cooking methods, and the use of small and large equipment.

**403 School to Careers – 0.5 Credit (Required Course)**

This class is designed to allow students to evaluate themselves as to their interests, skills and abilities. Students will research many different career areas and develop their personalized Career Portfolio for the world of work. Guest speakers of various professional occupations and the introduction of the cover letter, resume, job application, and the interviewing process are an integral part of the class.

**404 Fashion and Design Merchandising- 0.5 Credit**

Recommendation(s): None. Preferential placement will be given to 11th and 12th grade students. This course is designed to make students familiar with fashion design and business aspects of fashion merchandising. Students will create their own product line and work toward the development and marketing of a project for retail.

**\*413 Graphic Communications - 0.5 Credit**

Recommendation(s): None

Students will apply a variety of advanced mechanical and electronic drafting methods to communicate a solution to a specific problem and apply advanced communication techniques to produce an image that effectively conveys a message. Apply knowledge of information technologies of encoding, transmitting, receiving, storing, retrieving and decoding. Students will build a scaled model of a residential dwelling to reinforce drafting knowledge. Students will also design and laser engrave a board game to reinforce desktop publishing skills.

**\*414 Architectural Drafting -1.0 Credit**

Requirement: Must successfully complete Graphic Communications.

Students will apply a variety of advanced mechanical and electronic drafting methods to design a residential dwelling, following the Residential Construction Code. The students will use Autodesk to make a complete set of construction plans.

**\*415 Pre-Engineering 1 – 0.5 Credit**

Requirement: Must successfully complete Graphic Communications.

Students will apply a variety of electronic drafting methods to design a model using AutoCAD and demonstrate knowledge of various construction systems by building or interpreting models. Students will design and construct a balsa wood truss bridge and test the compression strength. Students will also learn to program and manipulate Vex robots to complete tasks.

**\*416 Pre-Engineering 2 – 0.5 Credit**

Requirement: Successfully complete Graphic Communication & Pre-Engineering 1

Incorporates advance features of computer drafting, then applying necessary techniques to create a computer-aided graphic along with a finished machined product. Students will gain a working knowledge of this phase of computer technology, and acquire a degree of skill that will be valuable in the pursuit of a vocation in CADD, numerical control or a related profession. Students will design and build models of current area projects i.e. new elementary building. Students will also program Vex Robots to complete tasks with sensors.

**\*420 Digital Photography – 1.0 Credit**

Recommendation(s): Student must be willing to participate in yearbook publication.

Utilize digital cameras to capture high school memories for the yearbook. Students will learn multiple camera settings and photo editing programs, and how to import pictures into many project layouts.

**421 Manufacturing Technology – 0.5 Credit**

This class is an activity based course designed to familiarize the students with basic shop hand tools, machines, and manufacturing processes.

**422 Manufacturing Technology 2 – 0.5 Credit**

Requirement: Successfully completed Manufacturing Technology 1.

This class is an advanced technology course where the students design and construct projects as their individual abilities, in conjunction with learning the basic fundamentals of the CNC Techno Router 2D program.

**423 Manufacturing Technology 3 – 0.5 Credit**

Requirement: Successfully completed Manufacturing Technology 2 and student must be approved by instructor.

This class is a course based on manufacturing procedures accomplished on the CNC Techno Router with an emphasis on the 3D program.

**442 Art 1 - 0.5 Credit**

Recommendation(s): None.

The student will be exposed to various areas of the art field. The student will be able to use many tools to create drawings, paintings, graphics, designs and studies. These projects will be created in class and the student will be responsible for each completed work. These will then be submitted to the instructor for evaluation. Each student will be able to accept criticism for each work submitted, and volunteer suggestions that may be necessary to improve their ideas. Each student will be required to complete all projects for grade purpose.

**443 Art 2 - 1.0 Credit**

Requirement: Must get 80% in Art 1.

The students will be able to produce art work that is specific in requirements. Each student will be able to create projects that are more refined and advanced in subjective fields. These projects should reflect the artist's ideals and originality. The student will be able to create selective ideas that may require additional time out of school. Each student may be given assigned projects that request quality time and effort. The student will be able to experience various areas of hands-on projects involving craft ideals and three dimensional work.

**444 Art 3 - 1.0 Credit**

Requirement(s): Art 1, Art 2; 90% average in Art 2.

The student will be able to work independently on projects, suggested by the instructor. Each student will be able to begin work and finish, with the knowledge that their best effort is to definitely be challenged. Each student will be able to identify work of artists and their style; sometimes incorporating these in their work. These works of art must be personally submitted for evaluation and criticism. The student will be able to think and select mature ideals for each projected work and accept the challenge for larger, more detailed art work.

**451 Band 1 – .5 Credit – Fall Semester**

Recommendation(s): Must be a current playing member of the marching and concert bands. Band members will rehearse music for football season, parades and Christmas concert. Covers music theory, harmony and rhythm.

**452 Band 2 - 0.5 Credit – Spring Semester**

Recommendation(s): Must be a current playing member of the marching and concert bands. Band members will rehearse music for spring concert and parades. Covers music theory, harmony and rhythm.

**460 Concert Choir – 0.5 Credit                      Fall Semester**

Recommendations: Student must have a willingness to learn the art of singing and performing all genres of music. Experience in singing or choir is helpful but not required.

Concert choir is a beginning to intermediate course for students who are passionate about singing and performing in a chorus. Students will be required to learn vocal techniques and study many musical styles. Historical and cultural aspects of the choral music will also be studied and performed including music in foreign languages. Students will begin studying beginning to intermediate music theory and sight singing. The student is required to perform in at least two concerts throughout the academic year. Several after school rehearsals are required for the course.

**461 – Concert Choir Spring – 0.5 Credit                      Spring Semester**

Recommendations: Student must have a willingness to learn the art of singing and performing all genres of music. Experience in singing or choir is helpful but not required.

Concert choir is a beginning to intermediate course for students who are passionate about singing and performing in a chorus. Students will be required to learn vocal techniques and study many musical styles. Historical and cultural aspects of the choral music will also be studied and performed including music in foreign languages. Students will begin studying beginning to intermediate music theory and sight singing. The student is required to perform in at least two concerts throughout the academic year. Several after school rehearsals are required for the course.

**462 – Concert Choir - 1.0 Credit      All Year**

Recommendations: None

Student must have a willingness to learn the art of singing and performing all genres of music. Experience in singing or choir is helpful but not required.

Concert choir is a beginning to intermediate course for students who are passionate about singing and performing in a chorus. Students will be required to learn vocal techniques and study many musical styles. Historical and cultural aspects of the choral music will also be studied and performed including music in foreign languages. Students will begin studying beginning to intermediate music theory and sight singing. The student is required to perform in at least two concerts throughout the academic year. Several after school rehearsals are required for the course.

**465 – Chamber Choir - 0.5 Credit**

Requirement: By Audition Only in grades 10, 11, and 12

Students must audition and pass a music proficiency test; pitch memory and tone quality evaluation. Limited to 10, 11, and 12 and availability of vocal selections to be considered. This is an accelerated and advanced vocal course. Students will gain experience singing alone and with a group. Student will study advanced music theory and sight singing. The student will participate in several evening concerts and public performances during the year. Several after school rehearsals will be required.

**470 Guitar I - 0.5 Credit**

Recommendations: None

Guitar will be a nine week class to learn basic guitar playing skills and the general musical knowledge needed to play a varied repertoire of guitar literature with expression and accuracy. The student will read and write musical notation, perform with expression and name the parts of the guitar and their functions.

**473 Guitar II – 0.5 Credit**

Recommendation: Must have passed Guitar I

This course is a continuation of Guitar I. The class continues where Guitar I ends. It will cover more advanced 8<sup>th</sup> note rhythms with the addition of sharps and flats. Any student wishing to take this course must have taken Guitar I first.

**471 – Piano - 0.5 Credit**

Recommendations: None

Students of all musicianship levels may take this class. This class is open to beginners who have the passion to study piano or students who have prior playing experience. Students will study keyboard techniques, music theory, improvisation, and sight-reading. This class may be repeated each school year at a more advanced level.

**472 – Music Appreciation - 0.5 Credit – Fall Semester Only**

Recommendations: None

The students will study many styles of music. They will examine the elements and history of music and compare and contrast the development of music from different composers and cultures. Students will perform in numerous hands on activities including learning basic skills of musical instruments, reading musical notation, and learning the beginnings of music theory.

**474 – Music Theory and Composition - 0.5 Credit**

Recommendations: Must be in Grades 10 – 12 and have been enrolled in piano, guitar, or Intro to Musical Concepts.

Students will work on individually assigned projects studying music theory and composition. Computer software will be used in the classroom. Students will write and play compositions on instruments of choice.

#### **475 Current Trends in Music – 0.5 Credit**

Recommendations: None

Covers the development of music, musicians, and music technology from the beginning of the 20th century to today.

#### **476 –Musical Theatre - 0.5 Credit – Spring Semester Only**

Recommendations: Experience or participation in singing, acting are helpful, but not required. Students will study all types of music theatre including musicals, operettas, operas, ballet, and early theatrical plays. Aspects of stage production will also be studied. The students will have the opportunity to choreograph dances, sing, and act out scenes from different productions. Students are required to participate in spring musical as a cast or crew member. Some after school or evening attendance will be required.

#### **477 Instrumental Music – 0.5 Credit**

Recommendations: None

Current playing members of the marching and concert bands and any other student interested in joining the marching band or concert band. This course is designed for students who already play musical instruments in the band. It will cover music theory, musical styles and technique exercises for any instrumentalist.

#### **490 Drivers Ed - 0.5 Credit**

Recommendation(s): A lab fee is charged to cover car expenses - summer driving. All students must have their driver's license or learner's permit by May of that School year.

This course is designed to provide students with the fundamentals and correct skills necessary for the proper manipulation of an automobile under various conditions and situations. Their summer driving experience will place them in most normal driving situations they will face on a daily basis. Through class exercises students will learn how to safely and efficiently operate an automobile.

#### **512 Algebra A – 1.0 Credit**

This course will cover the following topics for Module 1 of the Algebra 1 Keystone Exam:

- Orders and simplifies real numbers written as expressions.
- Uses multiple representations of real numbers.
- Uses properties of exponents to simplify terms.
- Uses estimations in problem-solving situations.
- Performs operations on and simplifies polynomial expressions (up to binomials multiplied by binomials).
- Factors polynomial expressions
- Solves and graphs multistep linear equations and in equalities in problem-solving situations.
- Solves systems of equations
- Interprets graphical representations of systems of two linear inequations.
- Interprets solutions to problem-solving situations.

The Algebra I Keystone Exam consists of exam questions arranged into **TWO MODULES**: Operations and Linear Equations & Inequalities will be covered in Algebra A and Linear Functions and Data Organizations that will be covered in Algebra B. Each module corresponds to specific content aligned to statements and specifications included in the course-specific assessment anchor documents. Students must be proficient in Algebra I to graduate.

**514 Algebra 2 - 1.0 Credit**

Recommendation(s): Passed Algebra I. At least a 73% average in Algebra I

This course is a continuation of the UCSMP series. Topics covered will include: graphing lines, distance, square roots, Pythagorean Theorem, slope, equations of lines, exponents, applications of exponential equations, parabolas and quadratic equations, and functions.

**516 Geometry - 1.0 Credit**

Recommendation(s): Must have passed Algebra II with a 73% average

This course is a continuation of the UCSMP series. This course introduces and/or expands upon the topics of points, lines, parallel lines, types of polygons and their properties, congruence, similarity, Pythagorean theorem, special right triangles, circles and their properties, angles and lines, perpendicular lines, reflections, transformations and measurement formulas.

**520 Advanced Algebra**

Recommendation(s): 83% average in Geometry.

Topics covered are: the language of algebra, graphing, linear relations, systems, parabolas, quadratics, powers, roots, and exponents. Throughout the course problem solving strategies will be applied.

**525 Integrated Math I – 1.0 Credit**

**Recommendation(s): 83% average in Geometry**

This is the first course of three in the Integrated Math curriculum. Integrated Math is an alternative to the traditional Algebra 1/Algebra 2/Geometry series. The difference is that all of the mathematics topics (Algebra-Geometry-Probability) are presented together each year rather than taught as separate courses. Topics to be covered include: Integers, estimating, equations, angle relationships, graphs, statistics, translations, formulas and problem solving.

**526 Integrated Math II – 1.0 Credit**

Integrated Mathematics helps students develop their abilities to: Explore and solve mathematics problems. Think critically Work cooperatively with others Communicates ideas clearly Integrated Math is divided into separate courses, Algebra I, Algebra 2 and Geometry. In addition, topics from logical reasoning, measurement, probability, statistics, discrete mathematics, and functions are interwoven throughout the course. Specific topics covered in Mathematics 2 are: Quadratic Equations, Linear Systems, Rational Equations, Geometric Proofs, Coordinate Geometry, Special Right Triangles, Binomial Distributions, Inductive and Deductive Reasoning, and Matrix Operations.

**527 Integrated Mathematics 3 – 1 credit**

Requirement: Must have passed Integrated 1 and 2

A continuation of the Integrated Math series, this course integrates the concepts of Algebra, Geometry, Trigonometry and Statistics into one course.

**528 Integrated Mathematics IV – 1 cr.**

**Requirement:** Passes Integrated Math III



This is the final course in the Integrated Math series and will continue to build on the skills from the previous Integrated Math courses. This course will cover the following topics: Problem Solving, Set Theory, Logic, Number Theory, Functions, Graphs, Financial Management, Geometry, Probability and Statistics.

**530 College Algebra – 1 cr.**

**Requirement:** 83% average in Integrated Math III or equivalent.

Topics will include operations on Fundamental operations integers and polynomials, linear equations; factoring and fractions, exponents and radicals; functions and graphs; equations and inequalities; systems of equations.

**556 Functions, Statistics and Trigonometry - 1.0 Credit**

Recommendation(s): 83% average in Advanced Algebra.

This course is a continuation of the UCSMP series. Students will study various functions and their graphs. This will include composite, inverse, exponential and logarithmic functions. Trigonometric and circular functions will also be studied. Trigonometric applications will require radian and degree measurements. Graphing calculators will enhance the study of various graph translations and scale changes of functions. Also are studied are statistics, probability, sequences, series and combinations.

**561 Calculus - 1.0 Credit (Weighted)**

Recommendation(s): 85% in Trigonometry, Teacher Recommendation

This course is the standard first course in a basic calculus sequence required for all mathematics, science, engineering and statistics students at most colleges and universities. Topics covered include: functions and graphs, limits, derivatives, trigonometric functions, applications of the derivatives, integrals, applications of the integrals and exponential and logarithmic functions.

**562 PSSA Math – (2<sup>nd</sup> semester) - .5 Credit**

Students will be scheduled during the second semester to give extra help for the PSSA test. This class will be based on the 4-sight testing results.

**563 PSSA Math – (1<sup>st</sup> semester) - .5 Credit**

Students will be scheduled during the first semester to give extra help for the PSSA test. This class will be based on the 4-sight testing results.

**601 Health Education - 0.5 Credit**

Recommendation(s): All Junior students should schedule Health Ed.

In order for students to make intelligent health decisions, important concepts must be understood. The students will gain a sound concept of mental and physical health and well being. Current health problems such as drug, tobacco, and alcohol abuse are investigated. The reproductive cycle and human sexuality are explored, including AIDS education. In addition, understanding chronic illness and environmental topics are included in this course.

**603 Physical Education - 0.5 Credit**

Recommendation: **All Freshmen will take this class.**

Students are required to participate five days per week for nine weeks in a co-educational setting. The program is structured to include general fitness, team and individual sports. Emphasis is placed on lifetime activities.

**604 Life Time Sports Training - 0.5 Credit**

Recommendation: This class will be offered to all Sophomore, Junior and Seniors. This class will consist of lifetime sports classes such as tennis, rock climbing, bowling etc.

**605 Cardio Training - .05 Credit**

Recommendation: This class will be offered to all Sophomore, Junior and Seniors. This class will consist of cardio classes such as tae boe, aerobics and dance revolutions

**606 Weight Training - .05 Credit**

Recommendation: This class will be offered to all Sophomore, Junior and Seniors.

This class will include weight training, plyometrics, flexibility exercises, gymnastics and aerobic and anaerobic conditioning. Full participation is a course requirement. Evaluation will be based on knowledge and physical performance. This class is designed for those students wishing to gain knowledge and experience in life long physical conditioning and fitness. Use of weight room and exercise machines will be part of the curriculum.

**701 Academic Biology/ Lab - 1.5 Credit**

Recommendation(s): At least 85% final average in 8th grade Science and a teacher recommendation.

Academic Biology will introduce the student to the study of life. This course will expose students to characteristics of life on the molecular and cellular levels. It will include a study of the continuity of life along with an introduction of genetics, evolution, and classification of living things. This course includes laboratory exercises (microscopy, dissection, and experimentation) to correlate the content in all areas of study. This course is designed for college bound students who are disciplined in time and effort toward their studies.

**703 Applied Chemistry - 1.0 Credit**

Applied Chemistry is a science course that studies concepts about the structure and properties of matter. The course deals with how chemistry is related to our community. The course is designed to help students recognize and understand the importance of chemistry to their lives. Students will develop problem-solving techniques and critical thinking skills to apply chemical principles in order to make decisions about scientific and technological issues. Students will also acquire an awareness of the potential as well as limitations of science and technology.

**704 Life Science - 1.0 Credit**

A course comprised of content and processes from biology (Life Science). This course is designed to provide instruction in science for non-college bound students. The course includes laboratory type experiences, but without the depth of content contained in Academic Biology.

**705 Honors Chemistry – 2.0 Credits (weighted)**

Recommendation (s): At least 83% final average in both Algebra II and Academic Biology. Also, a teacher recommendation is required. Emphasis is placed on the development of high level thinking skills, problem solving abilities and study skills. An important part of the course is the completion of an independent research project and various special projects. The intent of the course is to provide the student with a chemistry background that is, relatively, equivalent to a first semester chemistry course in college.

**707 Academic Chemistry/ Lab - 1.5 Credit**

Recommendation(s): At least 75% final average in Algebra 1 and teacher recommendation.

The major goal of this course is to clearly develop basic chemical principles and concept in a logical sequence. The course does not stress memorization. Memorization of terms and principles is used only when it is essential to the proper communication of ideas. Primary emphasis is

placed upon the proper observation, recording and understanding of chemical systems. By analyzing the essential processes involved in chemical systems, the students will be taught to interpret their own work and be able to apply their analyzing abilities in new situations. The importance of individual effort, focused observation and the necessity for effective communication skills are continuing themes of the course.

#### **708 Global Science – 0.5 Credit**

##### **Required for all Juniors**

This course examines the impact of human activity on the environment, energy and natural resources, air, water, and land quality. Students will develop a deeper understanding of how human activities influence the environment and energy and natural resources. The goal of this course is to meet certain PA State Environment and Ecology Standards.

#### **709 Science 11 – 0.5 Credit**

##### **Required for all Juniors**

This course covers earth's place in the universe and how our chemistry and physics parallel what we have discovered about other planets and suns. Students in this course will gain an understanding of the sun and other stars, planets, comets, asteroids, and galaxies in the universe. Emphasis is placed on discovering how happenings in the universe affect everyday life.

#### **711 Physics – 2.0 Credits (weighted)**

Recommendation(s): Have passed Geometry with at least 88% or higher and be taking or have passed Trigonometry. Physics is the study of matter and energy. It is the basis of all engineering, technical education and the foundation for much that the skilled craftsman must know. In response to a definite trend in industry for the need for technically skilled individuals, this course is designed to give the students a solid background in the physical laws and concepts governing the world around us.

#### **712 Physical Concepts - 1.0 Credit**

##### **Juniors and Seniors**

The Physical Concepts course is designed to help the students develop and understanding of the world around them through sound content and the practice of skills that will help them reach that understanding. Emphasis is placed on physical laws and concepts. Minimum math skills are necessary. All additional mathematical procedures needed will be taught as part of this class.

#### **715 Science 12 – 0.5 Credit**

##### **Seniors Only**

This class will include a study of the systems of the body and how they relate to a healthy lifestyle. Topics will cover the digestive system, circulatory system, respiratory system and nutrition. This course is designed to provide instruction in science for non-college bound students.

#### **795 Anatomy I - 0.5 Credit**

Prerequisite: 83% final average in Academic Biology - Limited to 11th, and 12th grade students.

This course will include the study of vertebrates by examine structures and functions of human organ systems. It will include an introduction of the human body plan and describe the major tissues of the body. The systems that will be studied are: Skeletal, Muscular, Integumentary, Circulatory, Respiratory, Immune, Investigations and dissections will also be included in the

course work. This is a course that is geared to students who will further their education in the medical field.

**796 Anatomy II - 0.5 Credit**

Requirement(s): Completion of Anatomy I - Limited to 11th, and 12th grade students.

This course will include a continuation of the study of the human body systems. The systems that will be studied will be the Digestive, Urinary, Nervous, Endocrine, Reproductive and the Sense Organs. It will include a detailed dissection and investigation of a representative of the Vertebrate group. Lab practicums will be included as part of the evaluations. This is a course that is geared for students who will further their education in the medical field.

**810 United States History-AP (weighted)**

(Advanced Placement) - 1.0 Credit

Recommendation(s): 93% in Social Studies / History (9-10-11) Recommended for Juniors Only.

This is an introductory level college course of United States History. The time period involved will be from the first European explorations of the America's to the present. Course content, requirements and student performance are exceptionally high. Students will be expected to perform the level of work required in an introductory college course in United States History. Heavy emphasis on individual research and independent study is also required of all students. This is a college level course, in order to receive AP Credit, students must take the AP test. Students are reminded that extensive out of class preparation for the exam is necessary and that successful completion of the course does not guarantee a passing score on the test. This is an extremely challenging course. **American Government** is required in addition to AP History.

**890 Current Issues - .5 Credits**

The Intent of this course is to provide the student with the basic background information to help them understand the world that we live in today. The student will become familiar with local, national and international issues of the day. The course will examine various social, political, economic, religious and cultural events in different countries in order to better comprehend multiple perspectives on the world today. The student will be required to do internet research, read newspapers, magazines and watch various news shows to inform them of the current issues of society.

**891 Local History - .5 Credit**

Recommendation(s): 73% or higher final average in previous year's Social Studies courses.

Grade 10 through 12

The student will; learn about the history of Fayette County in general and the region around Brownsville in particular, including, among other topics, a study of local French and Indian War sites (Jumonville, Fort Necessity, Braddock's Road); an examination of Fort Burd and its fate; the founding of Bridgeport and Brownsville; the study of Nemaquin Castle in Brownsville; the history of the National Road and the remaining historical structures along its route; the local steamboat industry; impact of the coal and coke industry in the area and the bridges and ferries that crossed the Monongahela at Brownsville.

**892 PA History - 0.5 Credit**

Recommendation(s): None. Grade 9

This course is designed to give students a greater understanding of the Pennsylvania History from 1787 to 1914. The students will examine how Pennsylvania's geography and natural resources led

to its industrial growth. A basic understanding of political and cultural contributions, primary documents and historic sites, belief systems and religion, and conflict and cooperation among groups between 1787 and 1914 will be emphasized.

**893 Civics - 0.5 Credit**

Recommendation(s): None. Grade 9

Civics is an introductory course in American government. A basic understanding of the levels and branches of American government will be stressed. The application of this knowledge will develop good attitudes in relation to contemporary trends in American government. The major emphasis of this course is to expose the students to the rights and responsibilities of American citizens.

**894 World History 1 - .5 Credit** Grade 10

This course is designed to expose the students to the development of man from the Medieval Period through the Age of Revolutions. Emphasis will be placed on subjects such as: The Rise of Medieval Europe, the Renaissance and Reformation, the Age of Discovery, the Rise of Absolutism in Europe and the Scientific Revolution.

**895 World History 2 - .5 Credit** Grade 10

This course is a study of the major events affecting world history during the 20th century. Emphasis will be placed upon the Causes and Effects of World War I, the Rise of Fascism in the World and finally the Causes and Effects of World War II.

**896 U.S. History - 0.5 Credit**

Recommendation(s): None. Grade 11

This course is designed to expose the student to the major events and people that shaped the United States from the Reconstruction Era (1880s) to the Beginning of the Cold War (1950s). Emphasis will be placed on such subjects as: The Reconstruction period after the Civil War, Progressivism, the Roaring Twenties, the Great Depression, the New Deal and the Home Front during W.W.II.

**897 American Government 0.5 credit**

Recommendation(s): None Grade 11

This course is designed to allow students to explore the structure of Local, State and Federal government. **This is a required course in addition to AP History.**

**898 Contemporary United States History: 1945 to Present - 0.5 Credit**

Recommendation(s): None Grade 12

This course covers the evolution of American political, economic and social institutions since World War II. Emphasis is placed on such subjects as: the Cold War, the Korean War, Social Reform and Protest, the Vietnam War and the Nixon to Bush era.

**899 Economics - 0.5 Credit**

Recommendation(s): None. Grade 12

This course is designed to introduce students to concepts such as problems of scarcity, basic types of economic systems, market economy, and supply and demand. Students will learn how consumers and government influence the market place. They will also learn about free trade and how trade affects our daily lives.

**991 Vo-Tech** – This is a year long class. Students will remain at the high school for the first part of the day then travel to the Vo-Tech for the remainder of their classes. If students sign up for Vo-Tech, they must remain at the Vo-/tech for 1 year. All changes must be made prior to the first day of school.

**Brownsville Area High School  
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