This handbook includes general information and course descriptions that outline the curriculum offerings at Brentwood High School. Use it as a guide, along with the help and advice of your counselors, teachers, and family, to plan an appropriate program of studies for the coming year.

**Graduation Requirements**

Students must compile a minimum of twenty-five (25) credits in order to graduate from high school. These credits are to be acquired in grades 9 through 12.

Courses required by the Brentwood Borough School District are as follows:

- four (4) credits in English
- four (4) credits in mathematics AND (3) credits in science

  OR

- four (4) credits in science AND (3) credits in mathematics

- four (4) credits in social studies
- two (2) credits in arts and humanities

- one (1) credit in health and physical education
  (Physical education must be taken each year)

- six (6) electives
- one (1) credit Graduation Project

Credits earned in the ninth grade are counted toward graduation from high school. However, some eighth grade subjects may be offered to satisfy entrance requirements to certain colleges and universities.
**Honors Program**

Brentwood High School provides Advanced Placement (AP) courses in Calculus, Computer Science, English, European History, German, Physics, Spanish, Statistics and United States History and honors level courses in Art, Band, English, Foreign Language, Mathematics, Science, Technology Education and United States History. In contrast to the regular high school courses, these programs offer extended content and additional workload.

The National Math and Science Initiative (NMSI) is a national nonprofit organization that supports districts in developing college readiness through improving teacher effectiveness and student performance in critical subjects of science, technology, engineering and math. As part of a partnership with NMSI through the 2019-2020 School Year, students enrolled in math, science, technology, and English AP courses will receive further support with extra tutoring sessions, administration/scoring of mock AP Exams and three focused supplemental Saturday Study Sessions which will be held throughout the year with students from other districts in the region. NMSI will also subsidize the fee of the AP Exam and provide monetary incentives for students that earn qualifying scores on the AP Exam. For more information about the NMSI organization, you can visit their website: http://www.nms.org/.

**Summer School**

Students who do not pass one or more required courses are encouraged to attend summer school to make up the lost credit(s). Information regarding accredited summer schools in our area may be obtained in the Guidance Office in late April or May.

**Summer School Grades**

Grades for repeated courses are placed on the transcript AND are used in the G.P.A. as well as the earned grade for the original course. They do not replace the original grade already on the transcript. For athletic eligibility purposes, the actual summer school grade will be placed in the fourth nine weeks and averaged accordingly.

**Study Halls**

Students in Grades 10-12 are not permitted to schedule more than 10 study halls a week. Freshmen may schedule a semester study hall, which will meet 5 days a week.

**Grading Scale**

<table>
<thead>
<tr>
<th></th>
<th>Grading Scale</th>
<th>Honors Level Quality Points</th>
<th>AP Level Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (4 quality points) =</td>
<td>90-100</td>
<td>4.5</td>
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<tr>
<td>B (3 quality points) =</td>
<td>80-89</td>
<td>3.5</td>
<td>4.0</td>
</tr>
<tr>
<td>C (2 quality points) =</td>
<td>70-79</td>
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<td>3.0</td>
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<tr>
<td>D (1 quality point) =</td>
<td>60-69</td>
<td>1.5</td>
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<tr>
<td>E (0 quality points) =</td>
<td>0-60</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
**Graduation Project**

All students must complete a Graduation Project. The Graduation Project is worth one (1) credit and will be assessed as pass or fail. The graduation project WILL NOT HAVE AN IMPACT ON THE CUMULATIVE GRADE POINT AVERAGE.

**Keystone Assessments**

Students must score at either the advanced or proficient level on the Keystone Algebra I, Biology, and Literature assessments. If a student does not score at either the advanced or proficient level by the conclusion of eleventh grade, an advanced or proficient score must be obtained on the twelfth grade project-based assessment in order to graduate.

**Dropping a Class**

Students have 20 school days at the beginning of the school year for first semester and yearlong classes, as well as the first 20 school days for 2nd semester classes to make an appropriate decision about dropping a class without penalty. If a student drops a class after the 20 day established deadline, but before the end of the respective 9 week grading period, a “Withdraw Pass” or a “Withdraw Fail” will be noted on the permanent grade record. Classes dropped after the end of the first grading period for 1st semester or yearlong courses (or third grading period for 2nd semester classes) will be noted as “Withdraw Fail” and will count as a credit attempted, therefore affecting the student’s grade point average.

**Academic Eligibility**

Please refer to the ELIGIBILITY and CURRICULUM AND ACADEMIC ELIGIBILITY sections of the Athletic Handbook.
# GRADE 9

### REQUIRED COURSES
- English – 1 credit
- American Government and PA History – 1 credit
- Mathematics – 1 credit
- Science – 1 credit
- Physical Education – ½ credit
- Electives – 2 ½ credits

### COURSES

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit</th>
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<tbody>
<tr>
<td><strong>English/Communications</strong></td>
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<tr>
<td>English 9</td>
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<tr>
<td>English 9 Honors</td>
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</tr>
<tr>
<td>Yearbook/Newspaper **</td>
<td>1</td>
</tr>
<tr>
<td><strong>Family &amp; Consumer Science</strong></td>
<td></td>
</tr>
<tr>
<td>Teen Living 9</td>
<td>½</td>
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<tr>
<td><strong>Fine Arts</strong></td>
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<tr>
<td>Art 9</td>
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<td>Band</td>
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<td>Jazz Band</td>
<td>1</td>
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<tr>
<td>Chorus</td>
<td>1</td>
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<tr>
<td><strong>Foreign Language</strong></td>
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<td>German</td>
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<td>Spanish</td>
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<td><strong>Mathematics</strong></td>
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<tr>
<td>Algebra I Part 2</td>
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<td>Biology I Honors</td>
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<tr>
<td><strong>Technology Education</strong></td>
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<tr>
<td>IML 9</td>
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<td>TED 9</td>
<td>½</td>
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<tr>
<td><strong>Physical Education</strong></td>
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<tr>
<td>Fitness/Nutrition/Weight Lifting</td>
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<tr>
<td>Competitive Sports</td>
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</table>

*This course does not satisfy the English requirement.

**This course does not satisfy the math requirement.

A one (1) credit Graduation Project must be completed prior to graduation.
GRADE 10

**REQUIRED COURSES**

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<td>Electives</td>
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**COURSES**

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<td>Video Production II **</td>
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<td>Graphic Design II **</td>
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<tr>
<td></td>
<td>Photography and Design **</td>
</tr>
<tr>
<td></td>
<td>Yearbook/Newspaper **</td>
</tr>
<tr>
<td><strong>Family &amp; Consumer Sciences</strong></td>
<td>Foods &amp; Nutrition I</td>
</tr>
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<td></td>
<td>Foods &amp; Nutrition II</td>
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<tr>
<td><strong>Fine Arts</strong></td>
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</tr>
<tr>
<td></td>
<td>Introduction to Painting</td>
</tr>
<tr>
<td></td>
<td>Band</td>
</tr>
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<td></td>
<td>Jazz Band</td>
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<td>Chorus</td>
</tr>
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<td><strong>Foreign Languages</strong></td>
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<td>Spanish</td>
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<td></td>
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<td>Geometry Honors</td>
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<td></td>
<td>AP Computer Science Principles**</td>
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<td><strong>Science</strong></td>
<td>Biology I</td>
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<td>Biology I Honors</td>
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**These courses do not satisfy the English requirement.**

**This course does not satisfy the math requirement.**

**This course does not satisfy the science requirement.**
<table>
<thead>
<tr>
<th>Social Studies</th>
<th>World History</th>
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**This course does not satisfy the Social Studies requirement.

<table>
<thead>
<tr>
<th>Technology Education</th>
<th>Manufacturing, Design and Prototyping</th>
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<tbody>
<tr>
<td></td>
<td>Production, Materials and Manufacturing</td>
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<tr>
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<td>Introduction to Woodworking</td>
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</tr>
<tr>
<td></td>
<td>Product Fabrication and Design</td>
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<td>Battle Bots for Competition</td>
<td>1</td>
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<td>Toys for Tots Manufacturing</td>
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<td></td>
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Steel Center Vocational Technical School 3

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<thead>
<tr>
<th>Health/Physical Education</th>
<th>Health and Wellness</th>
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A one (1) credit Graduation Project must be completed prior to graduation.
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<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
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<td>Mathematics</td>
<td>1</td>
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<td>Science</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Electives</td>
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## COURSES

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<th>Business Education</th>
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<tr>
<td>AP English Language and Composition</td>
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<tr>
<td>Video Production I **</td>
<td>½</td>
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<td>Video Production II **</td>
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<tr>
<td>Graphic Design I **</td>
<td>½</td>
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<tr>
<td>Graphic Design II **</td>
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</tr>
<tr>
<td>Photography and Design **</td>
<td>½</td>
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<tr>
<td>Yearbook/Newspaper **</td>
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*These courses do not satisfy the English requirement.

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<thead>
<tr>
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<table>
<thead>
<tr>
<th>Fine Arts</th>
<th>Credit</th>
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<tbody>
<tr>
<td>General Art</td>
<td>½</td>
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<tr>
<td>Introduction to Painting</td>
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<tr>
<td>Illustration and 2D Mediums</td>
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<tr>
<td>3D Mediums</td>
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<tr>
<td>Band</td>
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<td>Band Honors</td>
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<td>Jazz Band</td>
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<th>Mathematics</th>
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<td>AP Statistics</td>
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<td>AP Computer Science Principles **</td>
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*This course does not satisfy the math requirement.
<table>
<thead>
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<tbody>
<tr>
<td>Chemical Concepts</td>
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<td>Chemistry I</td>
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<td>Chemistry I Honors</td>
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**This course does not satisfy the science requirement.**

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<th><strong>Social Studies</strong></th>
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<td>Contemporary Issues**</td>
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**This course does not satisfy the social studies requirement.**

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<thead>
<tr>
<th><strong>Technology Education</strong></th>
<th>Manufacturing, Design and Prototyping</th>
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<tbody>
<tr>
<td>Production, Materials and Manufacturing</td>
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<tr>
<td>Introduction to Woodworking</td>
<td>½</td>
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<tr>
<td>Product Fabrication and Design</td>
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<tr>
<td>Battle Bots for Competition</td>
<td>1</td>
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</tr>
<tr>
<td>Toys for Tots Manufacturing</td>
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<tr>
<td>TED Mechanical</td>
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| Steel Center Vocational Technical School | 3 |   |

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<tr>
<th><strong>Health/Physical Education</strong></th>
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<tbody>
<tr>
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A one (1) credit Graduation Project must be completed prior to graduation.
# GRADE 12

## REQUIRED COURSES
- **English** – 1 credit
- **Social Studies** – 1 credit
- **Mathematics** – 1 credit
- **Science** – 1 credit
- **Physical Education** – ½ credit
- **Electives** – 2 ½ credits

## ELECTIVE COURSES

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<thead>
<tr>
<th>Business Education</th>
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<th>CREDIT</th>
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<td>English 12</td>
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<td>AP English Literature and Composition</td>
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<td>Video Production I **</td>
<td>½</td>
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<td>Video Production II **</td>
<td>½</td>
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<tr>
<td>Graphic Design I **</td>
<td>½</td>
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<tr>
<td>Graphic Design II **</td>
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<td>Photography and Design **</td>
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**These courses do not satisfy the English requirement.**

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<tr>
<td>Foods &amp; Nutrition I</td>
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<td>Foods &amp; Nutrition II</td>
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<table>
<thead>
<tr>
<th>Fine Arts</th>
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<td>General Art</td>
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<td>Introduction to Painting</td>
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<tr>
<td>Illustration and 2D Mediums</td>
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### Trigonometry and Precalculus Honors 1
### AP Calculus AB 1
### AP Calculus BC 1
### AP Statistics 1
### AP Computer Science Principles** 1

**Science**
- Biology II 1
- Chemistry II Honors 1
- Physical Science 1
- Physics 1
- AP Physics 1 1
- AP Physics C: Mechanics 1

**Social Studies**
- AP European History 1
- American Law ½
- Economics ½
- Sociology ½
- Psychology ½
- Contemporary Issues** ½

**This course does not satisfy the Social Studies requirement.**

**Technology Education**
- Manufacturing, Design and Prototyping ½
- Production, Materials and Manufacturing ½
- Introduction to Woodworking ½
- Product Fabrication and Design ½
- Battle Bots for Competition 1
- Toys for Tots Manufacturing ½
- TED Mechanical ½
- TED Civil ½
- TED Electrical ½
- TED Industrial ½
- TED Honors 1

- Steel Center Vocational Technical School 3

**Health/Physical Education**
- Health and Wellness ½
- Fitness/Nutrition/Weight Lifting ½
- Competitive Sports ½

A one (1) credit Graduation Project must be completed prior to graduation.
Course Descriptions

BUSINESS EDUCATION

ACCOUNTING I
(Full year course - 1 credit)

Accounting I is an elective course intended to provide a solid foundation for students with various career objectives. Some students seek preparation for entry-level accounting jobs. Others look forward to careers in related business fields for which knowledge of some accounting is needed. Some students seek a foundation on which to continue studying business and accounting at the collegiate level. The complete accounting cycle in its simplest form is presented, and students learn the basic procedures used to operate a business. Using manual skills, students perform accounting tasks for service businesses organized as proprietorships and for merchandising businesses organized as partnerships. Using computer skills, students also learn to automate the complete accounting cycle.

Criteria for selection-
1. Elective course with no prerequisite
2. Recommended for students in grades 10 through 12

ACCOUNTING II
(Full year course - 1 credit)

Accounting II is an elective course intended for students with determined career objectives in the field of business or in the accounting profession. This second-year course is designed for students who want: (1) to become accounting clerks upon graduation from high school; (2) to obtain the accounting skills necessary to advance to the level of bookkeeper following experience as an accounting clerk; (3) to go on to college and major in accounting or some phase of business; or (4) to broaden and improve their knowledge, understanding, and application of accounting principles. At this level, the complete accounting cycle is mastered, and students learn more advanced, complex accounting principles. Using manual and computer skills, students perform accounting tasks for merchandising businesses organized as partnerships and corporations. Using computer skills, students complete two automated simulations.

Criteria for selection-
1. Final Grade of B or better in Accounting I course
2. Recommendation of Accounting I teacher
ENGLISH / COMMUNICATIONS

ENGLISH 9
(Full year course – 1 credit)

Focused on the PA Core Standards, students in this course will read, analyze and respond to both fiction and nonfiction texts, work with daily grammar practice (DGP), and study academic vocabulary. The course curriculum will focus on developing analytical skills related to both fiction and nonfiction texts and responding to the readings with evidence-based writing. Language skills are addressed through DGP and vocabulary instruction and are incorporated into all writing assignments. Course work will involve weekly DGP quizzes, comprehension and analytical activities for all readings, as well as critical and personal written responses to the literature. Research skills will be developed through the completion of an argumentative research paper.

Criteria for selection-
1. All students are required to take a ninth grade English course

ENGLISH 9 HONORS
(Full year course – 1 credit)

Focused on the PA Core Standards, students in this course will read, analyze and respond to both fiction and nonfiction texts, work with daily grammar practice (DGP), and study academic vocabulary. Students in this course are expected to have a strong background in reading comprehension and writing skills and possess the ability to complete extensive independent reading and writing assignments outside the classroom, including a summer reading assignment. The course curriculum will focus on developing analytical skills related to both fiction and nonfiction texts and responding to the readings with evidence-based writing. Language skills are addressed through DGP and vocabulary instruction and are incorporated into all writing assignments. Course work will involve weekly DGP quizzes, comprehension and analytical activities for all readings, as well as critical and personal written responses to the literature. Research skills will be developed through the completion of an argumentative research paper as well as smaller research units designed around the novel read for class.

Criteria for selection-
1. Final grade of A or B in English 8
2. Teacher recommendation
ENGLISH 10
(Full year course – 1 credit)

The 10th grade English curriculum is designed to emphasize the major facets of English education: grammar, composition, vocabulary, literature, and public speaking. Coursework will include daily grammar practice (DGP) and applying these grammar rules to both the written and spoken word. Additional coursework consists of reading fiction, non-fiction, poetry, and one Shakespearean drama. Assignments are specifically designed around the PA Common Core Standards with the ultimate goal of students receiving a score of Proficient or Advanced on the Keystone exam administered at the end of the course in May.

Criteria for selection-
1. All students are required to take a tenth grade English course

ENGLISH 10 HONORS
(Full year course – 1 credit)

This course is designed for students who are highly motivated and want to prepare for the demands of college by completing this rigorous, fast-paced course. The 10th grade Honors English curriculum is designed to emphasize the major facets of English education: grammar, composition, vocabulary, literature, and public speaking. Coursework will include daily grammar practice (DGP) and applying these grammar rules to both the written and spoken word. Additional coursework consists of reading fiction, non-fiction, poetry, and one Shakespearean drama, which are explicitly chosen for the Honors student. Students are expected to complete reading independently and outside of class. Therefore, this course requires completion of a summer reading assignment. Assignments are specifically designed around the PA Common Core Standards with the ultimate goal of students receiving a score of Proficient or Advanced on the Keystone exam administered at the end of the course in May.

Criteria for selection-
1. Final grade of A or B in English 9 or English 9 Honors
2. Teacher recommendation

ENGLISH 11
(Full year course – 1 credit)

Eleventh grade English provides a chronological survey of American literature from pre-colonial times through the modern era so that students will gain further insight into literary analysis directly within the contexts of American history. In addition, vocabulary, grammar, reading of various genres, and writing instruction will be integrated into the students’ assignments, which will align with the Common Core standards. These are skills that they will also need to succeed on the various college entrance tests. Students must also complete a structured MLA-based project, which is designed to introduce the steps of the research process such as data collection, organization, compiling a Works Cited page, drafting, revising, and publishing a paper. All aspects of these strategies will be incorporated into the classroom instruction so that students will learn to write an effective paper in preparation for post-secondary education.

Criteria for selection-
1. All students are required to take an eleventh grade English course
ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION
(Full year course – 1 credit)

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. This yearlong course prepares students for the AP Language and Composition exam administered in May.

Criteria for selection-
1. Final grade of A or B in English 9 Honors and English 10 Honors
2. Teacher recommendation

ENGLISH 12
(Full year course – 1 credit)

English 12 is the fourth of four courses aligned to the PA Common Core Standards for English and Language Arts to satisfy Brentwood High School graduation requirements in the English sequence. English 12 requires students continue to analyze increasingly complex informational texts and works of literature with an emphasis on comprehension, vocabulary acquisition, and making connections among ideas and between texts. Students complete a research-based paper, conducting research while considering the credibility, reliability, and validity of sources. Core curricular components include Beowulf, The Canterbury Tales, Sir Gawain and the Green Knight, Shakespeare’s Macbeth and A Midsummer Night’s Dream, Shelley’s Frankenstein, Swift’s A Modest Proposal and Austen’s Pride and Prejudice.

Criteria for selection-
1. All students are required to take a twelfth grade English course

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION
(Full year course – 1 credit)

AP English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through independent, close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style, and theme as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. This reading necessarily builds upon the reading done in previous English courses, including the study of representative works from various genres and periods and concentrating on works of recognized literary merit. The pieces, from Shakespeare’s Macbeth and Much Ado about Nothing to Ellison’s Invisible Man or Faulkner’s As I Lay Dying, from Rossetti’s Goblin Market or Eliot’s The Wasteeland, all invite and reward rereading and do not, like ephemeral works in such popular genres as detective or romance fiction, yield all (or nearly all) of their pleasures of thought and feeling.
the first time through. While the CollegeBoard AP Exams are a culminating assessment in all AP courses, sitting for the AP Literature and Composition exam is not a course requirement. The rigor of this collegiate-minded offering, however, is designed to provide students the greatest chance of success on the AP test.

Criteria for selection-
1. Final grade of A or B in English 9 Honors, English 10 Honors, and English 11 Honors
2. Teacher recommendation
3. Departmental approval

VIDEO PRODUCTION I
(Semester course – ½ credit)

Video Production I introduces students to the basics of video production through a theory-based, hands-on approach. Topics include the fundamental technical aspects of the digital video camera, camera shots and composition, aesthetic elements and techniques, and non-linear editing in Sony Vegas. After learning the principles of creative camera shots, composition and editing, students will complete short video productions such as a commercial, public service announcement, music video, and news package.

Criteria for selection-
1. Elective course with no prerequisite

VIDEO PRODUCTION II
(Semester course – ½ credit)

Video Production II builds upon the skills learned in Production I. The course provides students the opportunity to learn through a theory-based, hands-on approach. Students will further develop their digital nonlinear editing skills through the Sony Vegas and Adobe Premier editing programs. In addition, students will begin to learn the fundamentals of animation and motion graphics by experimenting and producing small-scale projects using Adobe After Effects.

Criteria for selection-
1. Successful completion of Video Production I

GRAPHIC DESIGN I
(Semester course – ½ credit)

Graphic Design introduces students to digital art and technology. In this class students will use design as a creative process in communication. Students will also explore various methods used to create and combine words, symbols, and images to create a visual representation of ideas and messages. Students will use the basic elements and principles of art and also learn how to use the computer program Adobe Photoshop.

Criteria for selection-
1. Elective course with no prerequisite
GRAPHIC DESIGN II  
(Semester course – ½ credit)

Graphic Design II builds on the skills learned in Graphic Design I. The course will provide students the opportunity to create complex graphic design using Adobe Photoshop as well as incorporate Adobe Illustrator into their design process. This course develops and refines creative skills used in business and advertising. Training in multiple art skills includes package design, poster design, typography, layout, composition, color theory, and corporate and personal logotypes. Students learn to present graphic designs in a professional manner.

Criteria for selection-  
1. Successful completion of Graphic Design I

PHOTOGRAPHY AND DESIGN  
(Semester course – ½ credit)

Photography and Design will introduce students to the fundamentals of digital photography and utilize their original photography to create digital photo illustrations. Four areas of instruction will be emphasized: How cameras work, how composition works, how lighting works, and how to use photo editing software. Once students have a solid understanding of photography, they will be introduced to the fundamentals of Adobe Photoshop to enable them to apply graphic design elements to their original photography.

Criteria for selection-  
1. Elective course with no prerequisite

YEARBOOK/NEWSPAPER  
(Full year course – 1 credit)

Yearbook/Newspaper is a multimedia course designed for students to understand the complex and ever-changing role of the journalist in today’s society. While serving as staff members and editors for the school’s newspaper and yearbook, students in this course, will discuss the legal aspects of publication, developing their interviewing, pre-writing, revising and copy editing skills. Students will learn how to write effective headlines, cut lines, captions, and leads while writing feature, news, opinion, and sports stories for the online newspaper, The Minaret. Layout techniques and basic photography and graphic design, using Adobe Photoshop, will be taught while students layout pages for The Anthem, the high school yearbook.

Criteria for selection-  
1. Elective course with no prerequisite
FAMILY & CONSUMER SCIENCES

TEEN LIVING 9
(Semester course - ½ credit)

This course is for ninth grade students who are interested in food science & preparation, nutrition, child development, & consumerism. Students will explore each of these areas by completing projects, activities and cooking labs to enhance their learning. Students will also learn how to apply these concepts into their daily lives.

Criteria for selection-
1. Elective course with no prerequisite

FOODS & NUTRITION I
(Semester course - ½ credit)

This course is designed to enable students to prepare appetizing & nutritious meals. Emphasis is placed on food preparation, with frequent and varied cooking laboratory experiences. Food preparation principles are studied and applied to diverse food topics. The nutritional content of food is studied for students to make informed choices for a healthy lifestyle.

Criteria for selection-
1. Elective course with no prerequisite

FOODS & NUTRITION II
(Semester course - ½ credit)

This course is designed for students to continue to develop skills learned in Foods & Nutrition I. Emphasis is placed on higher levels of food preparation with a wide variety of cooking laboratory experiences. Food preparation principles are studied and applied to diverse food topics. The nutritional content of food will be studied and applied to laboratory experiences throughout the course.

Criteria for selection-
1. Final passing grade in Foods & Nutrition I
FINE ARTS

ART 9
(Semester course – ½ credit)

Students in this course will be given the opportunity to create many successful art projects despite their skill level. The course curriculum begins with mediocre complexity and allows growth with creativity and proficiency. The students will be taught basic fundamentals in drawing and will be able to elaborate on it given their desire and persistence. The course work will include optical illusion drawings, tessellations, pop art paintings, ceramic candle holders, grid drawings/paintings as well as the introduction of watercolor. The students will leave this elective class with a firm understanding on what to expect in their future art classes.

Criteria for selection-
1. Elective course with no prerequisite

GENERAL ART
(Semester course - ½ credit)

Students in this course will be exposed to a variety of different mediums, but will focus on the core aspect of drawing. Drawing is the foundation for artistic expression. Without a concentration in drawing, the students would not have the proper tools to further create art using different mediums. The course curriculum will include lessons attributing famous artists and the movements of their affiliation. Some of the famous artists and their movements are: Van Gogh/Post-Impressionism, Picasso/Abstract, Seurat/Pointillism, and Warhol/Pop. The course work will involve an assortment of projects including perspective and portrait drawing, canvas painting, ceramics, collage, papier-mâché, watercolor, and printmaking.

Criteria for selection-
1. Elective course with no prerequisite

INTRODUCTION TO PAINTING
(Semester course – ½ credit)

This course is designed to elaborate on student’s prior knowledge of painting. We will focus on learning formal painting techniques along with using a wide array of painting mediums. Throughout the duration of the course the students will learn how to use acrylic, watercolor, and oil paints. We will touch on various elements of art, primarily referencing value, color, and line. The students will develop a strong grasp on the blending and application process of using color.

Criteria for selection-
1. Elective course with no prerequisite
ILLUSTRATION AND 2D MEDIUMS
(Semester course – ½ credit)

This art course will explore the world of 2 dimensional work, utilizing a number of mediums to create dynamic works that tell a story or convey an emotion. Drawing will be a prevalent aspect of this course, but students will also work extensively with paint, fabric dye, markers, and ink. Various techniques and styles will be explored in order to create a wide variety of 2D works. Elements of design will be studied in this class as well, teaching students how to set up an interesting and effective image through the use of composition and negative space.

Criteria for selection-
1. Elective course with no prerequisite

3D MEDIUMS
(Semester course – ½ credit)

This art course will explore the world of 3 dimensional mediums, including jewelry making, movie prop construction, and sculpture. Students will learn techniques such as wax casting, where they will melt metal with an acetylene torch and pour it into molds to create jewelry, and utilizing craft foam in order to create realistic looking, functional movie or video game props. The elements of this course are much more sculptural in nature, requiring minimal drawing skills but encouraging students’ problem solving capabilities.

Criteria for selection-
1. Elective course with no prerequisite

ART III – INDEPENDENT STUDY
(Full year course – 1 credit)

Students in this course will utilize the freeform class structure to develop technique and improve skills in desired areas. Essentially a portfolio building class, students will complete projects of their own choosing, creating a body of work that is reflective of their artistic style and voice. The instructor in this class acts more as a facilitator allowing students to explore the content and experience a student-lead learning environment. In addition to honing previously learned skills, students will also be introduced to a number of advanced techniques, independently and as a group. The course also encourages students to experiment, affording students the opportunity to work in mediums not learned in previous classes. Students will be graded based on the quality of their work, the evidence of progress made throughout the duration of the year, and the efficacy of their class time use.

Criteria for selection-
1. Final grade of C or better in any Art class
2. Prior completion of a minimum of 2 Art credits
3. Approval from course instructor
ART HONORS
(Full year course – 1 credit)

Students in this course will enhance their creativity and develop their own style in art. The students will produce a portfolio of artwork which will be beneficial in their quest to expand their talent in their future education. The course curriculum will focus on many different genres of artistic expression. The students are given freedom to create art using any medium that they are comfortable with; however, they are also encouraged to attempt new and different art forms. Course work for each nine week period will include four complete projects. The students are also required to keep art journals. At the end of each week, a class art critique will be held to discuss their art work and journal entries.

Criteria for selection-
1. Final grade of B or better in any Art class
2. Prior completion of a minimum of 2 Art credits
3. Recommendation of prior Art teacher

HIGH SCHOOL BAND
(Full year course – 1 credit)

Students in this course will continue to develop their skills in performing music on an approved band instrument in both a marching band and a concert band setting. Marching band begins immediately after school lets out in June with sectionals, rookie marching camp, and full band rehearsals to prepare for the Brentwood Fourth of July Parade. A two-week band camp in the last week of July and the first week of August is mandatory for every member. The marching band performs at every football game (home and away), a few parades including the Brentwood Fourth of July Parade, Kennywood Fall Fantasy Parade, Pittsburgh Veterans Day Parade, and Brentwood Memorial Day Parade, as well as a few band festivals in August through November. As the marching season winds down after the first nine weeks grading period, the concert band begins to prepare for the winter concert held in December and the spring concert usually held the last Wednesday in April. Following the spring concert, marching band resumes in preparation for the Brentwood Memorial Day Parade. The band travels to Orlando, FL in February/March on even numbered years.

Criteria for selection-
1. Students must have previous experience in band, audition or teacher recommendation.

HIGH SCHOOL BAND HONORS
(Full year course – 1 credit)

High school band members in grades 11 and 12 with a minimum of two years band experience may apply for honors band and receive a weighted grade. In addition to the curriculum in band, honors band students must audition for the PMEA Honors Band. Audition music for each instrument rotates on a four-year cycle and is available through Volkwein’s Music. It is the student’s responsibility to secure the music early and prepare for auditions usually held on the first Monday of October. Other course requirements include application to or participation in the
PMEA District 1 Senior High School Band or Orchestra Festivals, performing a solo, participation in an ensemble or in the musical pit orchestra, peer-tutoring or providing private lessons for other students, and running sectional rehearsals.

Criteria for selection-
   1. Students must be recommended by instructor for this course.

**HIGH SCHOOL JAZZ BAND**
(Full year course – 1 credit)

Jazz band provides students with the opportunity to explore a wide repertoire of popular music ranging from swing and other forms of jazz to rock n’ roll and contemporary hits. This smaller ensemble includes alto saxophones, tenor saxophones, baritone saxophone, trumpets, trombones, piano, guitar, bass, drum set and auxiliary percussion. The jazz band performs at the winter and spring band concerts as well as other community performances throughout the school year.

Criteria for selection-
   1. Previous participation in band, audition and/or teacher recommendation.

**HIGH SCHOOL CHORUS**
(Full year course – 1 credit)

The high school chorus is a performing ensemble designed to teach and develop vocal music skills. Through the implementation of Kodály sight-singing & vocal technique training, members will demonstrate expected levels of vocal abilities in an accepted and professional manner, whether performing individually, in small groups or in the full ensemble. Chorus members are given an opportunity to advance according to their skill levels and interests through extra-curricular activities such as the PMEA Choral Festivals on a district, region and state level. High school chorus is an elective course which will meet and rehearse in a scheduled class period each day. The chorus performs in the winter and spring chorus concerts as well as other community functions. Participation in these concerts is expected and absence from a performance may affect the student’s grade in the course.

Criteria for selection-
   1. Previous participation, audition and/or teacher’s recommendation.
FOREIGN LANGUAGES

GERMAN I
(Full year course – 1 credit)

German I is the foundation of the language of German. The German I student begins with pronunciation of letters and sounds and learning to introduce oneself and greet others. Basic classroom commands are taught and then the students expand into discussions of people’s homes and interests. They learn to discuss likes and dislikes, offering hospitality, discussing family and friends, school life, reacting to good news and bad news, shopping for things, discussing costs, and giving compliments. They write their first essays, detailing their daily life. By the end of the school year, German I students are expected to make plans with others using their knowledge of at least 30 verbs, with correct conjugations. The recognition of grammatical patterns and rules such as forming plurals is necessary for success in German I.

Criteria for selection-
1. Teacher recommendation
2. Elective course with no prerequisite

GERMAN II
(Full year course – 1 credit)

German II relies upon the foundation gained in German I. Students begin by mastering additional verbs that are modals/auxiliaries. They then continue use of the modal verbs to express obligations and decline invitations. Students learn to offer help to people in the form of everyday tasks. German II begins introduction to the past tense of verbs and students then learn to say what tasks they have completed. The grammar in German II then becomes more complicated as indirect objects and adjectives are used to make the language more precise. Students continue with past tense and saying what they did and for whom. Projects in German II also include mastery of famous German-born people and introducing oneself in the form of a speech/presentation.

Criteria for selection-
1. Teacher recommendation
2. Final grade of C or better in German I

GERMAN III
(Full year course – 1 credit)

German III is a challenging year with regard to grammar. The third year employs more synonyms of the vocabulary mastered in German I and II. It also relies on the mastery of the accusative and dative cases so that the student can now express more precisely and read more authentic texts. German III revisits the past tense and applies the past so that the students can write a sequence of events that happened. From there, students can now say what they did, and write
where they were with correct prepositions, and how they feel about their experiences. They then learn to employ reflexive verbs and give opinions and regrets. They then learn to express pain, offer help and give advice.

Criteria for selection-
1. Teacher recommendation
2. Final grade of B or better in German II

GERMAN IV HONORS
(Full year course – 1 credit)

German IV Honors introduces more grammar in the form of another past tense form (the narrative), the genitive (possessive) case and adjective endings. The past tense mastery allows the German IV student to work better with authentic narratives. They read their first novel in German and discuss literary devices from a German perspective. The German IV student learns to make comparisons, use grammatically challenging adjectives, and give suggestions. They learn the history of German cities, and employ prepositions to describe cities and make suggestions on what one can do in the German city. Finally, they combine their grammar/vocabulary experience to gain knowledge of Germany’s geography and describe it orally in a twenty minute presentation.

Criteria for selection-
1. Teacher recommendation
2. Final grade of B or better in German I, II, and III

ADVANCED PLACEMENT GERMAN V (AP GERMAN LANGUAGE AND CULTURE)
(Full year course – 1 credit)

This class is organized around the College Board’s theme suggestions for AP German. We begin the year with a unit about people and personal traits. We will learn vocabulary surrounding the themes of our appearance and how we can make suggestions to people. Our next themed unit teaches about social groups and we learn to express points of view in more precise ways than we learned in previous years. The third theme is the environment. We look at physical geography and then expand the topic to problems in our environment and how people react to them. Then we spend time reading about the history of Germany from the first chancellor up to today’s Germany. They will read materials and answer comprehension questions that provide a concise knowledge of what historical events led Germany to where it is today. Last, we read the novel _Emil und die Detektive_ and learn literary devices while reading in the authentic text. Routines that we will have in German 5 AP are regular vocabulary building using AP German words, listening to a soap opera, using the Goethe Institute’s videos about German daily life, studying German news and practice AP exams.

Criteria for selection-
1. Teacher recommendation
2. Final grade of B or better in German IV
SPANISH I
(Full year course – 1 credit)

The first year course in Spanish provides the foundation for the four essential skills: listening, speaking, reading, and writing. The students learn everyday situations through unit themes, such as greeting others, inviting friends, expressing emotions and opinions, and seeking information about personal details, school, food, and family. In addition, ample written exercises and a variety of activities reinforce vocabulary usage and grammatical structures. Listening skills are developed using teacher and peer conversations as well adding enrichment with cultural insights and perspectives.

Criteria for selection-
1. Teacher recommendation
2. Elective course with no prerequisite

SPANISH II
(Full year course – 1 credit)

In this level of Spanish study, students will build on the basic vocabulary learned in Spanish I. Students will improve their abilities to write, speak, read and understand the target language as well as the culture of Spanish speakers throughout the world. Course work will involve grammar exercises and small projects to practice the past tense, object pronouns, and commands while focusing on the themes of shopping, celebrations, traveling, healthy living, careers, and giving directions around town.

Criteria for selection-
1. Teacher recommendation
2. Final grade of C or better in Spanish I

SPANISH III
(Full year course – 1 credit)

In this level of Spanish study, students will continue to increase their vocabulary. Students will study vocabulary relating to: school activities, injuries to the body, daily activities, hobbies, childhood activities, personal descriptions, ordering in a restaurant, cooking, shopping in open air markets, nature, and traveling. Students will continue to improve their abilities to produce and understand the target language. They will enhance their grammar skills by focusing on: irregular preterit conjugations, reflexive verbs, participles as adjectives; negative expressions; the imperfect tense; forming adverbs; using commands with two object pronouns; the subjunctive; as well as distinguishing between imperfect and preterit tenses.

Criteria for selection-
1. Teacher recommendation
2. Final grade of C or better in Spanish II
SPANISH IV HONORS
(Full year course – 1 credit)

In this honors level of Spanish study, students will further their abilities to communicate in Spanish by learning advanced vocabulary and grammar. Students will increase their abilities to fluidly write and speak, as well as to comprehend spoken and written language. Students will make brief presentations, write journal entries, as well as study history and literature. The course is conducted primarily in Spanish; thus, the students are expected to use more Spanish than in previous years, to aid in comprehension and development of the target language. English is used to reinforce topics and grammar.

Criteria for selection-
1. Teacher recommendation
2. Final grade of B or better in Spanish I, II, and III

ADVANCED PLACEMENT SPANISH V (AP SPANISH LANGUAGE AND CULTURE)
(Full year course – 1 credit)

The AP Spanish V course is designed to hone the four skills of language learners: listening, speaking, reading and writing. The teacher will speak almost exclusively in Spanish. Students will also be encouraged to speak exclusively in Spanish while they analyze literature and work with complex grammar structures. The vocabulary taught is in accordance with the themes established by the CollegeBoard: global challenges, science and technology, contemporary life, personal and public identities, families and communities, as well as beauty and aesthetics. Each unit is structured to include conversations in Spanish, speaking assessments, AP practice test questions, and written journal entries that will reinforce the difference between formal and informal language structures.

Criteria for selection-
1. Teacher recommendation
2. Final grade of B or better in Spanish IV Honors
HEALTH & PHYSICAL EDUCATION

HEALTH AND WELLNESS
(Semester course – ½ credit)

The purpose of this health class is to provide students with the basic framework of knowledge to develop a healthy lifestyle and to understand that they are responsible for their own health. Students will obtain, interpret and understand basic health information and services and be competent to use such information and services in ways that promote health. Students will have the opportunity to incorporate decision making skills and healthy choices throughout the following units: basic nutrition, health triangle, skin health, healthy relationships/dating violence, adolescent decision making/STIs/AIDS/HIV, drug abuse, technology and our health, and mental health (depression/anxiety/suicide). A combination of lectures, class discussions, computer labs, Power Point presentations, guest speakers, videos and student activities will show students that decisions they make now can promote health and enjoyment in the future.

Criteria for selection-
1. Course must be completed in either 10th, 11th or 12th grade

FITNESS/NUTRITION/WEIGHT LIFTING
(Semester course – ½ credit; Lab PE – ⅗ credit)

The emphasis of this course is on life-long exercise principles combined with the immediate benefit of an aerobic and strength workout. Students will experiment with different types of workouts and be encouraged to apply the information to their own body and level of conditioning. Activities could include, but are not limited to, yoga, pilates, water aerobics, toning vs. building muscle, program design, proper nutrition, training with weights, dumbbells, and kettle bells, bose balls, physio balls, zumba, modified boot camp, walk aerobics, dance aerobics, meditation and other specialized training. Since learning to know one's own abilities while implementing general principles is the objective, individualization is encouraged and all levels of conditioning are welcome. A fitness assessment will be conducted two to three times during the semester to determine a student’s physical fitness level and aid in developing a personalized program to progress an individual to the next level of fitness. All students should be appropriately dressed for class; athletic shorts/sweatpants with drawstring, secured tennis shoes and a t-shirt/sweatshirt are required. Students will be evaluated on dress and active participation. This course is available to all students who aspire to improve or enhance their personal wellness.

Criteria for selection-
1. Physical education is required for all students in grades 9-12
COMPETITIVE SPORTS
(Semester course – ½ credit; Lab PE – ⅗ credit)

Students in this course will be engaging in a variety of competitive sports/games encouraging fitness and lifetime recreation. The curriculum will focus on basketball, kickball, softball, ultimate Frisbee, 4 square volleyball/volleyball, handball, badminton, football-touch/flag, hockey, nitroball, wombat ball, speedball, outdoor activities, etc. All students should be appropriately dressed for class; athletic shorts/sweatpants with drawstring, secured tennis shoes and a t-shirt/sweatshirt are required. Students will be evaluated on dress and active participation. Students who take this course must be highly motivated due to the competitive play.

Criteria for selection-
1. Physical education is required for all students in grades 9-12

MATHEMATICS

ALGEBRA I PART 2
(Full year course – 1 credit)

This course is designed to complete the study of Algebra I. Mastery of basic computation and foundational algebra skills is expected. Course content is aligned to the Algebra I Keystone Anchors and will include units on Linear Equations and Inequalities, Functions and Coordinate Geometry, Systems of Linear Equations and Inequalities, Polynomial Operations, and Data Analysis and Probability. Emphasis will be placed on application problems that focus on developing critical thinking and modeling skills. Students will be encouraged to represent their solutions to problems in a variety of ways, including algebraically, graphically, numerically, and verbally. Students will sit for the Keystone Exam in May.

Criteria for selection-
1. Completion of Algebra I Part 1

ALGEBRA I KEYSTONE PRACTICUM
(Semester course – ½ credit)

The Keystone practicum course will provide students with the knowledge and skills needed to achieve success on the Algebra I Keystone exam. The course is designed around the essentials of Algebra I which include operations with real numbers and expressions, linear equations, linear inequalities, functions, coordinate geometry, and data analysis. Upon completion of the semester course, students will retake the exam in either the January or May testing window.

Criteria for selection-
1. Scoring at the Basic or Below Basic level on the most recent Algebra I Keystone Exam
ALGEBRA II
(Full year course – 1 credit)

This course is designed for the academic level student and is aligned to the PA Keystone Algebra II Anchors. Throughout the year, topics studied in Algebra I will be taken to a more advanced level of understanding. Emphasis is placed on problem solving and developing critical thinking skills. Course content will include the study of the quadratic, rational, and radical function families. Students will also gain knowledge in the real and imaginary number systems. In addition, students will study polynomial operations, systems of equations, data analysis and probability, and will be introduced to exponential and logarithmic functions. Graphing calculators will be used when applicable. Students will be required to complete daily homework. This course is not a review of Algebra I and students should enter this course with a level of proficiency in the skills taught in previous classes.

Criteria for selection-
1. A final average of B or higher in Algebra I (Regular or Parts 1 & 2) OR
2. Proficient or Advanced Score on the Algebra Keystone Exam

ALGEBRA II HONORS
(Full year course – 1 credit)

This course is designed for the advanced level student who desires a more challenging course of study. The curriculum is aligned to the Algebra II Keystone Anchors. Throughout this course, students will develop a more in-depth study of the concepts of analyzing and interpreting data, problem solving, and functions. Course content will include the use of graphics calculators as an integral part of this course. Students will be expected to complete daily homework assignments. This course will move at an accelerated pace allowing additional topics to be incorporated into the curriculum. Students are expected to be active participants.

Criteria for selection-
1. Teacher recommendation
2. No nine week grade lower than a B in Algebra I or Algebra I Part 2
3. Proficient or above on the Algebra Keystone Exam

GEOMETRY
(Full year course – 1 credit)

The study of plane geometry has two points of emphasis. The first is to learn and apply numerous geometric properties to real world situations. The second is to provide students with an opportunity to develop organizational abilities and both deductive and inductive reasoning skills. The student will review coordinate geometry and use those skills to relate geometry to Algebra. They will also learn segment, angle and line relationships, properties of triangles and quadrilaterals, similarity and congruence, polygon topics, surface area and volume of three dimensional figures, circles and right triangle trigonometry. Daily homework is a course requirement.

Criteria for selection-
1. Completion of Algebra II
GEOMETRY HONORS  
(Full year course – 1 credit)

The study of plane geometry has two points of emphasis. The first is to learn and apply numerous geometric properties to real world situations. The second is to provide students with an opportunity to develop organizational abilities and both deductive and inductive reasoning skills. Congruency, similarity, and inequality are investigated and proofs are developed through the application of postulates, definitions, and theorems. Students will develop skills using a compass and straightedge to complete constructions. Additional topics include the concepts of coordinate geometry, transformations, and the perimeter, area, and volume of plane figures and solids. This course follows the same progression as Geometry, but provides additional examples of real world applications and the opportunity to explore topics more fully. Daily homework is a course requirement.

Criteria for selection-
1. Teacher recommendation
2. No nine week grade lower than a B in Algebra II

MATHEMATICAL PRINCIPLES & APPLICATIONS  
(Full year course – 1 credit)

Mathematical Principles and Applications will provide students with the fundamental high school mathematics topics required for entry level college math courses, as well as entrance to a technical school program. Students will be taught an introduction to statistics, data analysis and lines of best fit, and the use of probability and odds. Students will also learn personal finance skills that apply to daily life beyond high school. These skills will include balancing a budget, calculating gross and net pay, determining interest and monthly payments on a loan, saving and investing, and other related applications. Calculators will be used throughout the course, however, students should be proficient in fraction, decimal, and percent computation.

Criteria for selection-
1. Completion of Algebra II and Geometry

MAT – 090 ALGEBRA FUNDAMENTALS  
(Full year course – 1 credit)

This is a course in the fundamentals of algebra. Included are such topics as the real number system, operations on polynomial expressions containing variables, word problems, special products and factoring, and solution sets of equations and inequalities in one variable. Included also are rational expressions and an introduction to the rectangular coordinate system. Students who place into this course are eligible to receive credit for the course through CCAC’s College in the High School program. They must take MAT 108 (Intermediate Algebra – see course description below) concurrently. PLEASE BE ADVISED THIS MEANS THE STUDENT WILL BE REGISTERED FOR TWO PERIODS OF MATH. Students have the opportunity to earn college credit at a reduced cost through a partnership with CCAC pending fulfillment of established criteria. Credits may be transferable to other colleges and universities.
Criteria for selection-
1. Completion of Algebra II
2. Placement into the course using the CCAC placement exam

**MAT – 108 INTERMEDIATE ALGEBRA**
(Full year course – 1 credit)

This is a course in intermediate algebra. Included are such topics as operations with linear, quadratic, rational, absolute value, and higher degree polynomial equations and functions, exponents, radicals and complex numbers, the Cartesian coordinate systems including lines and conic sections, and systems of equations. Students who place into this course are eligible to receive credit for the course through CCAC’s College in the High School program. **Students have the opportunity to earn college credit at a reduced cost through a partnership with CCAC pending fulfillment of established criteria. Credits may be transferable to other colleges and universities.**

Criteria for selection-
1. Completion of Algebra II
2. Placement into the course using the CCAC placement exam

**TRIGONOMETRY AND PRECALCULUS**
(Full year course – 1 credit)

The purpose of this course is to prepare students for the study of calculus. Course content will concentrate on the trigonometric functions and their applications. Students will analyze and graph the trigonometric functions, as well as solve problems involving trigonometric identities. In addition, students will study precalculus concepts such as exponential and logarithmic functions and analysis of function behavior. Graphing is emphasized throughout the course and students will continue to use the TI-84 graphics calculator. Students are required to own a calculator, either graphing or scientific for their own use. **Students have the opportunity to earn college credit at a reduced cost through a partnership with Carlow University pending fulfillment of established criteria. Credits may be transferable to other colleges and universities.**

Criteria for selection-
1. Completion of Geometry

**TRIGONOMETRY AND PRECALCULUS HONORS**
(Full year course – 1 credit)

The purpose of this course is to prepare students for the study of calculus and to expand upon the mathematical concepts learned in prior courses. Course content will focus on the trigonometric functions and their applications. Students will analyze and graph the trigonometric functions, as well as solve problems involving trigonometric identities. The students will also study exponential and logarithmic functions. The course will conclude with an introduction to function behavior and limits. This course will move at an accelerated pace and will include extra topics not covered in
the regular course. Additional concepts covered in the Honors course include vectors, parametric equations, and polar coordinates. Graphing is emphasized throughout the course and students will continue to use the TI-84 graphics calculator which is provided. Students are required to own a calculator, either graphing or scientific for their own use. **College credit at a reduced cost is available through a partnership with Carlow University pending fulfillment of established criteria.**

Criteria for selection-
1. Teacher recommendation
2. B average or better in Geometry

**ADVANCED PLACEMENT CALCULUS AB**
(Full year course – 1 credit)

AP Calculus AB is a full year course in differential and integral calculus. The curriculum follows the standards and content established by the College Board. The course will cover 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. As a college-level course, AP Calculus will be paced accordingly. Time spent outside of class will be required. Students can sit for the AP Exam in May to earn college credit for a qualifying score of 3 or higher. *Students also have the opportunity to earn college credit at a reduced rate through the College in the High School partnership with Carlow University.*

Criteria for selection-
1. Teacher recommendation
2. B average or better in Trigonometry and Precalculus (Regular or Honors)

**ADVANCED PLACEMENT CALCULUS BC**
(Full year course – 1 credit)

AP Calculus BC extends the content learned in AB to different types of equations (polar, parametric, vector-valued) and new topics (such as Euler's method, integration by parts, partial fraction decomposition, and improper integrals), and introduce sequences and series. It is equivalent to a second semester college calculus class and will be paced accordingly. The course continues to emphasize the “four corners” approach to solution representation and will continue to use technology in problem-solving. Students can sit for the AP Exam in May to earn college credit for a qualifying score of 3 or higher.

Criteria for selection-
1. B average or better in AP Calculus AB or Honors Calculus
ADVANCED PLACEMENT STATISTICS
(Full year course – 1 credit) NMSI

AP Statistics is equivalent to a one-semester, introductory, non-calculus based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. As a college course, AP Statistics will be paced accordingly. Time outside of class will be required. Students have the opportunity to sit for the AP Exam in May to earn college credit for a qualifying score of 3 or higher.

Criteria for selection-
1. Teacher recommendation
2. B average or better in both Algebra II and Geometry (Regular or Honors)

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
(Full year course – 1 credit) NMSI

AP Computer Science Principles is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

Criteria for selection-
1. Teacher recommendation
2. B average or better in Algebra II (Regular or Honors)
SCIENCE

SCIENCE 9
(Full year course – 1 credit)

Science 9 is an integrated science course that will examine both physical and life science. Students will explore topics such as atoms, chemical reactions, molecules, ecology, populations, and biodiversity. This course is designed to provide students with a solid foundation in science and improve scientific literacy. Course work will include inquiry-based labs and hands-on activities that will reinforce topics taught during the year.

Criteria for selection-
1. Recommendation of 8th grade science teacher

BIOLOGY I
(Full year course – 1 credit)

Students in this course will develop an understanding of the major themes of biology such as the characteristics of life, chemistry of life, cellular biology, genetics, evolution, anatomy and ecology. Course work will include inquiry-based labs and hands-on activities that will reinforce topics taught during the year. At the end of the year, students will be given the Biology Keystone Exam.

Criteria for selection-
1. Recommendation of 8th grade science teacher

BIOLOGY I HONORS
(Full year course – 1 credit)

Biology I Honors is an accelerated course intended to teach students about the major themes of biology. A focus will be placed on biochemistry, cellular biology, genetics, evolution, anatomy and ecology. The goal of this course is to help students develop an understanding of key biological concepts and to strengthen their critical-thinking skills. Course work will include readings, lab reports (both formal and informal) and hands-on activities that will reinforce topics taught during the year. At the end of the year, students will be given the Biology Keystone Exam.

Criteria for selection-
1. Recommendation of 8th grade science teacher

BIOLOGY KEYSTONE PRACTICUM
(Semester course – ½ credit)

The keystone practicum course will provide students with the knowledge and skills needed to achieve success on the Biology Keystone exam. The course is designed around the essentials of
Biology which include the basic biological principles, chemical basis of life, bioenergetics, homeostasis and transport, DNA, RNA, and protein synthesis, cell growth and reproduction, patterns of inheritance, biotechnologies, evolution, and ecology. Upon completion of the semester course, students will retake the exam in either the January or May testing window.

Criteria for selection-
1. Scoring at the Basic or Below Basic level on the most recent Biology Keystone Exam

**BIOLOGY II**
(Full year course – 1 credit)

Biology II is a senior level course intended to prepare students for the rigors of college-level sciences. This course is suggested for students interested in majoring in science or medical-related fields. Students will learn topics such as biochemistry, cytology, genetics, microbiology, evolution, anatomy, and ecology. Course work will include readings, hands-on activities and labs. Formal lab reports are required for the majority of lab activities. Also, students will be required to complete a formal research project on a genetic disorder.

Criteria for selection-
1. Recommendation of 11th grade science teacher
2. Final grade of a C in Biology I or completion of Biology I Honors

**CHEMICAL CONCEPTS**
(Full year course – 1 credit)

Chemical Concepts is an alternative chemistry course emphasizing chemistry’s relevance to the community. It will provide an understanding of the role of chemistry in supplying our water needs, obtaining and conserving chemical resources, and the importance of petroleum.

Criteria for selection-
1. Completion of Biology I

**CHEMISTRY I**
(Full year course, includes Lab Period 2x per Week – 1 credit)

Students in this course will examine the fundamental properties of elements, compounds, and mixtures. Chemical reactions and chemical processes are observed and explained at the atomic and molecular level using the scientific method. Students will integrate conceptual understandings, algebra skills and an ongoing laboratory experience to develop the fundamentals of problem solving, laboratory work, and the practical application of Chemistry. This course requires two additional scheduled periods per week for laboratory experiences. This course is for those students seriously considering a 4-year college and expecting the rigor of a lab science.

Criteria for selection-
1. Final grade of a B in Biology I or completion of Biology I Honors
2. Final grade of C in Algebra I
3. Teacher recommendation
CHEMISTRY I HONORS
(Full year course; includes Lab Period 2x per Week – 1 credit)

Basic principles and concepts of chemistry are discussed in this course. Students will examine topics about the atom, chemical reactions, solutions, acids and bases, equilibrium, nomenclature, compounds, bonding, reaction rates, gases and oxidation-reduction/electrochemistry. Nuclear, organic and biological chemistry topics will be incorporated throughout the course. This course covers seven periods each week. Three of the periods are dedicated to laboratory experiments. Two periods are utilized for problem solving. The remainder of the time is used for lectures, homework answers, demonstrations, and review. The laboratory experiences are an essential part of the course and are related to the topics and concepts being discussed at the time in class. A formal written lab report is required for each lab and must include a discussion on the results and an analysis of the data.

Criteria for selection-
1. A minimum of a B for each non-Biology Honors report period
2. A minimum of a C for each Biology Honors report period
3. A strong Algebra background

CHEMISTRY II (HONORS)
(Full year course; includes Lab Period 2x per Week – 1 credit)

This course is an extension of Chemistry I Honors. Topics covered are similar to the ones covered in Chemistry I Honors but in more detail. Chemistry II involves more complex math problems than encountered in Chemistry I Honors. Topics include atoms, molecules, ions, chemical reactions, thermochemistry, quantum theory, electron configurations and periodicity, ionic and covalent bonding, gases (real), molecular geometry and chemical bonding theory, states of matter, solutions, reaction rates and chemical equilibrium, acid and bases, acid-base equilibria, solubility and complex ion equilibria, and electrochemistry. Laboratory experiments are included and are related to the material being discussed at the time in the class. A formal lab report is required for each lab and must include a discussion on the results and an analysis of the data. Students should have a good understanding of the fundamentals of algebra to be successful in this class.

Criteria for selection-
1. Final Grade of B in Chemistry Honors
2. Recommendation of previous chemistry teacher

PHYSICAL SCIENCE
(Full year course – 1 credit)

Students in this course will examine the following physics topics: mechanics, electricity & magnetism and wave motion. Prerequisite math skills should include, but are not limited to those presented in Algebra I and Geometry. An emphasis is placed on a conceptual understanding of the physics principles that are presented and the ability to generalize concepts from an equation. Coursework involves laboratory activities, in-class assignments and formal assessments that require students to demonstrate problem-solving skills in the context of a science scenario.

Criteria for selection-
1. Recommendation from previous chemistry teacher
PHYSICS
(Full year course – 1 credit)

Students in this course will examine the following physics topics: mechanics, electricity & magnetism and wave motion. Prerequisite math skills should include, but is not limited to those presented in Algebra II. An emphasis is placed on a mathematical understanding of the physics principles that are presented. Coursework involves laboratory activities, in-class assignments and formal assessments that require students to demonstrate problem-solving skills in the context of a science scenario.

Criteria for selection-
1. Pass previous year’s Chemistry course with a C or higher OR Pass Chemistry Concepts with an A or higher AND
2. Recommendation from previous chemistry teacher

ADVANCED PLACEMENT PHYSICS 1
(Full year course; includes Lab Period 2x per Week – 1 credit) NMSI

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits.

Criteria for selection-
1. Pass Honors Chemistry with a C or higher OR Pass Chemistry with an B or higher AND
2. Recommendation from chemistry teacher

ADVANCED PLACEMENT PHYSICS C: MECHANICS
(Full year course; includes Lab Period 2x per Week – 1 credit) NMSI

Students in this course will examine classical Newtonian Mechanics as presented by the College Board’s suggested curriculum. Prerequisite math skills must include Calculus (if not taken previously, then concurrently). A strong emphasis is placed on both mathematical and conceptual understanding of physics principles. Coursework involves laboratory activities, in-class assignments and formal assessments that require students to demonstrate problem-solving skills in the context of an experiment or under a standardized-testing environment.

Criteria for selection-
1. Student intends to choose a math/science/engineering field in college AND
2. Taken calculus previously or taking concurrently AND
3. Pass Honors Physics with a B or higher AND
4. Recommendation from Physics Honors teacher
SOCIAL STUDIES

AMERICAN GOVERNMENT AND PENNSYLVANIA HISTORY
(Full year course – 1 credit)

American Government / PA History is offered to freshmen as a course in civic education. The course is designed to enhance the student’s ability in selecting, evaluating and applying relevant information from local, state and national levels of government to their daily lives. The basic concepts of federalism, duties and responsibilities of citizenship, representative democracy, separation of powers, checks and balances and judicial proceedings are presented to students throughout the year. The learning process provides students with an opportunity to demonstrate their knowledge of the subjects by participating in debates (current events), journal writing, a mock election and the drafting of proposed bills. Students will be required to complete a research project during the “Executive Branch” unit. Pennsylvania History will provide an opportunity to identify and analyze the political and cultural contributions of individuals to our state from the late 1700s to present day. Students will explore how conflict and cooperation among social groups and organizations have impacted the growth and economic development of our state.

Criteria for selection-
1. Required for students in 9th grade

WORLD HISTORY
(Full year course – 1 credit)

World History assumes an integrated approach of learning about our world based upon the relationships between regions, across eras, throughout time. The scope of the course will focus on the interactions between regions, their history, their geography, and how their cultures connect. The connections between world events throughout eras will be a major component of the curriculum. Using the World History approach, students will be exposed to distinct eras through the course of history and will focus on how the interactions of the various regions of the world influenced one another from pre-history until the present day.

Criteria for selection-
1. Required for students in 10th grade

UNITED STATES HISTORY
(Full year course – 1 credit)

Students in this course will study United States History in the Modern Era (1865-present). The course curriculum will provide for a review of the student’s prior knowledge of United States History and then investigate the eras within the late 19th, 20th and 21st century United States respectively. Eras of emphasis will include…Post Civil War Reconstruction, The Gilded Age, and Life at the Turn of the Century, Progressivism, World War I, The Great Depression, World War
II, The Cold War Era, Civil Rights, Vietnam, and the Modern Era. Course work will include reading and writing assignments, research on a variety of topics related to American History, class discussion, and assignments that relate to use of critical/higher order thinking skills.

Criteria for selection-
1. All 11th grade students are required to take a U.S. History course

UNITED STATES HISTORY HONORS
(Full year course – 1 credit)

Students in this course will endeavor an advanced study of United States History that is much more comprehensive than the regular course offering but not as extensive as Advanced Placement United States History. Therefore, it is a college preparatory course but not a college equivalent course such as AP U. S. Whereas the regular United States History course focuses mostly on America in the twentieth century, this is a survey course covering all of U.S. history following the same chronological schedule as AP U. S. (1400s to the present). The class is an extremely rigorous, fast-paced, and detailed study of American history. Students must be highly motivated and possess advanced reading comprehension skills and strong writing skills (writing for this course is significant but is not as extensive as the expectation for AP). Class participation is greatly emphasized as instruction is heavily based on discussion and lecture. Grading will primarily involve multiple choice tests, essays, and weekly quizzes.

Criteria for selection-
1. Grade of a B in 10th grade World Cultures course
2. Recommendation of 10th grade World Cultures teacher

ADVANCED PLACEMENT UNITED STATES HISTORY
(Full year course – 1 credit)

Students in this course will endeavor an extensive and detailed study of United States History designed to prepare them to pass the Advanced Placement United States History Exam offered by The CollegeBoard each year in May. The instructor’s curriculum for this course has been audited and approved by The CollegeBoard as a college credit equivalency course. Taught on the assumption that every student enrolled will take the AP Exam (though not required), no adjustments will be available for students who choose not to take the AP Exam. However, students who take the AP Exam and earn a passing score are awarded the equivalent of a complete course credit for United States History at most colleges and universities throughout the country. The course proceeds chronologically beginning with Native American communities prior to the European exploration of North America and concludes with coverage of recent significant historical developments and current affairs. Students will be expected to complete extensive reading, research, and writing assignments as well as supplemental work.
including film reviews, examination of primary sources, and a summer assignment. The course also includes an additional class period each week (schedule permitting) for writing practice and enrichment. Grading primarily involves extensive essay writing, multiple-choice tests, and weekly quizzes. Class size is limited and completion of summer assignment is required to maintain enrollment.

Criteria for selection—
1. Grade of an A in 10th grade World Cultures course
2. Recommendation of 10th grade World Cultures teacher

ADVANCED PLACEMENT EUROPEAN HISTORY
(Full year course – 1 credit)

This college-level course is designed to expose a select group of senior students to ideas and approaches beyond the high school level. Upon completion of this course, students are eligible to take the Advanced Placement Examination in European History and receive college credit or placement; provided the student’s score meets the requirements established by the college or university the student attends. Beginning with the Renaissance, the course traces the major political, social, economic and cultural trends of Europe through the World War II era and beyond. In addition to objective examinations, emphasis is placed on developing writing skills through research and the use of primary and secondary sources. An in-depth research paper is a requirement for the course and must be satisfactorily completed before course credit is awarded. Students will also be required to make several oral presentations on selected topics throughout the year. These presentations will serve to demonstrate the student’s mastery of the subject material and to improve public speaking skills. Attendance during the student’s junior year will be taken into consideration during the recommendation process.

Criteria for selection—
1. 11th grade Social Studies teacher recommendation
2. Completion of the summer assignment

SOCIOLOGY
(Semester course - ½ credit)

Students in this course will explore how social groups and institutions affect individuals and other groups as well as how various social-environmental forces directly or indirectly affect human behavior. The sociological perspective, the attempt to understand and explain human interaction by examining behavior in its broader social context, focuses on how these various groups and institutions develop and function within the structure of a given society and how people are influenced by them. Sociologists also compare whole societies for the purpose of examining their similarities and differences. The instructor often uses the mediums of film and television to broadly examine social context. Some of the information and material is mature in nature and requires parental permission. Assessment is based primarily on quizzes and short essays. Class participation is also required as students are expected to study social interaction by taking part in it, an approach often taken by sociologists.
Criteria for selection-
  1. Completion of 9th, 10th, and 11th grade social studies courses

PSYCHOLOGY
(Semester course - ½ credit)

Students in this course will be offered a basic introduction to the field of psychology. Psychology is the scientific study of behavior and mental processes. This course will examine the methods scientists use to study both of these and their relationship to one another as well as the many theories that attempt to explain what is philosophically referred to as “the mind” (as distinct from the brain). The course compares and contrasts six prevalent contemporary perspectives in the field: biological, cognitive, humanistic, learning, psychoanalytic, and socio-cultural, and how each approaches the study of personality development, analysis, and treatment of disorders. Common general practices and popular trends currently employed by professionals in the field will also be explained. The course will begin with a review of the most historically influential and culturally significant theorists regarded as pioneers in the field with special attention afforded to the infamous contributions of Sigmund Freud. Students can expect to study in detail the symptoms and causes of the most prominent psychological disorders and dysfunctions. Students will also explore theories behind learning and conditioning, as well as personality. In addition, the course offers information and strategies for improving one’s personal psychological health and well-being. Grading is based upon multiple-choice tests as well as class work.

Criteria for selection-
  1. Completion of 9th, 10th, and 11th grade social studies courses

AMERICAN LAW
(Semester course - ½ credit)

American Law is designed to familiarize students with how the modern legal system is applied to their everyday lives. Students electing to take this course will be exposed to very practical and “real world” information as it pertains to criminal and civil law. The curriculum will focus on subjects such as crimes against people and property (larceny, murder, robbery, extortion, forgery, etc.) and subsequent defenses to those crimes. Students will be able to answer questions such as “What is the difference between First Degree Murder, Second Degree Murder, and Voluntary Manslaughter?”, “Why is the insanity defense difficult to use?”, and “Why may I need a lawyer and how do I select one?” The curriculum also delves in to civil law as well and investigates issues such as suing, how health, life, and automobile insurance protect us, signing of contracts, credit and identity theft, and negligence, just to name a few. Course work will include reading and writing assignments, case studies, projects, and film review to reinforce the topics at hand. This course provides a unique and practical opportunity to understand just how our system of law works and how it is intertwined with our lives as citizens every day.

Criteria for selection-
  1. Completion of 9th, 10th, and 11th grade social studies courses
ECONOMICS
(Semester course - ½ credit)

This course is designed to offer a practical approach to the study of Economics. Within the curriculum students will investigate micro and macro economics studies such as what economics is, how our economic choices affect supply and demand, how world economic systems work, how the American free enterprise system affects the lives of U.S. citizens, safety net programs, labor, wages, and unemployment, banking services, investing, and taxation. Students will also be exposed to material that relates to their personal financial well-being. At the end of the course students will be able to answer questions such as “Where does my tax money go and how do I complete my tax forms?” “How do my purchases impact supply and demand?” “How can labor laws and unions impact American business?” “How can I protect my financial future?” “What programs do my tax dollars provide for me?” “Why is investing money so important?” “How do I make decisions about college costs, credit, buying a car, and choosing a bank?” Course work will involve reading, class discussion, critical thinking utilization, and projects related to the study of Economics.

Criteria for selection-
1. Completion of 9th, 10th, and 11th grade social studies courses

CONTEMPORARY ISSUES
(Semester course – ½ credit)

Contemporary Issues introduces you to current discourse on a variety of topics concerning the world today. You will explore controversial events, debate contentious positions, and ultimately learn the context of recent issues and their potential impacts on the future. The course curriculum will focus on distinct units of study which include: Unit 1: Life in the Post 9/11 World and Unit 2 – The Fight for Rights. This class is designed to eliminate confusion and uncertainty surrounding these issues and allow students to form their own opinions on matters that affect their world. Students will evaluate the issues and propose solutions from a variety of viewpoints. The course curriculum will be fluid with the ability to adapt if needed to issues/events as they unfold.

Criteria for selection-
1. Elective course recommended for students in grades 10 through 12
TECHNOLOGY EDUCATION

IML 9 (Industrial Materials 9)  
(Semester course - ½ credit)

IML 9 is a semester long introductory to fabrication and design course. In this course students will design and fabricate a project using wood working equipment, CAD/CAM software, and a CNC router. Students will learn to apply the engineering design process to develop a project that meets specific design criteria. Student problem-solving and mechanical skills will be challenged through project design and fabrication.

Criteria for selection-  
1. Elective course with no prerequisite

MANUFACTURING, DESIGN AND PROTOTYPING  
(Semester course - ½ credit)

Manufacturing, Design and Prototyping is course designed to introduce students to manufacturing, design and entrepreneurship. In this course, students will work in groups to develop a product for sale and manufacture. Students will be responsible to develop a product that will meet local demand, is capable of being manufactured within school facilities, will be profitable and safe. Students will be responsible for developing a marketing plan and working prototype. In the follow up class, “Production, Materials and Manufacturing,” students will be given the opportunity to prepare the concept for manufacturing and set up the business to bring it to market.

Criteria for selection-  
1. Successful completion of any of the following: IML 9, TED 9, Toys for Tots, Introduction to Woodworking, Product Fabrication and Design, or instructor permission.

PRODUCTION, MATERIALS AND MANUFACTURING  
(Semester course - ½ credit)

Production, Materials and Manufacturing is the second part of “Manufacturing, Design and Prototyping.” It is a course designed to introduce students to the concepts of manufacturing, mass production and entrepreneurship. In this course, students will work in groups to set up a business (Brent Industries) and prepare the product developed in “Manufacturing, Design and Prototyping” for mass production. Students will be challenged to manufacture and complete the product during a one week production run. They will also need to implement a marketing plan and ultimately deliver the finished products to the consumer. Students will seek to create maximum efficiency of time and materials in the manufacturing process while delivering a quality product that delivers the consumer an exceptional value while still being profitable.
Criteria for selection-
1. Although this is a continuation of “Manufacturing, Design and Prototyping”, it is not a prerequisite.
2. Successful completion of any of the following: IML 9, TED 9, Toys for Tots, Introduction to Woodworking, Product Fabrication and Design, or instructor permission.

TOYS FOR TOTS MANUFACTURING
(Semester course - ½ credit)

This class is an engineering and manufacturing course that is designed to introduce practical engineering principles through research, design and manufacturing of a product for a charitable organization. This course will stress critical thinking and problem solving skills as they pertain to the engineering design process. The students will use CAD and CAM software programs to create the designs and program machinery. The course will challenge students to design and build jigs, fixtures and flow charts for the overall development of a toy design and manufacture process. The class will be operated like a business with individual and varying job responsibilities and assignments. It will be the responsibility of all students in the class to find and secure the funding for the supplies necessary to mass produce the toys. The class will culminate with delivery and distribution of the toys to “Toys for Tots”.

Criteria for selection-
1. Elective course with no prerequisite

INTRODUCTION TO WOODWORKING
(Semester course- ½ credit)

Introduction to woodworking is a materials based course designed to utilize woodworking projects to develop critical thinking skills through a combination of teacher and student led activities, assignments and projects. Students will learn how to safely, efficiently and effectively manipulate the provided supplies and equipment necessary to fabricate a wood based project that focuses on skill development, logical thinking and creative expression. Manual and computer automated equipment will be incorporated into the projects.

Criteria for selection-
1. Elective course with no prerequisite

PRODUCT FABRICATION AND DESIGN
(Semester course- ½ credit)

Product Fabrication and Design is a course designed to teach advanced engineering and fabrication concepts. Students will work in groups to complete engineering/design/fabrication challenges that can cross multiple disciplines. Students will be challenged to design and fabricate contraptions that provide solutions to everyday problems. Fabrication materials can include, wood, metal, plastic and other composites.
Criteria for selection-
  1. Elective course with no prerequisite

**BATTLE BOTS FOR COMPETITION**
(Full year course - 1 credit)

Battle Bots for Competition is a course designed to teach concepts of engineering, design, fabrication and manufacturing. Students will learn to design a remote controlled robot from the ground up that is capable of meeting the demands and rigors of destructive battle. Students will develop logical thinking and practical engineering skills while solving the problems and overcoming the obstacles standing between them and the competition day battle arena. Some of the many obstacles to overcome include: chassis design, component selection, material analysis and selection, fabrication methods, weight requirements, part tolerance, electrical design, safety plan development, programming, planning for on-site repairs, testing, prototyping, CAD/CAM/CNC, and paperwork documentation. This course will challenge all students to improve critical and logical thinking skills while preparing them for careers in high technology, engineering, manufacturing and fabrication.

Criteria for selection-
  1. Elective course with no prerequisite

**TED 9 (Intro to Technology Engineering & Design 9)**
(Semester course - ½ credit)

This semester course for ninth grade students will provide the foundation needed for the (Advanced TED) engineering courses later in high school. Students will begin to develop orthographic drafting skills and utilize industry standard 3D modeling CAD programs like AutoCAD and Inventor to start developing problem solving skills by using the engineering design process. By the conclusion of the course students will use manufacturing machinery and tooling to produce wooden toys. Students will also use CNC and CAM technology to produce and race CO2 powered race cars.

Criteria for selection-
  1. Elective course with no prerequisite

**TED MECHANICAL (Technology Engineering & Design: Applied Mechanical Engineering)**
(Semester course – ½ credit)

This course will focus upon using problem solving skills and critical thinking techniques to apply engineering principles to design, build, and compete mechanical machines in the “Chain Reaction Contraption” competition at the Carnegie Science Center where large monetary prizes can be obtained. In addition to students competing in the Chain Reaction Contraption competition they will also learn how to use industry standard 3D modeling CAD programs like AutoCAD and Inventor to create a background needed for future TED courses.
Criteria for selection-
1. Elective course with no prerequisite (Offered Fall semester only)

TED CIVIL (Technology Engineering & Design: Applied Civil Engineering)  
(Semester course – ½ credit)

This course will focus upon using problem solving skills and critical thinking techniques to apply engineering principles to design and build model bridges for structural strength analysis. In addition students will be required to design architectural schematics using industry standard CAD programs for testing and building structures.

Criteria for selection-
1. Elective course with no prerequisite (Offered Spring semester only)

TED ELECTRICAL (Technology Engineering & Design: Applied Electrical Engineering)  
(Semester course – ½ credit)

This course will focus upon using learned techniques and strategies from previous TED courses of study. Students will compete in VEX robotic based activities/competitions within the classroom by producing and building their own robots. Students will have the opportunity to compete regionally against other schools in robot design and have a chance to progress into state and national finals if they produce winning robots.

Criteria for selection-
1. Successful completion of at least one TED course (Offered Fall semester only)

TED INDUSTRIAL (Technology Engineering and Design: Applied Industrial Engineering)  
(Semester Course – ½ credit)

This course will focus upon using learned techniques and strategies from previous TED courses of study. Students will be required to use industry standard CAD software to create models and prototypes that can be manufactured by using CNC machines, 3D printers, and vinyl cutters. Students will produce key chains, stickers, and engraved LED lighted plaques in class. Additional student chosen projects will be required as the course progresses and skills are developed.

Criteria for selection-
1. Successful completion of at least one TED course (Offered Spring semester only)

TED HONORS (Technology Engineering and Design: Honors)  
(Full year course - 1 credit)

This is the capstone engineering course that is designed to allow students to compete in various engineering based competitions like F1 in Schools, STEM based Competitions, Chain Reaction Contraption, TSA (Technology Student Association) competitions or any approved area of study. Students will be required to work in groups and individually to complete any work load required
for the competitions. In addition, students will have the opportunity to cross curricular paths using STEAM (Science, Technology, Engineering, Art and Math) to complete tasks using the engineering design process.

Criteria for selection-
   1. Successful completion of at least two TED courses
   2. Teacher approval based upon grades and performance in TED classes
STEEL CENTER FOR CAREER AND TECHNICAL EDUCATION

(Full year program – 3 credits)

Students who attend Steel Center can gain a labor market advantage through active learning that meets the expectations of 21st century employers and colleges. Each program will guide students through rigorous career oriented practical activities reinforced through core academic instruction. Students’ employability will be further promoted by their opportunity to gain Industry Standard Certifications required by local employers. Students also have the opportunity to join a Career and Technical Student Organization where they will learn leadership and citizenship principles. For more information about the opportunities offered at Steel Center, please visit www.steelcentertech.com.

Criteria for selection-
1. Must meet specific attendance and academic requirements
2. Recommended for students in grades 10 through 12

PA DEPARTMENT OF EDUCATION PROGRAMS OF STUDY

In accordance with the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Act), all Postsecondary Institutions receiving funds under the Act are required to award college-level credit or equivalent clock hours to a matriculated student and apply that credit toward the completion of the approved Pennsylvania Department of Education (PDE) Program of Study, leading to an industry-recognized credential or certificate at the postsecondary level, or an associate or baccalaureate degree. The purpose of this Agreement is to ensure that students make the transition from a school entity (Steel Center) to another school entity, college or university or a business/industry without experiencing delays in or duplication of learning. This Agreement sets forth the terms and conditions for the awarding of college-level credit or equivalent clock hours to students who complete the approved PDE Program of Study at a Secondary School so that those students can seamlessly continue their education in a related Program of Study at a Postsecondary Institution. This agreement outlines the general conditions between secondary and postsecondary institutions.
STEEL CENTER COURSE OFFERINGS

**Advertising & Design (Program of Study)**
Grades 10-12
*CIP Code: 50.0402, 3 credits/year.*

**Industry Certifications Available:** Adobe Certified Associate CS6 Photoshop, InDesign, Illustrator, NOCTI Skills Testing Certification

An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

**Automotive Mechanics (Program of Study)**
Grades 10-12
*CIP Code: 47.0604, 3 credits/year.*

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

**Baking/Pastry Chef (Program of Study)**
Grades 10-12
*CIP Code: 12.0501, 3 credits/year.*

**Industry Certifications Available:** National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

Specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, for consumption in a commercial food service establishment or for special functions. Instruction includes making, freezing and handling of bake products; decorating; counter display; and packaging of merchandise. This is a comprehensive program to prepare individuals for employment in a variety of occupations in the baking industry.
Building Trades *(Program of Study)*  
*Grades 10-12*  
*CIP Code: 46.0401, 3 credits/year.*

**Industry Certifications Available:** NOCTI Skills Testing Certification, Pennsylvania Builder’s Association Certification (PBA), OSHA-10 Hour Training CareerSafe

An instructional program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to serve a variety of structures including commercial and industrial buildings and mobile homes. Instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping.

Carpentry *(Program of Study)*  
*Grades 10-12*  
*CIP Code: 46.0201, 3 credits/year.*

**Industry Certifications Available:** NOCTI Skills Testing Certification, Pennsylvania Builder’s Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

Collision Repair and Refinishing *(Program of Study)*  
*Grades 10-12*  
*CIP Code: 47.0603, 3 credits/year.*

**Industry Certifications Available:** Collision Safety & Pollution Prevention (S/P2), I-CAR Welding, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.
**Computer Information Systems** *(Program of Study)*  
Grades 10-12  
*CIP Code: 52.1201, 3 credits/year.*

**Industry Certifications Available:** Microsoft Certified Professional, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications, manage data systems and related mathematical statistics for analysis and forecasting of business data, process and retrieve business information, and prepare and interpret process and data models. Students will create a relational database, receive instruction in a variety of computer programming languages including writing, testing and debugging code; writing related system user documentation; demonstrating an understanding of core computer concepts to include the internet and the basic functions of business desktop applications; and analyzing common hardware, software and network processes. Students will receive instruction in business ethics and law, economics, office procedures and communications. Students will learn office safety, computer fundamentals, database administration and computer maintenance/troubleshooting.

**Cosmetology** *(Tech Prep Articulation Agreement with Douglas Education Center)*  
Grades 10-12  
*CIP Code: 12.0401, 3 credits/year.*

**Industry Certifications Available:** Cosmetology License, Manicurist, Esthetician, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

**Culinary Arts** *(Program of Study)*  
Grades 10-12  
*CIP Code: 12.0508, 3 credits/year.*

**Industry Certifications Available:** National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.
Electrical Construction (Program of Study) Grades 10-12
CIP Code: 46.0399, 3 credit/year.

Industry Certifications Available: NOCTI Skills Testing Certification, Pennsylvania Builder’s Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Health Assistants (Program of Study) Grades 10-12
CIP Code: 51.0899, 3 credits/year.


A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Heating, Air Conditioning & Refrigeration (Program of Study) Grades 10-12
CIP Code: 47.0201, 3 credits/year.

Industry Certifications Available: EPA 608 Technician Certification, NOCTI Skills Testing Certification, Pennsylvania Builder’s Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.
Medium/Heavy Truck (Program of Study) Grades 10-12
CIP Code: 47.0613, 3 credits/year.


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

Protective Service (Program of Study) Grades 10-12
CIP Code: 43.9999, 3 credits/year.


An instructional program that prepares individuals to apply technical knowledge and skills required for performing entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

Welding (Program of Study) Grades 10-12
CIP Code: 48.0508, 3 credits/year.


An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.
HIGH SCHOOL CLASS SCHEDULE

7:30 a.m.  Students permitted in building
7:55 a.m.  Warning tone
8:00 – 8:43 a.m.  First period
8:47 – 9:29 a.m.  Second period
9:33 – 10:15 a.m.  Third period
10:20 – 11:06 a.m.  Fourth period
11:10 – 11:52 a.m.  Fifth period
11:56 – 1:08 p.m.  Sixth period
11:52-12:22    A Lunch
12:26 - 1:08    Class
11:56 – 12:38    Class
12:38 – 1:08    B Lunch
1:13 – 1:57 p.m.  Seventh period
2:01 – 2:45 p.m.  Eighth period
Brentwood High School
Grades 9, 10, 11, and 12

Mr. Jason Olexa
High School Principal

Mrs. Linda Capozzoli
High School Counselor

The Brentwood Borough School District is an equal opportunity Educational institution and will not discriminate on the basis of race, color, national origin, sex, or disability in its activities, programs or employment practices as required by Title VI, Title IX, and Section 504.