READING INTERMEDIATE HIGH SCHOOL
READING SENIOR HIGH SCHOOL
2016-2017 Course of Studies
For Graduating Classes 2017-2019

Reading School District
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It is the policy of the Reading School District not to discriminate on the basis of sex, handicap, race, color, or national origin in its educational and vocational programs, activities or employment as required by Title IX, Section 504, and Title VI. The Reading School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. Inquiries regarding your rights and grievance procedures should be directed to Dr. Maura Roberts at the Reading School District Administration Building, 800 Washington Street, Reading, PA 15602, Telephone 484-258-7041, Ext. 31212.
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SCHEDULING GUIDELINES

The graduation requirements for Reading High School are in compliance with the Pennsylvania State Board of Education regulations and include credits earned in grades 9 through 12.

ADDITIONAL REQUIREMENTS FOR GRADUATION:

In addition to meeting credit requirements, current high school students must score advanced or proficient on the Literature and Algebra I Keystone Exam. Students who are unable to score at a proficient level after the allowable number of attempts will be permitted to complete a project-based alternative to demonstrate his/her knowledge in the subject matter.

I. GRADUATION REQUIREMENTS INCLUDE MINIMUMS IN THE FOLLOWING AREAS

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>CREDITS NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Studies</td>
<td>3.00</td>
</tr>
<tr>
<td>English</td>
<td>4.00</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4.00</td>
</tr>
<tr>
<td>Science</td>
<td>3.00</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.50</td>
</tr>
<tr>
<td>Wellness</td>
<td>.50</td>
</tr>
<tr>
<td>Electives</td>
<td>6.50</td>
</tr>
<tr>
<td>Computer Elective</td>
<td>.50</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>23.00</strong></td>
</tr>
</tbody>
</table>

II. PROMOTION AND GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>FOR PROMOTION TO</th>
<th>CREDITS NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 10</td>
<td>5.00</td>
</tr>
<tr>
<td>Grade 11</td>
<td>11.00</td>
</tr>
<tr>
<td>Grade 12</td>
<td>17.00</td>
</tr>
<tr>
<td><strong>Graduation</strong></td>
<td><strong>23.00</strong></td>
</tr>
</tbody>
</table>

III. SCHEDULE CHANGES

Schedule Changes will be permitted as follows:

1. With written parental/guardian permission until the end of April.
2. From May 1 to July 31 for Career Goal changes
3. After July 31 only the following changes will be given consideration:
   a. Request by student’s teacher for change in the level of difficulty of a course
   b. Scheduling error - Example: Student completed English course in summer school but the student’s schedule was not adjusted
   c. Administrative directed changes

IV. SPECIAL NOTE - COURSE(S) MAY BE DROPPED DUE TO LOW ENROLLMENT. YOU WILL RECEIVE WRITTEN NOTIFICATION IF ONE OR MORE OF YOUR SELECTED COURSES ARE DROPPED. YOU WILL BE GIVEN THE OPPORTUNITY TO SELECT ANOTHER COURSE OR COURSES.

V. COURSE LEVELS

1. Core - Courses designated core will cover the eligible content of the subject area with the goal of enabling students to achieve their highest potential. Each course will give students the requisite skills and information for acceptable performance in the subject area. Instruction will be differentiated so that each student will be taught with materials appropriate to his or her level of expertise, encompassing all eligible content. Upon completion of the core curricula, students will be prepared to pursue a variety of paths including but not limited to college, technical schools, the military, the workplace, and apprenticeships. Students can move into honors courses by demonstrating academic skills that will enable them to be successful at that level. Students moving into honors courses must receive teacher approval during the scheduling process. Various tutoring opportunities are available for students desiring to improve their academic skills.

2. Honors - Courses designated honors will exceed the eligible content of the subject area. These classes will require projects and summer work beyond the scope of ordinary homework. Students who elect honors classes are those who plan to begin their college careers while still in high school through Advanced Placement. The pace of these classes will be accelerated so that content covered above the eligible content for the state assessment program can be covered.

3. Advanced/Advanced Placement - Courses designated AP are college-level classes taught in a high school setting. The classes must cover the same skills and content that could be found in an introductory college class. Outside projects and research are an integral part of these courses. Students enrolled in AP courses MUST take AP exams for those courses and may receive college credit. Students who wish to embark upon a challenging and intense academic program should enroll in AP classes.
VI. VALEDICTORIAN POLICY OF READING HIGH SCHOOL

The valedictorian of the graduating class at Reading High School is determined by the student with the highest GPA and rank. If more than one person has met the criteria, they shall be considered co-valedictorians of the graduating senior class. Questions concerning the graduating senior valedictorian should be directed to the Principal of Reading High School.

VII. DIPLOMA STATEMENT

A diploma from Reading High School signifies that the student has successfully fulfilled all graduation requirements. It does not in itself ensure admission to college or other institutions of advanced study. A high school transcript is an official statement of academic achievements.

PROGRAM OF STUDIES

Our curriculum is designed to offer course choices that permit students to obtain the most comprehensive program available. It is to the student's advantage to schedule a variety of courses in order to be prepared to enter a four-year college, a trade/technical school, or a community college.

SAMPLE SCHEDULES

<table>
<thead>
<tr>
<th>NINTH GRADE</th>
<th>TENTH GRADE</th>
<th>ELEVENTH GRADE</th>
<th>TWELFTH GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Social Studies</td>
<td>Social Studies</td>
<td>Math</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Lunch</td>
</tr>
<tr>
<td>Math</td>
<td>Math</td>
<td>Lunch</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Lunch</td>
<td>Lunch</td>
<td>Physical Education/Wellness</td>
<td>Electives*</td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer/Career Awareness</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives (2)*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Based on their academic needs, some students may receive a reading course which will reduce the number of electives in their schedules.

KEY TO UNDERSTANDING COURSE CODES

M – indicates courses for English Language Learners
U – indicates a weighted course

Credit Key

1.27 credit classes meet 7 periods a cycle for the year (one period of the 7 is a lab)
1 credit classes meet 6 periods a cycle for the year
.5 credit classes meet 3 periods a cycle for the year OR 6 periods a cycle for the semester
.33 credit classes meet 2 periods a cycle for the year OR 4 periods a cycle for the semester
.25 credit classes meet 3 periods a cycle for the semester
WEIGHTING SYSTEM

<table>
<thead>
<tr>
<th>LEVEL %</th>
<th>GRADE</th>
<th>CORE</th>
<th>HONORS</th>
<th>ADVANCED/AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-100</td>
<td>A+</td>
<td>5.33</td>
<td>6.33</td>
<td>7.33</td>
</tr>
<tr>
<td>93-96</td>
<td>A</td>
<td>5.00</td>
<td>6.00</td>
<td>7.00</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>4.67</td>
<td>5.67</td>
<td>6.67</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
<td>4.33</td>
<td>5.33</td>
<td>6.33</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
<td>4.00</td>
<td>5.00</td>
<td>6.00</td>
</tr>
<tr>
<td>80-82</td>
<td>B-</td>
<td>3.67</td>
<td>4.67</td>
<td>5.67</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
<td>3.33</td>
<td>4.33</td>
<td>5.33</td>
</tr>
<tr>
<td>73-76</td>
<td>C</td>
<td>3.00</td>
<td>4.00</td>
<td>5.00</td>
</tr>
<tr>
<td>70-72</td>
<td>C-</td>
<td>2.67</td>
<td>3.67</td>
<td>4.67</td>
</tr>
<tr>
<td>67-69</td>
<td>D+</td>
<td>2.33</td>
<td>3.33</td>
<td>4.33</td>
</tr>
<tr>
<td>63-66</td>
<td>D</td>
<td>2.00</td>
<td>3.00</td>
<td>4.00</td>
</tr>
<tr>
<td>60-62</td>
<td>D-</td>
<td>1.67</td>
<td>2.67</td>
<td>3.67</td>
</tr>
<tr>
<td>50-59</td>
<td>F1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>49-0</td>
<td>F2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

READING HIGH SCHOOL GRADING SYSTEM

Class Rank

Major subject courses, English, Social Studies, Mathematics, Science, and World Language, are included in the class rank. When computing class rank, courses are “weighted” based on levels in an effort to provide a more accurate record of a student’s scholastic achievement.

Grades

A letter grade system is used. The letter grades (A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, I, F1, F2, P) represent certain characteristics described below. Grades are a compilation of student effort. Quarterly grades reflect how well the student has mastered the material. The final grade evaluates the student’s overall mastery of the subject. Teachers evaluate students on expected goals in each discipline. They use evaluation methods outlined in each respective planned course.

Honor/Merit Roll

Students will be awarded honor roll recognition if they achieve at least a 3.5 quality point average with no grade below a C. Students with a 3.0 to 3.4 quality point average will be awarded Merit Roll recognition. All subjects are included in Honor/Merit Roll. Quality point average is based on the following:

\[
\begin{align*}
A+ & : 4.33 \text{ Quality Points} \\
A & : 4.00 \text{ Quality Points} \\
A- & : 3.67 \text{ Quality Points} \\
B+ & : 3.33 \text{ Quality Points} \\
B & : 3.00 \text{ Quality Points} \\
B- & : 2.67 \text{ Quality Points} \\
C+ & : 2.33 \text{ Quality Points} \\
C & : 2.00 \text{ Quality Points} \\
C- & : 1.67 \text{ Quality Points} \\
D+ & : 1.33 \text{ Quality Points} \\
D & : 1.00 \text{ Quality Points} \\
D- & : .67 \text{ Quality Points} \\
F1 & : .00 \text{ Quality Points} \\
F2 & : .00 \text{ Quality Points}
\end{align*}
\]

A+/A- = Excellent

\begin{enumerate}
  \item This grade represents superior work and is distinctly an honor grade for each course level.
  \item The excellent student has exhibited superior achievement with respect to almost all objectives.
  \item The excellent student displays exceptional effort and works willingly, effectively, and independently.
\end{enumerate}
B+/B/B- = Very Good
   a. This grade represents above average quality achievements.
   b. The good student has exhibited proficiency with respect to course objectives.
   c. The good student is industrious and cooperative.

C+/C/C- = Average
   a. This grade represents acceptable quality achievements.
   b. The average student has exhibited acceptable performance with respect to course objectives.
   c. The average student is cooperative and follows directions; yet extra effort and improvement are needed for a more complete mastery of the objectives.

D+/D/D- = Below Average
   a. This grade represents minimum passing achievements.
   b. The below-average student has not exhibited acceptable performance with respect to course objectives.
   c. This achievement level indicates that there is a great need for improvement in areas such as daily preparation, dedication, cooperation, and attendance.

F1/F2 - Failure
   a. The failing student has not achieved mastery with respect to essential course objectives.
   b. Failure to complete assignments, frequent lateness or absence, and demonstrated indifference are major contributors to student failure. This provision may apply to quarter, semester or final course grades. Blatant refusals to attempt or complete a significant number of course requirements may, in itself, justify a final course grade of an F1 or F2. Such failures may occur despite the Quality Point Average attained for completed work. Failures assigned for this reason must have the approval of the Building Principal.
   c. It may be noted that generally the student does not fail because of lack of ability, but rather because of the unwillingness to attend school and to fulfill the minimum requirements for attaining a passing grade.
   d. Students who receive an F1 in a subject will be permitted to take that subject in summer school. Students who receive an F2 WILL NOT BE PERMITTED to take that subject in summer school and/or enroll in credit recovery.

Grading Procedure
"Weighting" for Establishing Quarter Grades:
   Class Work, Class Participation, Independent Practice 20%
   Major Tests/Quizzes 30%
   Authentic Assessments 40%
   Homework Notebook 10%

Appeals Procedure
Should any concerns arise about grades derived in compliance with the grading policy, the following appeals procedures are referenced:

   a. Staff  School Board Policies 326, 426, and 526
   b. Parents  School Board Policy 905
   c. Students  In accordance with School Board Policy 219, a student will use his/her respective school counselor to mediate the student's concern. If the concern is not resolved satisfactorily, the school counselor will help the student pursue the concern at each subsequent level.
# PHYSICAL EDUCATION and WELLNESS

## Introduction

The Reading School District requires that students obtain 1.50 credits in Physical Education and .5 credits in Wellness Education from grades 9 through 12.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>035 Physical Education</td>
<td>6 pd/cyl</td>
</tr>
<tr>
<td>038 Physical Education - Lab Students</td>
<td>2 pd/cyl</td>
</tr>
</tbody>
</table>

Physical Education is required of all students. Students will participate in individual and team sports, aquatics, games, and aerobics leading up to lifetime fitness.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>034S Wellness</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grade 10</strong></td>
<td></td>
</tr>
<tr>
<td>Teaches students about the Making Proud Choices curriculum which addresses students' awareness of sexually transmitted diseases, HIV, AIDS and pregnancy prevention. This course also teaches students to recognize and practice wellness behaviors like goal setting to achieve and maintain a better quality of life and optimum wellness. Course content includes: Making Proud Choices, communicable diseases, human sexuality and reproduction, growth and development, alcohol, tobacco, drugs, nutrition, and weight control.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>039 Walking</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grade 10-12 (Alternative to Phys Ed)</strong></td>
<td></td>
</tr>
<tr>
<td>Provides cardio-vascular exercise in a low-impact environment. Students will learn to monitor their heart rate, time their laps, set goals for improved physical fitness, and learn the benefits of a walking regimen.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>043 Swimming</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grade 10-12 (Alternative to Phys Ed)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites:</strong> grade of &quot;C&quot; or higher in Phys Ed</td>
<td></td>
</tr>
<tr>
<td>Students will learn safety issues when they are in, on, or around water. Students will also learn the basic aquatic skills of swimming (front crawl, back crawl, elementary backstroke, breaststroke, sidestroke, and butterfly).</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>040 Dance Aerobics</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grades 10-12 (Alternative to Phys Ed)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites:</strong> grade of &quot;C&quot; or higher in Phys Ed</td>
<td></td>
</tr>
<tr>
<td>An introductory level course open to all students in grades 11-12, who have an interest in dance and may have demonstrated an aptitude in dance, but possess little or no formal training. This class will incorporate fundamental techniques of ballet, modern, jazz, and theatrical dance, along with elements of performance and choreography.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>044 Personal Fitness</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grades 10-12 (Alternative to Phys Ed)</strong></td>
<td></td>
</tr>
<tr>
<td>For students who are interested in getting into or maintaining a healthy and physically active lifestyle. The class is structured and is focused on cardiovascular endurance, strength training, aquatic fitness, core strength and flexibility. There also will be basic weight management components taught throughout the course.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>045W Weight Training</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grades 10-12 (Alternative to Phys Ed)</strong></td>
<td></td>
</tr>
<tr>
<td>For students/athletes who are interested in improving their strength and speed. The class is very structured with an emphasis on flexibility, plyometrics, and core lifts (Bench Press, Power Cleans, Squats, Straight Leg, and Dead Lifts.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>048 Lifetime Fitness</td>
<td>.50 credit</td>
</tr>
<tr>
<td><strong>Grades 10-12</strong></td>
<td></td>
</tr>
<tr>
<td>Designed to give students activities that they can do to stay fit for a lifetime. Activities offered will be walking/hiking, outdoor games, golf, bowling and Frisbee games. Students will be utilizing the park area around the school and should be prepared for outdoor activities.</td>
<td></td>
</tr>
</tbody>
</table>
ENGLISH AND READING

Introduction

The Reading School District English Department maintains a curriculum that provides opportunities for students to develop their writing, reading, speaking, and listening skills. The program is a sequential one which encourages skill development and critical thinking. Students read a variety of texts each year in order to have a literary foundation on which to base their writing and thinking. The program includes the required courses grades 9, 10, 11, and 12. Elective courses offer students the opportunity to explore an area of interest and/or skill development. Learning requisite skills in communication and thinking, students will prepare themselves for life after high school. Four English credits are required for graduation from Reading High School.

GRADE 9

103 Ninth Grade Language Arts
1 credit
Students will develop reading and writing skills to achieve at a level of proficiency on the Keystone Exam. Reading a variety of texts to increase comprehension and interpretation will be stressed. All students will practice higher level thinking skills as they construct meaning from text. Inferential thinking, comparison, analysis, and evaluation will be stressed. A variety of strategies will be used to help students increase their vocabulary. Speaking and listening skills will be taught through formal and informal discussion including group work and pairing. Students will write narrative, informational, and persuasive pieces with attention to style, focus, content, organization, and the conventions of the language. Research skills using traditional and emerging methods will be taught. The texts used in ninth grade will be selected for their appropriateness and will come from a wide variety of sources, emphasizing different genres.

105 Honors Ninth Grade Language Arts
1 credit
Students will engage in all the activities described for the Ninth Grade Language Arts course. Additionally, students will be expected to complete summer assignments and projects beyond the scope of regular homework. The class will move at an accelerated pace, with the expectation that students who qualify for this level of class will have an ability to produce high quality writing pieces.

106 Advanced Ninth Grade Language Arts
1 credit
Students will engage in all the activities described for the Ninth Grade Language Arts course. The class will move at an accelerated pace, reflecting the desire of these students to be participating in college-level work during their junior year. Students who are enrolled in this class will be able and have the desire to produce quality work to demonstrate mastery of the lessons taught. Completion of summer reading assignments is a course requirement for Advanced Ninth Grade Language Arts.

GRADE 10

123 Tenth Grade Language Arts
1 credit
Students will develop reading and writing skills to achieve at a level of proficiency on the Keystone Exam. Reading a variety of texts to increase comprehension and interpretation will be stressed. All students will practice higher level thinking skills as they construct meaning from text. Inferential thinking, comparison, analysis, and evaluation will be stressed. A variety of strategies will be used to help students increase their vocabulary. Speaking and listening skills will be taught through formal and informal discussion including group work and pairing. Students will write narrative, informational, and persuasive pieces with attention to style, focus, content, organization, and the conventions of the language. Research skills using traditional and emerging methods will be taught. The texts used in the class will come from a wide variety of sources, emphasizing different genres, chosen for their appropriateness for tenth grade. Understanding different genres and developing research expertise are particularly emphasized during this academic year. Upon completion of this course, students will take the Literature Keystone Exam.

125 Honors Tenth Grade Language Arts
1 credit
*Prerequisite: Honors 9th Grade Language Arts or teacher recommendation
Students will engage in all the activities described for the Tenth Grade Language Arts class. Additionally, students will be expected to complete projects beyond the scope of regular homework. Research skills will focus on producing a traditional academic paper in order to introduce students to college literary writing. Students will be challenged at their level of competence by texts which reflect both the classic and emerging literary canon. Upon completion of this course, students will take the Literature Keystone Exam.
129 Advanced Tenth Grade Language Arts

*Prerequisite: Advanced 9th Grade Language Arts or teacher recommendation

Students will engage in all the activities described for the Tenth Grade Language Arts class. The class will move at an accelerated pace, reflecting the desire of these students to be participating in college-level work during their senior year. Students will complete a formal research paper, developing the expertise necessary for college writing. Students enrolled in this class will be expected to produce quality, high-level work to demonstrate mastery. Completion of summer reading assignments is a course requirement for Advanced Tenth Grade Language Arts. Upon completion of this course, students will take the Literature Keystone Exam.

GRADE 11

333 American Literature

1 credit

Students will develop reading and writing skills. Students will read a variety of texts to increase comprehension and interpretation of the literature will be stressed. All students will practice higher level thinking skills as they construct meaning from text, focusing on inferences, thinking, comparison, analysis, and evaluation. A variety of strategies will be used to help students increase their vocabulary. Speaking and listening skills will be taught through formal and informal discussion, including group work and pairing. Students will write narrative, informational, and persuasive pieces with attention to style, focus, content, organization, and the conventions of the language. The texts used in the class will come from a wide variety of sources, emphasizing different genres, chosen for their appropriateness for eleventh grade. Because the PSAT, and possibly the SAT and Keystone Exams are administered to juniors, special emphasis will be given to both the necessary skills and appropriate strategies for the tests. This course is taught as a survey of American literature, beginning with the literature of the Native Americans, and continuing through the literature of the Moderns. The texts for eleventh grade are drawn from a variety of American literary movements and authors, using both traditional and diverse sources, and including both fiction and non-fiction texts. Understanding the evolution and development of America and its literature from many perspectives and genres is the focus of literary studies during this academic year.

335 Honors American Literature

*Prerequisite: Honors 10th Grade Language Arts or teacher recommendation

Students will engage in all the activities described for the American Literature course. Students who elect this class will most certainly be considering college, so special emphasis will be given to preparation for college admissions tests, such as the SAT and the ACT. Students will continue developing their skills, writing critical papers on a variety of texts. Their reading will include works from the American literature canon as well as works by emerging American authors. Completion of summer reading assignments is a course requirement for Honors American Literature.

339 Advanced Placement Language & Composition

*Prerequisite: Advanced 10th Grade Language Arts or teacher recommendation

1 credit

Incorporates American Literature into the framework of the curricular requirements established and approved by the College Board for AP English Language and Composition and the local Board of Directors. This class is organized as a chronological study of American literature. According to the College Board’s AP English Language and Composition Course Description, the reading selections and writing assignments are designed to aid “students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes.” As the study of American literature is a component of eleventh grade English, varied historical documents will provide a framework for our curriculum, and our study of American literature, particularly during the first semester, works in concert with these goals because the vast majority of the selections are nonfiction.

Additionally, throughout this course, writing will be taught using a process approach. Students will demonstrate their writing skills through journals, timed writings, and multi-draft essays. Revision and editing will be taught via modeling and grammar instruction. Formal essays will undergo multiple drafts, with all steps of the process and drafts due on specified due dates. Peer revision, conferencing, and teacher feedback will occur before essays are submitted in final draft form. Structure, thesis, use of transitions, and proper Modern Language Association methods of citation will be taught and practiced.

In this course, students prepare for the AP English Language and Composition Exam and may be granted advanced placement, college credit, or both as a result of satisfactory performance. Completion of summer reading assignments is a course requirement for AP Language and Composition. All students electing to take AP Language and Composition are required to take the AP Exam in May.
GRADE 12

143 World Literature 1 credit
Students will develop reading and writing skills to achieve at a level of proficiency on the Keystone Exam. Reading a variety of texts to increase comprehension and interpretation will be stressed. All students will practice higher level thinking skills as they construct meaning from text. Inferential thinking, comparison, analysis, and evaluation will be stressed. A variety of strategies will be used to help students increase their vocabulary. Speaking and listening skills will be taught through formal and informal discussion, including group work and pairing. Students will write narrative, informational, and persuasive pieces with attention to style, focus, content, organization, and the conventions of language. Research skills using traditional and emerging methods will be taught. The texts used in the class will be appropriate to twelfth grade students and drawn from both classic and modern world literature, so that students develop insight into other cultures of the world and perspective on the society in which they live. Students will complete research projects and focus on skills which will lead toward their success in the world after graduation.

145 Honors World Literature 1 credit
Students will engage in all the activities described for the World Literature course. Additionally, students will be expected to complete research projects and critical essays appropriate for students definitely planning to enroll in college in the fall. Students will be introduced to a variety of literary critical methodologies and world texts, preparing them for success in college freshman English class.

149 Advanced Placement Literature and Composition 1 credit
"Prerequisites: Advanced Placement Language and Composition or teacher recommendation"
Incorporates literature and composition into the framework of the curricular requirements established and approved by the College Board for AP English Language and Composition and the local Board of Directors. The AP English Literature and Composition course builds on the knowledge gained in the Language and Composition course, shifting the focus from analyzing the rhetorical strategies in nonfiction to an emphasis on the careful reading and critical analysis of imaginative literature. According to the College Board's AP English Literature and Composition course description, students are taught to "read actively" and make "careful observations of textual detail, establish connections among their observations, and draw from those connections a series of inferences leading to an interpretive conclusion about the meaning and value of a piece of writing." In doing so, students will consider the overall form, theme, and style of a work as well as "smaller-scale elements such as quotefigurative language, imagery, symbolism and tone." As with other college level literature courses, writing will be an instrumental learning tool, aiding students in their understanding and appreciation of literature. Students can expect to submit a formal piece of writing every two to three weeks. The emphasis will be on critical and response essays: however, there will be a few creative and research based papers as well. Students will also practice timed writings in order to prepare for the essay portion of the AP Exam. Additionally, the course requires a creative project and student presentation each quarter. Completion of summer reading assignments is a course requirement for AP Literature and Composition. All students electing to take AP Language and Composition are required to take the AP exam in May.

ENGLISH ELECTIVES

150 Advanced Placement Seminar 1 credit
Grades 11-12
AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

151 Advanced Placement Research 3 credit
Grade 12
AP Research is designed to allow you to dive into an academic topic, problem, or issue of individual interest. You will further develop the skills you acquired in the AP Seminar course by understanding research methods: employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic paper of 4,000–5,000 words; and a presentation with an oral defense during which you will answer questions about your academic paper.

184 Introduction to Poetry .5 credit
Grades 10-12
Designed to enhance the ability of students to appreciate and interpret poetry. The course will introduce students to poetry from the past to the present with an emphasis on the fundamental elements of poetry. Students will learn to analyze various types of poetry, recite and make connections with poems, and write their own verse. Students interested in participating in the Poetry Out Loud school competition are encouraged to take this elective.
194 Introduction to Publications/Desktop Publishing
Grades 9-12
Students will learn the fundamentals necessary for participating in the yearbook or journalism electives in grades 11-12. Students will be introduced to journalistic writing, photojournalism, and basic reporting skills. Students also will become familiar with the desktop publishing programs used to produce the school’s yearbook and newspaper.

195A Yearbook I
Grades 11-12
*Special Application Required - Writing Sample Required
Provides numerous opportunities for students to gain valuable writing, interviewing, and reporting skills, as well as instruction in photo journalism. Additionally, students gain experience in advertising, graphic design, and business skills.

195B Yearbook II
Grades 11-12
*Special Application Required - Writing Sample Required
Provides numerous opportunities for students to gain valuable writing, interviewing, and reporting skills, as well as instruction in photo journalism. Additionally, students gain experience in advertising, graphic design, and business skills.

196A Journalism I
Grades 11-12
*Special Application Required - Writing Sample Required
Designed for the student who wants instruction and experience in journalistic writing for newspaper publication. Students study the history of journalism, its role in American society, and how to report effectively. Members of the class also create and publish Red and Black, the school newspaper. Students who are interested in modern news media are encouraged to take this course.

196B Journalism II
Grades 11-12
*Special Application Required - Writing Sample Required
Designed for the student who wants instruction and experience in journalistic writing for newspaper publication. Students study the history of journalism, its role in American society, and how to report effectively. Members of the class also create and publish Red and Black, the school newspaper. Students who are interested in modern news media are encouraged to take this course.

197 Theater I
Grades 9-12
Designed to teach the elements of acting and play production. Students will perform improvisation, monologues, write short pieces for performance, and direct and act in scenes and productions throughout the year. Daily performance is required.

197A Theater II
Grades 10-12
*Prerequisite: Theater I
Delves deeper into the advanced elements of acting and play production. Students will be expected to perform improvisation, perform monologues, write pieces for performance, and create, direct, and act in scenes and productions throughout the year. Daily performance is required.

197B Theater III
Grades 11-12
*Prerequisite: Theater II
Further increases the competency of students who took Theater I and Theater II. Students will use their developing skill set to create a production for their peers. Students will continue to develop listening, speaking, reading, and writing skills to achieve a level of proficiency with the Common Core State Standards. In addition, an increase in listening, speaking, and interpreting text will be stressed using textbooks and ancillary materials. All students will incorporate higher-level thinking skills as they use constructed meaning to create a character/characters in the performance of a monologue, excerpt, and/or a play. A variety of strategies will be used to help students increase their confidence, poise, and self-awareness in performance and play production. Speaking, listening, and evaluating will be taught through formal and informal discussion for the purpose of using both those skills in authentic context. Students will be encouraged to create, collaborate, and perform as an ensemble. Students will be able to perform improvisation, monologues, and excerpts to enhance the audience's understanding of the piece, audience participation, and audience enjoyment. Students will create warm ups and participate in games to enhance ensemble performance. Students will create, direct, and act in pieces selected from literature and/or written by the students. Students will choreograph and direct others in an original performance in front of an audience of their peers. Students will critique their performance and their peers using appropriate theatrical terminology.
### 198 Public Speaking
**Grades 9-12**
Offers students instruction and practice in addressing an audience. Students learn to listen to speakers, how to organize their thoughts and material in a logical and interesting outline, to prepare power point supports, how to deliver an effective speech, and how to effectively project stage presence.

### 199 SAT English
**Grades 11**
Includes one semester of intensive drill, study, and review to increase competency in verbal and composition skills. Among the objectives are to master a vocabulary satisfactory for a college-bound student, to recognize and explain unacceptable forms in written composition, to interpret standardized testing techniques, and to evaluate strengths and weaknesses in verbal skills. This course will be graded on a pass/fail basis.

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**READING**

### 108 Reading / 108 M
**Grades 9-10**
Reading instruction is delivered through Read 180 which is an intensive reading intervention program designed to meet the needs of students who are reading below grade level. The program directly addresses individual needs through adaptive instructional software, high-interest fiction and nonfiction, and direct instruction in reading and writing skills.

### 108A Reading
**Grades 9-12**
Reading instruction is delivered through System 44 which is a comprehensive reading program designed for students who are reading far below grade level. Instruction through System 44 is designed to systematically teach students fundamental decoding skills and closely monitor their achievement.
SOCIAL STUDIES

Introduction

The Social Studies curriculum emphasizes the study of world cultures, history and government. Students are required to study Citizenship during their freshmen year. As sophomores, students will take World Studies followed by an American History course in their junior year. In addition to content, the Social Studies Department courses focus on the following skill development: reading, essay writing, analysis of primary source documents and geography. Three Social Studies credits are required for graduation from Reading High School.

GRADE 9

203 Citizenship / 203M
A study of the basic structure of government. Local, state, federal and even global citizenship skills will be stressed. Furthermore, this course will be a foundation for the study of economic, legal, and constitutional issues. The concepts of career awareness and volunteerism will be introduced as part of this course. Classroom reading assigned in English is a requirement for this course.

205 Honors Citizenship
A comprehensive study of the basic structure of government. Local, state, federal and even global citizenship skills will be stressed. Furthermore, this course will be a foundation for the study of economic, legal, and constitutional issues at a higher level. The concepts of career awareness and volunteerism will be introduced as part of this course. Research and problem-solving projects are course requirements.

206 Advanced Citizenship
Designed for those students planning to take AP World Studies in 10th grade. This is a comprehensive study of the basic structure of government. Local, state, federal and even global citizenship skills will be stressed. Furthermore, this course will be a foundation for the study of economic, legal, and constitutional issues at a higher level. The concepts of career awareness and volunteerism will be introduced as part of this course. Multimedia, high level research and problem-solving projects are course requirements.

GRADE 10

213 World Studies / 213M
Investigates change and continuity in human societies. The course focuses on the development of selected cultures and civilizations from the Renaissance to the present. This panoramic study of world history and world cultures features people and institutions with a special emphasis on those cultures making up our diverse student population. Geographical concepts are infused throughout the course.

215 Honors World Studies
Investigates change and continuity in human societies. The course focuses on the development of selected cultures and civilizations from the Renaissance to the present. This panoramic study of world history and world cultures features people and institutions with a special emphasis on those cultures making up our diverse student population. Geographical concepts are infused throughout the course. Honors World Studies requires student research on selected topics and events in critical times and on the people who influenced the course of history for better or for worse.

219 Advanced Placement World Studies

Prerequisites: Advanced Citizenship or teacher recommendation

Designed for 10th grade students, incorporates World Studies into the framework of the curricular requirements established and approved by the College Board for AP World History and the local Board of Directors. American history beginning in 1,000 AD will be examined as well as that of civilizations from Europe, Asia, Africa, and Latin America. Basic world processes also will be investigated such as disease transmission, trade, migration, cultural diffusion, social systems, economic development, technology, and the emergence of the city-state. Students will be expected to develop analytical skills such as how to handle conflicting interpretations, and how to apply large international developments to more local patterns. This new vision and new data will enhance students' understanding of many of the key historical forces shaping contemporary life. Completion of summer reading assignments is a course requirement for AP World Studies. All students electing to take AP World History are required to take the AP Exam in May.
GRADE 11

233 American History / 233M
Concentrates on the rise of America to the status of post 20th century world power. Emphasis is placed upon World War I, Roaring Twenties, Growth of Labor Unions, Urbanization, the Depression, the New Deal, World War II, Korea, the Fifties and the Sixties, Vietnam, and the 1970s, 1980s, and 1990s. There will be some emphasis given to the American Economy, Presidential Administrations, and the American Foreign Policy. 1 credit

235 Honors American History
Concentrates on the rise of America to the status of post 20th century world power. Emphasis is placed upon World War I, Roaring Twenties, Growth of Labor Unions, Urbanization, the Depression, the New Deal, World War II, Korea, the Fifties and the Sixties, Vietnam, and the 1970s, 1980s, and 1990s. There will be some emphasis given to the American Economy, Presidential Administrations, and the American Foreign Policy. This course requires a research project. 1 credit

239 Advanced Placement Government & Politics
*Prerequisite: Advance Placement World Studies or teacher recommendation
A well-designed AP course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the general concepts used to interpret US government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute the American government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behavioral and outcomes. 1 credit

SOCIAL STUDIES ELECTIVES

243 Issues of Contemporary Society / 243M
Grade 12
Aims to elevate students' awareness of specific concerns affecting their present and future. Lessons prepare students to deal with contemporary issues of government and economics. Other topics include: focus on changes in family, teaching tolerance, the juvenile justice system, and the legal system. The course also will examine controversial issues involving the community, nation, and world. Students are expected to make oral and written reports and to participate in cooperative learning. 1 credit

249 Advanced Placement American History
*Prerequisite: Advanced American Economics & Government Systems with grade of "B" or higher
Grade 12
Incorporates American History into the framework of the curricular requirements established and approved by the College Board for AP American History and the local Board of Directors. The course content covers European encounters, exploration, and the colonial period, the 1800s, 1900s up through the current day. The course is presented in a traditional chronological framework. Emphasis is placed on listening and note-taking skills as required of freshmen year college students. Essay writing and an independent research requirement on selected topics are required throughout the course: Completion of summer reading assignments is a course requirement for AP American History. All students electing to take AP American History are required to take the AP Exam in May. 1 credit

253 Honors American Econ. & Govt. Systems
Grade 12
A study is made of the U.S. Constitution and separation of power among the three branches of government. Emphasis is placed on the state and local government and the citizen's role in a representative democracy. The second half of the course deals with consumer problems, business, labor, competition, and monetary and fiscal policy in the American economy. 1 credit

259 History of Reading and Pennsylvania
Grades 9
Explores the history of Pennsylvania from pre-colonial times to the present and the City of Reading from settlement to the present. Topics will include the experience of the Native Americans who lived here prior to European contact, the Penn family and the founding of the colony, the growth of the city as a manufacturing and transportation hub, the influence the state has had on national and international events, the rise and fall of organized crime in the city, and the groups of immigrants that have added to Reading's character. 1 credit

280 Pop Culture
Grades 9
Examines historical, social and cultural development from 1600 to the present. Multiple forms of pop culture including, but not limited to, music, film, television, advertising, sports, fashion design and the internet will be analyzed. Students will synthesize how American popular culture has influenced their lives. 1 credit
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Around the World in 180 Days</td>
<td>1</td>
</tr>
<tr>
<td>Grades: 9</td>
<td></td>
</tr>
<tr>
<td>Students will travel around the world analyzing the cultural and geographical settings of various countries. The focus for analysis will include, but will not be limited to, religion, food, fashion and cultural customs.</td>
<td></td>
</tr>
</tbody>
</table>

| African American History                          | .5      |
| Grades: 10-12                                     |
| Students will discover the far-reaching influence of African-Americans throughout United States history by exploring the westward expansions and discovering and examining their dynamic struggle for freedom. Students will trace the African-American involvement in government, education, labor law, the arts, the sciences, sports, music, literature, philosophy, and business. The historic focus will be on Africa, the history of early slave trade, adaptation of African cultures to Christianity, language, family life, and the civil rights struggle. Activities will include ethnic celebration, music, foods, games, legends, and folktales. Students will be encouraged to become more tolerant of others and savor the rich variety of America's changing culture. |

| Hispanic American History                         | .5      |
| Grades: 10-12                                     |
| Students will learn to appreciate the traditions of others as they explore the rich tapestry of Hispanic cultures thriving in America today. This course will help students understand the diversity of their classrooms, neighborhoods, and the country by introducing them to each culture in relationship to American history. Students will be introduced to outstanding Hispanic men and women who have made significant contributions to their fields (government, politics, sports, philosophy, literature, the arts, music and business), countries, and culture. The course will focus on the immigrant people that built America by encouraging students to become more tolerant of others, and savor the rich variety of America's changing culture. Commentary on contemporary immigration policies and their effects on new groups of people immigrating today will be included. Among the activities will be the comparison of ethnic celebrations, music, foods, games, folktales, and legends. |

| Law & Society                                     | 1       |
| Grades: 10-12                                     |
| A basic introduction to the U.S. legal system consisting of the history of U.S. law, Constitutional law, torts, property law, family and juvenile law, judicial procedures, civil procedures, and criminal procedures. This course will also allow students to participate in a mock trial process. |

| Introduction to Psychology                       | .5      |
| Grades: 11-12                                     |
| The focus of Introduction to Psychology is to provide students with practical instruction in psychological issues they may be able to use in their daily lives. Students will discover their own learning style and will be given information to help improve their learning skills. Areas to be explored include careers in psychology, historical figures and approaches to psychology, family systems and dynamics, child development and parenting, communication skills, anorexia and other eating disorders. |

| Introduction to Psychology II                    | .5      |
| Grade: 12                                        |
| *Prerequisite: Introduction to Psychology        |
| Helps prepare students for a college level course in Psychology. An emphasis is placed on the history of and approaches to psychology and the key contributors to the field. Note-taking skills are emphasized as students learn about personality development, experimental design and psychological disorders. A five-page research paper is a course requirement. |

| Sociology I                                      | .5      |
| Grades: 10-12                                     |
| Examines social issues in the United States and our community. Problems affecting students will be studied, including poverty, racism and prejudice, social stratification, and social deviance and crime. The process of becoming a productive member of our society, called socialization, will be explored, and the effects of culture or socialization will be explored. |

| Sociology II                                     | .5      |
| Grade: 10-12                                     |
| *Prerequisite: Sociology I                       |
| An introduction to sociological theory and research intended to prepare students for college coursework in sociology. The three main theories of sociology, Functionalism, Internationalism and Conflict theory, will be explored in depth, as well as research methodology and experimental design. The reading and pace of this course are challenging, and a five-page research paper is required. |

| Criminal Justice and Society                     | 1       |
| Grade: 12                                        |
| A study of the criminal justice system gives students a unique glimpse into the many facets of this field. Students will learn about problems facing this system, technological developments, and new methods available to meet these challenges. International and comparative criminal justice systems will be studied. The second semester will provide students with an overview of careers in the criminal justice and social work fields. Contacts with workers and professionals in these fields will be included. |
WORLD LANGUAGES

Introduction

World Language study is unique because it focuses on written and spoken language. It is a communications course. Foreign sounds, symbols, customs, and lifestyles are part of the language experience. Language studies can open many doors and become one of the most exciting and long-lasting experiences for today's students. All classes focus on communication, culture, comparison, connections, and communities.

All ninth grade students in honors classes must take a World Language. Honors weighting will not be given to any student for any level of language taken in grade nine.

FRENCH

351 French I 1 credit
*Prerequisite: student not enrolled in required reading class, student must read on grade level
An introduction to the French language, people, customs, history, geography, and culture, as well as to the French-speaking "francophone" world. Students develop vocabulary and acquire grammar skills through speaking, listening, observing, reading, and writing activities, as well as through singing, role-playing, and competitive and interactive games, the televised novel "télé-roman" and small projects. This course is designed to lay the foundation for continuous study and has the hidden benefit of improving grammar skills in other languages such as English and Spanish.

352 Honors French II 1 credit
*Prerequisite: French I with a grade of "C" or higher
Designed to reinforce and expand upon the concepts learned in French I (see 351 - French I). Students strengthen and broaden their foundation in French vocabulary, grammar, history, geography, culture, and customs through speaking, listening, reading (including poetry), and writing activities, as well as through singing, role-playing, competitive and interactive games, televised novel "télé-roman" and projects.

353 Honors French III 1 credit
*Prerequisite: Honors French II with a grade of "C" or higher
Reinforces and expands on the activities in French II offering more advanced themes for conversation, more complex grammar, and more extensive cultural, historical, and geographical information. Students continue to learn through speaking, listening, observing, reading (including poetry), and writing activities, as well as through singing, role-playing, competitive and interactive games, televised novel "télé-roman" and projects.

354 Advanced French IV 1 credit
*Prerequisite: Advanced French III with grade "B" or higher
A continuation of many of the activities from the previous levels of French with continued focus on vocabulary and grammar. On this level, there is more emphasis on reading and listening comprehension. The course entails reading at least one novel written in French and watching textbook recommended French films as well as a more advanced series of the televised novel, "télé-roman". Students are required to demonstrate comprehension by completing various activities and through reporting, discussing, and writing about these novels and films.

GERMAN

361 German I 1 credit
*Prerequisite: student not enrolled in required reading class, student must read on grade level
Designed to lay the foundation of the basics of German. The student learns the rules of German grammar. There is an introduction to basic conversational phrases and to culture. Any motivated student not required to take reading is welcome to enroll.

362 Honors German II 1 credit
*Prerequisite: German I with a grade of "C" or higher
Designed to give a firm grammatical background, while also building vocabulary, speaking and writing skills. Whenever possible, historical and cultural elements will be discussed in the German language. This course also stresses perfecting oral reading skills and promotes fluency in the language.

363 Honors German III 1 credit
*Prerequisite: Honors German II with a grade of "C" or higher
Designed to give students a grammatical foundation for continued study of the German language, culture, and history, with emphasis on vocabulary building, sentence structure, and conversation.
364 Advanced German IV

1 credit

A continuation of German III. There is continued emphasis on advanced grammar, writing, reading, and listening comprehension. It also exposes the student to a variety of reading, both prose and poetry, from various German authors. Video and audio discs are used.

LATIN

Please note: The Latin classes are recommended for the serious student who is interested in improving English vocabulary skills in preparation for college entrance exams. It is also highly recommended for students with career goals in the fields of medicine and law.

371 Latin I

1 credit

*Prerequisite: student not enrolled in required reading class, student must read on grade level.

The beginning of classical studies, focusing on mastery of Latin grammar, syntax and vocabulary. There is a particularly strong emphasis on vocabulary, which serves as a base for English derivatives and cognates. The course includes simple Latin to English translations of adapted Roman stories, practice phrases and sentences. The following cultural aspects are also included in this course: myths of creation, history from Trojan War to the end of Monarchy, daily Roman life. Students will have an opportunity to become members of Junior Classical League.

372 Honors Latin II

1 credit

*Prerequisite: Latin I with a grade of "C" or higher.

Designed to be a two year sequence of courses which, if successfully completed, will enable students to read such Latin authors as Ovid, Horace, Caesar, Catullus and Virgil in the original Latin. Students will continue mastery of grammar, vocabulary and syntax. Mythology is covering the rare and interesting myths from Ovid's Metamorphoses. Roman daily life covers laws, famous women, medicine, etc. Students will have an opportunity to participate in Classical Writing Contest and other activities related to Junior Classical League.

373 Honors Latin III

1 credit

*Prerequisite: Honors Latin II with a grade of "C" or higher.

Designed to increase the student's reading comprehension skills, continue studying complex grammar structures and vocabulary. Readings from Horace, Ovid, Catullus and other Roman authors in original will be introduced. Mythology will cover Roman heroic legends and study of underlying structure behind religion and myth. History will cover Roman Imperial Dynasties. Cultural studies will continue concentrating on famous Romans. Students will have an opportunity to participate in Classical Writing Contest and other activities related to Junior Classical League.

374 Advanced Latin IV

1 credit

*Prerequisite: Advanced Latin III with grade "B" or higher.

Designed to expose the student to a variety of reading, both poetry and prose, from different Latin authors. The most complex grammar structures are covered and vocabulary and English derivatives are still emphasized. A brief introduction to the genres of Latin literature and the personalities of the various authors are also part of the curriculum.
# SPANISH

(Spanish for the Native Speaker classes are listed separately.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>381 Spanish I</td>
<td>1</td>
<td>Designed for the student who does not speak Spanish at home. The student will learn the language basics including a focus on grammar. Spanish customs will be explored. Native speakers with a foundation of reading and writing in Spanish should not enroll in this course.</td>
</tr>
<tr>
<td>382 Spanish II</td>
<td>1</td>
<td>Designed to reinforce and add simple grammatical principles and vocabulary beyond the first-year course. This level broadens the foundations for further study through practice in reading, writing, speaking, and listening. Written projects are assigned.</td>
</tr>
<tr>
<td>382U Honors Spanish II</td>
<td>1</td>
<td>Designed to reinforce and add simple grammatical principles and vocabulary beyond the first-year course. This level broadens the foundations for further study through practice in reading, writing, speaking, and listening. Written projects are assigned.</td>
</tr>
<tr>
<td>383 Honors Spanish III</td>
<td>1</td>
<td>Designed to give a summation of previous experience in pronunciation, vocabulary and grammar. There is further emphasis on the student’s ability to converse, to write the language with some degree of proficiency, and to read it with understanding.</td>
</tr>
<tr>
<td>384A Advanced Spanish IV</td>
<td>1</td>
<td>Offered to students who have excelled in Spanish III. It is designed to give the student advanced mastery of the Spanish language. Conversational phrases for travel are included. An in-depth study of Spanish geography, history, literature, and culture is presented. Oral and written projects are also assigned. Students are expected to read and respond to short prose and novel excerpts from various Spanish speaking countries.</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>381N</td>
<td>Spanish I for the Native Speaker</td>
<td>1</td>
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<tr>
<td>382N</td>
<td>Honors Spanish II for the Native Speaker</td>
<td>1</td>
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<tr>
<td>383N</td>
<td>Advanced Spanish III for the Native Speaker</td>
<td>1</td>
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<tr>
<td>384N</td>
<td>Advanced Spanish IV for the Native Speaker</td>
<td>1</td>
</tr>
</tbody>
</table>
MATHEMATICS

Introduction

Four credits of mathematics are required for graduation. Students who pass Algebra I in grade 8 with a "C" or better course grade and a "C" or better on the final exam will receive one credit toward the mathematics requirement. This credit will not be included in a student’s GPA.

The Mathematics Department has a wide range of courses to help students meet the requirements set forth by the Pennsylvania Department of Education.

The Mathematics Department, for general credit for graduation, offers elective courses in computer programming. While credit received for computer programming may not be applied toward graduation requirements in mathematics, students electing to take computer programming will obtain a solid background in one or more programming languages and will get an opportunity to apply many of the mathematical skills learned in the traditional mathematics courses.

GRADE 9

403 Algebra I / 403M
Stresses basic algebra skills and problem solving techniques. Topics include: integers, exponents, formulas, properties of real numbers, and solving and graphing linear equations and inequalities. Upon completion of this course, students will take the Algebra I Keystone Exam.

426A Algebra I Mod A / 426AM Algebra I Mod A
Covers half of the Algebra I curriculum during the course of two semesters. This course is paced to allow students to obtain a deeper understanding of the concepts of Algebra I for the students needing remediation. This course stresses basic algebra skills and problem solving techniques. Topics include: integers, exponents, formulas, properties of real numbers, and solving and graphing linear equations and inequalities.

405 Advanced Algebra II
Provides the needed background for the study of geometry, trigonometry, and calculus. Topics include: properties of real numbers, relations and functions, systems of equations and inequalities, the quadratic function, complex numbers, radicals, polynomials, and rational expressions.

406 Honors Algebra II / 406M
Provides the needed background for the study of geometry, trigonometry, and calculus. Topics include: properties of real numbers, relations and functions, systems of equations and inequalities, the quadratic function, complex numbers, radicals, polynomials, and rational expressions.

GRADES 10 - 12

426 Algebra I / 426M
Stresses basic algebra skills and problem solving techniques. Topics include: integers, exponents, formulas, properties of real numbers, and solving and graphing linear equations and inequalities. Upon completion of this course, students will take the Algebra I Keystone Exam.

426 B Algebra I Mod B / Algebra I Mod B 426BM
The second component of Algebra I Mod A. It completes the curriculum that would be covered in Algebra I. This finalizes the deeper understanding of algebra concepts for the student needing remediation in these skills. This course stresses basic algebra skills and problem solving techniques. Topics include: integers, exponents, formulas, properties of real numbers, and solving and graphing linear equations and inequalities. Upon completion of this course, students will take the Algebra I Keystone Exam.

461 Algebra II / 461M
*Prerequisite: Algebra I
Further develops and reinforces algebra skills obtained in Algebra I. Topics include: systems, exponential and quadratic functions, polynomials, rational expressions, and radicals.

461K Algebra II
*Prerequisite: Algebra I
Designed to cover Algebra II content while providing support for student in grades 10-12 grade students who have taken but not passed the Keystone Algebra I exam as well as students who need enrichment to be successful in Algebra II. Upon completion of this course, students will take the Algebra I Keystone Exam.
**467 Honors Algebra II**

*Prerequisite: Algebra I and teacher recommendation*

Covers topics including properties of real numbers, relations and functions, system of equations and inequalities, the quadratic functions and radicals, polynomials, and rational expressions.

**428 Geometry / 42BM**

*Prerequisite: Algebra II*

Presents fundamental concepts of plane and solid geometry, logical reasoning, and the effective use of algebra in the solution of geometry related concepts. Topics covered include: parallel and perpendicular lines, angle relationships, triangles, quadrilaterals, similarity, area, volume, and circles.

**428X Geometry**

*Prerequisite: Algebra II*

Designed to provide support for 10th-12th grade students who have taken but not passed the Keystone Algebra I exam as well as students who need enrichment to be successful in Geometry. Upon completion of this course, students take the Algebra I Keystone Exam.

**429 Honors Geometry**

*Prerequisite: Honors Algebra II and teacher recommendation*

Incorporates algebra in the study of geometry. Topics covered include: inductive and deductive reasoning, angle relationships, perpendicular and parallel lines and planes, congruent triangles, similar polygons, circles, coordinate geometry, areas of polygons and circles, and areas and volumes of solids.

**481 Advanced Geometry**

*Prerequisite: Honors Algebra II and teacher recommendation*

A blend of topics from Euclidean geometry, coordinate geometry of the conic sections, vector geometry, and transformational approaches to geometry.

**463 Trigonometry**

*Prerequisite: Algebra II and Geometry*

Covers topics including: coordinate geometry, the six trigonometric functions, solving right triangles, applications of the Law of Sines and the Law of Cosines, and graphing the trigonometric functions.

**463X Trigonometry**

*Prerequisite: Algebra II and Geometry*

Designed to provide support for 10th-12th grade students who have taken but not passed the Keystone Algebra I exam as well as students who need enrichment to be successful in Trigonometry. Upon completion of this course, students will take the Algebra I Keystone Exam.

**464 Honors Trigonometry**

*Prerequisite: Algebra II and Geometry and teacher recommendation*

Trigonometry is a course that emphasizes applications of right triangle geometry and its application to the solution of real-world problems. Another focus of the course is the application of algebra to the study of trigonometric identities, complex numbers, and logarithms. This course is required for the study of calculus and college-level mathematics.

**465 Honors Calculus**

*Prerequisite: Honors Trigonometry or Advanced Pre-Calculus and/or teacher recommendation*

Applies algebra, geometry, trigonometry and the concepts of limits of functions to the study of differentiation and integration. Topics include limits, continuity, derivatives and integrals of algebraic, trigonometric and logarithmic functions, and applications. Calculus lays the foundation for further study in mathematics and the sciences at the college level.

**467 Honors Statistics**

*Prerequisite: passing grade in Algebra II*

Introduces statistics and probability in depth. Topics covered may include: summarizing and graphing data, probability, distributions, interpretations, analysis and correlation of single and multiple variable data.

**468 Advanced Placement Statistics**

*Prerequisite: grade "C" or higher in both Advanced Pre-Calculus and Honors Algebra II and teacher recommendation.*

Incorporates Statistics into the framework of the curricular requirements established and approved by the College Board for AP Statistics and the local Board of Directors. This course introduces statistics and probability in depth. Topics covered may include: summarizing and graphing data, probability, distributions, interpretations, analysis and correlation of single and multiple variable data. All students electing to take AP Statistics are required to take the AP Exam in May.
470 Integrated Mathematics
*Prerequisite: Algebra I
Covers the basic concepts of Algebra I, Algebra II, Geometry and Math Analysis. Topics will include, but are not limited to solving equations, graphing equations, factoring, polynomials, radicals, properties of basic geometric shapes, finding area and volume of geometric shapes as well as finding statistical data.

482 Advanced Pre-Calculus
*Prerequisite: grade "B+" or higher in Advanced Geometry
Focused on preparing students for AP Calculus by extending a student’s knowledge of algebra and geometry to the study of functions. An emphasis is placed on the techniques of trigonometry, as well as on graphical analysis of functions.

483 Advanced Placement Calculus A/B
Grade 12
*Prerequisite: grade "B+" or higher in Pre-Calculus or teacher recommendation
Incorporates Calculus into the framework of the curricular requirements established and approved by the College Board for AP Calculus and the local Board of Directors. This course covers topics including: functions, differentiation of polynomial, trigonometric, implicit, exponential, and logarithmic functions, integration techniques, applications of the derivative and of the integral, area between two curves, volumes or solids of revolution, polar coordinates, parametric equations, differential equations, and infinite series. All students electing to take AP Calculus are required to take the AP Exam in May.

484 Advanced Placement Calculus B/C
Grade 12
*Prerequisite: AP Calculus A/B with a grade of "C" or higher
Incorporates Calculus into the framework of the curricular requirements established and approved by the College Board for AP Calculus and the local Board of Directors. This course is the continuation of AP Calculus A/B, aligned with the curriculum of the College Board, including topics such as partial differential equations, spherical coordinates and basic vector calculus. All students electing to take AP Calculus are required to take the AP Exam in May.

485 Math of Personal Finance
Grade 12
*Prerequisite: Algebra II
Explores topics necessary for adults to make informed and intelligent choices with their personal finances. Topics included are payroll, checking and savings accounts, credit accounts, credit cards, car loans, mortgages, stock market, life and auto insurance, income taxes, and budgets. Required for course: Scientific Calculator

421 Algebra Standards
Grade 11
Designed to give remediation to students that have not passed the Keystone Exams. Students will spend a semester with a Mathematics certified teacher to work on specific skills that are needed in order to pass the Algebra I Keystone exam. Upon completion of this course, student will take the Algebra I Keystone Exam.
COMPUTER PROGRAMMING CURRICULUM

Note: The computer programming courses listed below are offered by the Mathematics Department for general elective credit only. Credit for computer programming courses may not be used to fulfill the credit requirement in mathematics for graduation.

The computer programming sequence which includes Computer Programming I, II, and III is designed to provide students with maximum coverage of beginning and advanced computer concepts. Applications of algebra and other mathematical areas are provided, as well as object-oriented programming methods.

492 Computer Programming I
1 credit
*Prerequisite: Algebra I
An introductory course in structured computer programming using the Java language. Students will learn how to design and implement algorithms and to write Java programs using expressions, conditional expressions, and functions.

495 Computer Programming II
1 credit
*Prerequisite: Passing grade in Computer Programming I
A continuation of Computer Programming I with an emphasis on problem solving. Students will use object-oriented programming techniques to solve complex problems involving arrays, files, and strings.

496 Advanced Placement Computer Science
1 credit
*Prerequisite: "A" or higher in Computer Programming I and II or "B" or higher in Pre-Calculus
This course is to prepare students for the Advanced Placement Computer Science A exam. The students will learn advanced programming methods using the Java Programming Language. The course will emphasize basic programming design, object oriented design, and organizing and processing data using techniques for today's programming environment. Students taking this course will be required to complete a minimum of 20 hours of lab activities along with two large scale projects designed to show their unique talents and interest.

OTHER ELECTIVE

499 SAT Mathematics
.25 credit
*Prerequisite: Algebra I and Geometry (or taking concurrently)
Includes one semester of intensive drill, study, and review to increase competency in mathematics skills needed to be successful on the SAT. Among the objectives are to master mathematics skills necessary for a college-bound student, to recognize and explain mathematical procedures and formulas, and to utilize standardized testing techniques. The course is designed to familiarize students with both the format and the types of questions on the Scholastic Aptitude Test (SAT). The course will be graded on a Pass/Fail basis.
**SCIENCE**

**Introduction**

Three credits of science are required to meet the graduation requirement.

1. Knowledge in the sciences will be presented in a manner that could make further study in the field possible.
2. Experimentation will be employed to demonstrate the principles of science.
3. Science is not just facts, rather it is a continuing process.
4. The courses of study in science should be designed so as to appeal to students who have an interest toward the humanities as well as to those who are already interested in science.
5. Science is designed to develop in students a type of thinking that is objective, critical, analytical, and quantitative.
6. Pennsylvania System of Higher Education now requires all incoming college freshman to have a Chemistry credit, effective in the 2013-2014 school year.

**GRADE 9**

**501 Integrated Science / 501M**

1 credit

Introduction to the fundamentals of chemistry and physics standards, as required by state and district regulations. Emphasis will be on practical application of the scientific method to mandatory hands-on chemistry and physics laboratory work. Good organization, a positive attitude, and a strong work ethic will contribute to student success in this course.

**504 Honors Integrated Science**

1 credit

Physical science is the study of matter, energy and their interactions. The goal of the course is to expose students to both the physical and chemical sciences. The course content includes, but is not limited to, Newton's Laws of Motion, basic mechanics, energy, atomic structure, phases of matter, and chemical interactions. Students will participate in laboratory activities to develop chemical control and individual technique.

**506 Honors Biology 9th grade**

1 credit

*Prerequisite: "B" or higher in 8th grade science and teacher recommendation*

Designed for the honors student with an interest in science. Topics covered include: taxonomy, genetics, evolution, biochemistry, scientific method, biotechnology, classification, and cytology. Laboratory experience, including dissection of various representative specimens, is an important part of this course. **Students are required to complete a science fair project.**

**GRADE 10**

**510 Biology / 510M**

1 credit

Students will be exposed to information directly related to the biochemical world of biology as it is functioning today. The program is organized to present life from the simplest levels of organization to the complex levels. Basic chemistry, cell biology and genetics provide information about the individual organisms. Interrelationships between organisms and ecosystems of the biosphere will be explored. Evolution of species and classification will help the student to understand the history and changes that occur in the world. Laboratory activities will offer the students hands-on experience in a variety of content.

**511 Honors Biology 10th grade**

2.17 credits

Designed for the advanced student with an interest in science, this course is to provide the student with instruction and laboratory experience. Topics will include: taxonomy, genetics, evolution, biochemistry, scientific methodology, biotechnology, and a survey of each of the kingdoms. Dissection of various specimens is an important part of this course. Individual research is required.

**512 Advanced Placement Biology**

2.17 credits

*Prerequisite: "B" or better in Honors Integrated Science or Advanced/Honors Biology*

The Advanced Placement Biology course is designed to meet the requirements of a first year, college-level biology course. The content as outlined in the AP Biology Curriculum Framework is organized around a few key conceptual understandings called the Four Big Ideas: the evolution of life, the utilization of free energy and molecular building blocks by biological, the ability of living systems to store, retrieve, transmit and respond to information and the complex properties that emerge when biological systems interact. Inquiry-based laboratory investigations will be performed that engage students in the Science Practices of using models, applying mathematical routines, posing scientific questions, designing and conducting experiments, analyzing data, communicating results, working with scientific explanations, and connecting concepts across domains. A deepening level of conceptual understanding and the development of advanced inquiry and reasoning are emphasized. **All students electing to take AP Biology are required to take the AP Biology Exam in May.**
GRADUES 11 AND 12
(Grade 10 as indicated)

515 Earth Systems
1 credit
Designed to explain global earth systems. By various means, the dynamic nature of the hydrosphere, atmosphere, and lithosphere will be illustrated, explained, and demonstrated. The connection between humans and the earth is emphasized. Topics include geology, meteorology, astronomy and the hydrosphere.

545M Environmental Science
1 credit
Students taking this course will study: watersheds and wetlands, renewable and non-renewable resources, environmental health, agriculture and society, integrated pest management, ecosystems and their interactions, endangered and extinct species, humans and environment and environmental laws and regulations.

590 Chemistry / 1580M
*Prerequisite: grade "C" or higher in Algebra I
Focused on fulfilling the state mandated course requirements for chemistry, this course requires a good understanding of algebra. Topics such as formula writing; equation completion, periodic table, conservation of matter and energy, bonding, and acids and bases will be included.

582 Honors Chemistry
*Prerequisite: grade "B" or higher in Algebra I
Grade 10 students may take this course if they have taken Honors Biology in grade 9 and received teacher recommendation
Designed to give the student insight into the composition and properties of matter. Topics include: atomic structure, chemical bonds, the mole concepts, chemical reactions, acid-base theory, and gas laws. Laboratory activities promoting understanding of principles, good laboratory hygiene, and laboratory technique will be emphasized.

583 Advanced Chemistry
*Prerequisite: grade "A" or higher in Algebra I or Algebra II
Grade 10 students may take this course if they have taken Honors Biology in grade 9 and received teacher recommendation
Designed to give the students an insight into the composition and properties of matter. Topics include: atomic structure, chemical bonds, the mole concepts, acid-base theory, and oxidation-reduction reactions. Laboratory activities promoting understanding of principles, good laboratory hygiene, and laboratory technique will be emphasized. This course is designed to prepare students who are interested in taking Advanced Placement Chemistry.

584 Advanced Placement Chemistry
1.17 credit
Grade 12
*Prerequisite: grade "A" or "B" in Advanced or Honors Chemistry
Incorporates Chemistry into the framework of the curricular requirements established and approved by the College Board for AP Chemistry and the local Board of Directors. This course is a continuation of first year chemistry. It is equivalent to a first semester college chemistry course with an emphasis on equilibrium, kinetics, reaction writing, and thermodynamics. All topics included in the AP chemistry exam will be covered. Laboratory activities will correspond to the topics covered in class using qualitative and quantitative analyses. Completion of summer reading assignments is a course requirement for AP Chemistry. All students electing to take AP Chemistry are required to take the AP Exam in May.

552 Honors Physics
1.17 credit
*Prerequisite: Advanced or Honors Chemistry is highly recommended AND Honors Algebra II, Honors Trigonometry or Advanced Pre-Calculus should be taken concurrently.
Designed to meet state and local standards in physics for the student interested in science. Students will study topics related to force, motion, energy, momentum, electricity, magnetism, and nuclear interactions. An emphasis is placed on problem solving.
Advanced Placement Physics I
Grade 11
*Prerequisite: grade "B" or higher in Honors Algebra II and Advanced Geometry. Juniors should be taking Advanced Pre-Calculus concurrently. Honors or Advanced Chemistry is highly recommended.

incorporates Physics into the framework of the curricular requirements established and approved by the College Board for AP Physics and the local Board of Directors. This course is intended for the college-bound student who has well-above-average ability in math and science. The primary objective of this course is to develop analytical/critical-thinking skills. A higher emphasis is placed on the process of how to learn physics, as opposed to coverage of course content material. Students will study topics including: force, motion, momentum, energy, electricity, magnetism, and the nucleus. These topics represent approximately two-thirds of the topics tested in the AP Physics (non-calculus) exam. This course, combined with #556 AP Physics II, is designed to meet state and local standards in physics.

Completion of summer mathematics assignments is a course requirement for AP Physics I. All students electing to take AP Physics I are required to take the AP Physics I Exam in May.

Advanced Placement Physics II
Grade 12
*Prerequisite: grade "B" or higher for two years of Honors or Advanced Math (taking either AP Calculus or AP Statistics concurrently) and a C or better in AP Physics I.

incorporates Physics into the framework of the curricular requirements established and approved by the College Board for AP Physics and the local Board of Directors. This course is intended for the college-bound student who has well-above-average ability in math and science. This course is an enhancement of AP Physics I. Topics studied includes: waves, light, optics, heat, the nucleus, and the quantum theory. Completion of summer reading assignments is a course requirement for AP Physics II. All students electing to take AP Physics II are required to take the AP Physics II Exam in May.

SCIENCE ELECTIVES

Zoology
Grades 11-12
*Prerequisite: Biology 510

Students with an interest in the natural sciences, particularly animals, should take this course. The foundation of this course is a survey of the major vertebrate and invertebrate animal groups. This will include the evolution of, biological contributions of, and behavior of these major groups. Dissections of at least three major animal groups will be performed. Special emphasis will be placed on insects. Higher vertebrates also will be discussed in detail.

Field Biology
Grades 11-12
*Prerequisite: passing grade in Biology

Students learn how to identify some of the common arthropods, fish, amphibians, reptiles, birds, and mammals that are found in Berks County. Some fieldwork will be done on the Reading High School campus. The ecological importance of local animals will be stressed.

Botany
Grades 11-12
*Prerequisite: passing grade in Biology

Designed to provide students with a background and appreciation of the plant kingdom. Concentration will be on laboratory and greenhouse assignments with various plant species, along with a detailed examination of general plant anatomy and physiology. There will be outdoor lessons in the early fall and spring.

Environmental Science
Grades 9-12

For students who are interested in the problems that develop because of human interactions with our surroundings. There are three broad areas of problems covered: pollution, resource depletion, and extinction. A concise review of each topic is undertaken, problems are discussed and solutions are determined.

Forensics
Grades 11-12

Forensics is the study of the application of scientific knowledge in the investigation of crime. This is a one-semester science course that will be a study of contemporary issues involving forensics. Topics to be covered include: fingerprints, examination of patterns and evidence, including DNA.

Human Systems
Grade 12
*Prerequisite: Biology

1.17 credit
Designed for students who are interested in a healthcare-related field. The course will include human anatomy, physiology, organ systems, microscope work on human tissues, and animal dissection. Student participation in dissection labs on cat specimens and other preserved vertebrate organs is required.

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<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credit</th>
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<tbody>
<tr>
<td>591 Honors Human Anatomy/Physiology</td>
<td>12</td>
<td>1.17</td>
</tr>
<tr>
<td>*Prerequisite: Biology and Chemistry</td>
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<tr>
<td>Designed for the student considering a science or health career. The physiology and anatomy of the various human organ systems are covered. A considerable amount of microscopic work on human tissues is done as well as dissection of a cat and other preserved vertebrate organs. Student participation in all dissection labs is a requirement.</td>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>592 Advanced Human Anatomy/Physiology</td>
<td>12</td>
<td>1.17</td>
</tr>
<tr>
<td>*Prerequisite: Biology and Chemistry</td>
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</tr>
<tr>
<td>Designed for students considering a health or science career. The anatomy and physiology of the various human organ systems are covered. A considerable amount of microscopic work on human tissues is done as well as dissection of a cat and other preserved vertebrate organs. Every student is expected to complete an outside project each quarter, under teacher direction, involving some aspect of the health field. Student participation in all labs is a requirement.</td>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>509 Biology Standards</td>
<td>11</td>
<td>.5</td>
</tr>
<tr>
<td>Designed to give remediation to students that have not passed the Keystone Exams. Students will spend a semester with a Biology certified teacher to work on specific skills that are needed in order to pass the Biology Keystone Exams. Upon completion of this course, student will take the Biology Keystone Exam.</td>
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BUSINESS AND TECHNOLOGY EDUCATION

Introduction

Our Business and Technology Department offers students opportunities to acquire skills that will lead to financially rewarding careers immediately upon high school graduation. Students can prepare for post-secondary education by learning computer techniques and using knowledge gained through courses such as Accounting. Students have the opportunity to obtain a Microsoft Office Certificate.

Students who plan to pursue employment immediately upon graduation from high school can:

1. Pursue a program of studies to prepare him/her for today’s employment market. Our Microsoft Office course is specially designed to provide students with comprehensive training that enables them to enter the job market.

2. Learn keyboarding, word processing, database, and spreadsheet applications with “hands on” training. Students become proficient in current office technology and will be able to work in local business and industry.

3. Receive job placement assistance through the Cooperative Work Experience Program, which is available to all senior seminar participants. Students accepting employment as part of the co-op program often retain those positions after graduation, thus, beginning their careers.

Students who plan to pursue post-secondary education can:

1. Embark upon a track of learning geared toward helping him/her master the skills necessary for successful college learning.

2. Begin the study of accounting, which is the basis for all businesses. Our accounting courses provide a solid foundation upon which to build an executive future beginning with higher education.

Whether you are pursuing a career immediately after high school or planning post-secondary education, there is a wide variety of courses available for you in Business and Technology Education. These courses may help you identify a potential career, help you obtain employment, and/or give you a solid foundation for post-secondary education.

600 Computer and Career Awareness

Grade 9

Students will learn and experience the basic functions of the computer, as applied to daily use. Students will learn how to make wise decisions when purchasing a computer and/or software. Hands-on classroom activities will include: proper keyboarding techniques and word processing. Telecommunications and computer technology are discussed. Career education information, academic, and vocational choices available to the students to be successful in the 21st century will be discussed and also facilitated by use of the Internet.

611 Business Math / 611M Business Math

Grades 11-12

1 credit

Develops students’ abilities to solve complex business related math problems. Students will learn to maintain personal finances and compute business related math such as personnel, production, and purchasing.

612 Business Math II / 612M Business Math II

Grade 12

1 credit

*Prerequisites: Business Math or department approval which may involve a pretest

A continuation of Business Math I which will begin with a review of general math concepts. Students will solve math related problems involving insurance, investments, personnel, production, purchasing, and sales.

616 Accounting I

Grades 10-12

1 credit

Accounting is the language of business and involves the keeping of financial records. This course will provide students with the skills necessary for (1) increased employment opportunities, or (2) a solid foundation to begin higher education. Students learn both manual and computerized accounting processes involving journals, ledgers, and financial statements. Both academic and career and technology students are encouraged to enroll in Accounting.

618 Accounting II

Grades 11-12

1 credit

*Prerequisite: Accounting I

Builds upon the concepts discussed in Accounting I and develops new concepts of special journal, payroll, accruals and deferrals, depreciation, and bad debts.
626 Business Law—Contracts
Grades 9-12
Students will be introduced to legal terms and concepts such as "offer and acceptance." Practical applications of the law as it relates to offer and acceptance, genuine agreement, mutual consideration, capacity, legality of contracts, contractual duties, and how courts enforce contracts will be emphasized. Also covered will be the legal considerations of marriage and divorce as well as wills, estates, and trusts. Performance in topic-related skills and mock trials will be used.

627 Entrepreneurship
Grades 10-11
Entrepreneurship recognizes the importance of a business opportunity. From the initial idea to the operating and maintaining a business, this course explores every aspect of business ownership. Entrepreneurship is necessary not only for students who will become entrepreneurs, but also for individuals working in the increasingly competitive corporate world. In United States small businesses makes up close to 90% of all businesses. Entrepreneurship integrates the functional areas of business—accounting, finance, marketing, and management—and the legal and economic environments in which any new venture operates.

628 Virtual Enterprise Entrepreneurship Capstone
*Prerequisite: Entrepreneurship
Virtual Enterprise (VE) is a simulated business that is set up and run by students. With the guidance of the teacher and real-world business partners, the students determine the nature of their business, its products and services, its management and structures and learn the daily operation of a business. Students will be involved in simulated on the job work experiences, including accounting, personnel administration, developing a business plan, management and marketing. Emphasis is placed on using current business software, communications, and the Internet for business transactions. Additionally, students will run their own virtual checking account, will be receiving a virtual paycheck, and be required to pay virtual bills including rent, utilities, and miscellaneous expenditures. Working collaboratively, students will develop and enhance oral and written communication skills through initiative, creativity and responsibility. All class experiences simulate those found in business and industry.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit</th>
<th>Description</th>
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<tbody>
<tr>
<td>630</td>
<td>Multimedia Webpage Design</td>
<td>.5</td>
<td>Builds on the students' knowledge of computers and the use of multimedia. Students will enhance their understanding of web-page design, desktop publishing, and graphic applications by using multimedia equipment independently and in groups. Students will use sound, pictures, animations, graphics, text, and video to enhance their multimedia presentations.</td>
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<tr>
<td>631</td>
<td>Advertising</td>
<td>.5</td>
<td>Students will study the reasons why marketers choose to sell products to target markets. Students will need to use the Internet for researching different types of advertising mediums. Students will promote products of their choosing and create different types of advertisements. They will create an entire advertising campaign for a product of their choice and present the campaign as a final project.</td>
</tr>
<tr>
<td>632</td>
<td>Sports and Entertainment Marketing</td>
<td>.5</td>
<td>Takes students on a step-by-step journey through the exciting world of sports and entertainment marketing. Students will learn about the key functions of marketing and how those functions are applied to the sports and the entertainment industry. Guest speakers, case studies, and online activities will broaden the classroom learning experience.</td>
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<tr>
<td>633</td>
<td>Multimedia Web Animations &amp; Digital Literacy</td>
<td>.5</td>
<td>Students will learn how to break down themes, designs, and processes into smaller, programmable parts. JavaScript will be used to teach these cornerstone concepts.</td>
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<tr>
<td>634</td>
<td>Employment Law</td>
<td>.5</td>
<td>Introduces students to the fundamental principles associated with employment law, including Affirmative Action, OSHA, FMLA, ADA, drug and alcohol screening, wrongful discharge, hiring policies, searches and seizures by employers, and violence in the workplace.</td>
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<tr>
<td>637</td>
<td>Microsoft Office &amp; General Office Technology</td>
<td>1</td>
<td>Designed to introduce students to computers and the use of Microsoft Office 2007. Students will learn about the four essential components of Microsoft Office 2007 to include: Microsoft Word for word processing, Microsoft Excel for spreadsheets and charts, Microsoft Access for database management, and Microsoft PowerPoint for presentation applications. Topics include form letters, mail merge, financial functions, and data tables; creating and querying a database, customizing reports and forms in Access, and importing clips into PowerPoint. This will give the students a hands-on learning experience on the use of the Internet, computer presentation skills, word processing, and spreadsheet applications. Additional instruction is given in resume and interview techniques, filing, electronic calculators, and telephone procedures. Organizing and prioritizing skills will be stressed in this independent learning environment.</td>
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<tr>
<td>652</td>
<td>Keyboarding /Computer Applications</td>
<td>1</td>
<td>Keyboarding is a beginning course for all students to become proficient on any personal keyboard. The student will be provided with instruction for basic proficiency through drills and skill building. Word processing will concentrate on documents such as business and personal letters, memoranda, research papers, and lab reports. Spreadsheets will be taught using basic business and scientific applications of formulas. Presentation software will be part of the course.</td>
</tr>
<tr>
<td>661</td>
<td>Business Communications &amp; Correspondence</td>
<td>1</td>
<td>Recommended for students who are interested in improving their communications skills. It is designed to give students a better understanding of the principles of grammar, punctuation, and spelling. The students will be given a practical approach to the art of writing effectively, as well as communicating with others.</td>
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</tbody>
</table>
# INDUSTRIAL ARTS/TECHNOLOGY

## Introduction

Industrial Arts/Technology experiences assist students in selecting careers and becoming intelligent consumers in a technical world. If students plan to enter college, pursue a vocational program, or are undecided as to their futures, Industrial Arts/Technology classes will provide practical applications for them to explore career opportunities and develop problem solving abilities. Students will experience the satisfaction of seeing results from their efforts through planning, modeling, and development of real objects in any of the following Industrial Arts/Technology courses available. All Industrial Arts/Technology classes using power tools will have safety instruction and testing. An 85% or better on safety exams must be attained. A student is given three attempts to achieve proficiency.

Intro to Engineering Design, Principles of Engineering, Digital Electronics and Civil Engineering and Architecture are part of the Project Lead the Way sequence. These courses prepare students for any engineering technology program requiring a two or four year college degree. These courses provide leadership and support that will produce continuous improvement and innovation in problem solving processes to benefit people.

<table>
<thead>
<tr>
<th>710 Graphic Arts I</th>
<th>5 credit</th>
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</thead>
<tbody>
<tr>
<td><strong>Grades 10-12</strong></td>
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<tr>
<td>Students will study graphic arts, which includes both pre-press and printing techniques. These areas include: offset printing, computer typesetting, designing printing material using Microsoft Publisher, QuarkXpress software, and use of A.B. Dick offset press. Other areas covered are shooting negatives, stripping negatives, plate making, and padding. Also included in this graphics class will be designing art in the latest desktop publishing software. A minimal fee required for CDs and project material.</td>
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<table>
<thead>
<tr>
<th>711 Advanced Graphic Arts</th>
<th>5 credit</th>
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<tbody>
<tr>
<td><strong>Grades 10-12</strong></td>
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<tr>
<td><em>Prerequisite: Graphic Arts I</em></td>
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<tr>
<td>Students will develop their interests in the field of graphic art, pre-press and printing. Fundamental printing techniques covered in Graphic Arts I course will be used. The following graphic arts techniques are included: designing ads, merging photos, creating drop shadows, and designing CD covers using Adobe Photoshop software. Also included are designing layouts using Microsoft Publisher and QuarkXpress software. Other areas covered are offset printing of photographs, Independent study, and careers in the graphic arts and printing industry. A minimal fee is required for CDs and project material.</td>
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<thead>
<tr>
<th>714 Power Technology</th>
<th>5 credit</th>
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<tbody>
<tr>
<td><strong>Grades 10-12</strong></td>
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<tr>
<td>An overview of power-related careers, and useful energy resources, past and present. Students will work in the areas of: basic electricity, house wiring, small gasoline engine theory and repair, basic electronics, alternate energy, and hydraulics. Students will also study transportation, including designing and building various transportation devices.</td>
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<table>
<thead>
<tr>
<th>715 Power Technology</th>
<th>3 credit</th>
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<tr>
<td><strong>Grades 10-12</strong></td>
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<tr>
<td>The study of various energy forms, where energy comes from, and how to convert it into useful devices. Units of study include: electricity, electronic layout, alternate energy, hydraulics, robotics, transportation systems, and environmental concerns.</td>
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<thead>
<tr>
<th>731 Intro to Graphic Arts and Digital Photography</th>
<th>5 credit</th>
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<tbody>
<tr>
<td><strong>Grade 9</strong></td>
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<tr>
<td><em>A $10.00 lab fee is required, on extra fee will be charged for personal work.</em></td>
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<tr>
<td><em>A digital 35 mm camera is required.</em></td>
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<td><em>A flash card – 1 GB capacity for digital camera is required.</em></td>
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<tr>
<td>Students will have the opportunity to design projects using pre-press and printing techniques. Students will explore career opportunities and develop problem solving techniques. This will be accomplished by using Microsoft Publisher, Adobe Photoshop and Adobe InDesign. Various types of software will be used. Projects will explore professional and personal digital photography. Instruction will cover camera usage, flash card handling, and the use of all camera accessories. All projects will be printed using digital printers.</td>
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<tr>
<th>732 Photography</th>
<th>5 credit</th>
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<tbody>
<tr>
<td><strong>Grades 10-12</strong></td>
<td></td>
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<tr>
<td><em>A $10.00 lab fee is required, on extra fee will be charged for personal work.</em></td>
<td></td>
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<tr>
<td><em>A digital 35 mm camera is required.</em></td>
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<tr>
<td><em>Film, paper and chemicals are supplied.</em></td>
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<tr>
<td>Explores both professional and personal use of photography. The students will be instructed in camera handling, subject control, and the use of accessories. Darkroom procedures of developing black and white roll film, contact prints, and enlargements will be studied in depth.</td>
<td></td>
</tr>
</tbody>
</table>
723 Advanced Photography
Grades 10-12
*Prerequisite: Photography
*A $100.00 lab fee is required, an extra fee will be charged for personal work.
*A digital 35 mm camera is required.
*Film, paper and chemicals are supplied.
Following a review of developing black and white roll film and making contact prints and enlargements, the student will explore the world of digital photography and color reproduction. Students will use computer software (Photoshop 4 and Adobe Photo Shop) to produce color photographs, calendars, collages, and slide shows.

734 Intro to Engineering Design
Grades 9-12
*Prerequisite: Algebra I with a grade of "B" or higher.
The intention of this drawing course is to recreate the actual workflow experienced by professionals as they use the Inventor software. The course is a process-based approach to inventor tools, options and techniques. Each topic is presented in a logical sequence where it naturally fits in the design process of the real-world products. The student will have knowledge of methods used to produce a viable solid model part assembly in Inventor.

735 Principles of Engineering
Grades 10-12
*Prerequisite: Intro to Engineering Design.
Helps students understand the field of engineering/technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. This course also includes concerns about social and political consequences of technological change.

736 Digital Electronics
Grades 10-12
*Prerequisite: grade of "B" or higher in Intro to Engineering Design and Principles of Engineering and a grade of "B" or higher in Algebra I and Algebra II.
Students use computer simulation to learn about the logic of electronics as they design, test, and actually construct circuits and devices. Students must pass technology safety tests with an 85% or better to remain in the course.

737 Civil Engineering and Architecture
Grades 10-12
*Prerequisites: grade of "B" or higher in Intro to Engineering Design and Principles of Engineering and a grade of "C" or higher in Honors Algebra II and Honors Geometry and must be taking either Honors Trigonometry or Advanced Pre-Calculus concurrently.
This is an option for the third year Project Lead the Way (PLTW) student. This course covers all aspects of site planning, structure design and engineering, environmental impact plans and customer interaction. Computers are heavily used for both research and design.
FAMILY AND CONSUMER SCIENCES

Introduction

Family and Consumer Sciences Education prepares students for living in the 21st century. The curriculum assists both males and females in developing basic life skills for the combined role as wage earner and family member. Applied laboratory experiences, critical thinking skills, and cooperative learning are integral components of each Family and Consumer Science course.

801 Young Living
Grades 9
Students will build a foundation of life management skills by studying units in personal development, relationships, consumer skills, and foods and nutrition.

810A Child Development IA
Grades 9-12
Provides the students the opportunity to learn about the development and behavior of children from the embryonic stage to 18 months. Real Care® babies provide students with on-hand experience.

810B Child Development IB
Grades 9-12
*Prerequisite: Child Development IA
A continuation of Child Development IA. The student has the opportunity to learn about the development and behavior of children 18 months to 3 years of age. Real Care® babies provide students with on-hand experience.

811 Child Development II
Grades 10-12
*Prerequisite: Child Development IA & IB
A continuation of Child Development IB. The student has the opportunity to learn about the development and behavior of children 3 years to 5 years of age.

812 Nutrition and Food I
Grades 9-12
Learn about the science of food as you bake and cook a variety of culinary recipes. Students will explore how foods play an important part of each person’s life and how health and well-being is impacted by one’s food choices. Students will learn about food safety and sanitation in a culinary environment.

813 Nutrition and Food II
Grades 9-12
*Prerequisite: passing grade in Nutrition and Food I
Learn about the study of advanced principles and terms of nutrition, meal planning, table setting, and manners. Students will study the individual food groups through food preparation and a variety of culinary methods.

815 Multi-Cultural Experiences in Foods/Nutrition
Grades 10-12
*Prerequisite: passing grade in Nutrition and Food I and II
Students will study the cultural food habits of diverse nations based on their history, geography, and climate. The course will include social customs and communication styles of countries, in addition to the traditional food habits related to their cuisine and heritage.

821 Principles of Design
Grades 10-12
*Prerequisite: teacher recommendation
Investigates the principles and elements of design that relate to interior design, fashion design, or merchandising. Emphasis will be put on color, theory, and harmonies. Throughout the course, students’ skills will be used to create a design portfolio.

822 Textile Construction and Techniques
Grades 10-12
*Prerequisite: teacher recommendation
Students will learn the characteristics of fabrics and fibers and their uses in fashion and home products. Students will explore a variety of basic hand and machine construction techniques in practical hands-on projects. This course is recommended for students interested in careers in clothing and textiles. Students are required to purchase supplies for this class.
### 823 Needle Arts and Crafts

**Grades 9-12**

Needlecrafts and leisure arts activities will be offered to students wishing to learn skills that can be used during leisure time. In this course, students will work at their own levels from beginner to advanced, and learn new skills or improve the old ones. Materials will be provided to develop basic skills. The students will assume additional costs. Student projects may include needlepoint, embroidery, knitting, and cross-stitching.

### 825 Human Growth/Development

**Grades 11-12**

Designed for advanced students who are planning a career that deals with children, i.e., early childhood, elementary education, child psychology, developmental psychology, etc. The course covers the development of children from conception and prenatal development to infancy, childhood, and adolescence. Topics include cognitive, language, social, and emotional development.

### 826 Pregnant & Parenting Teens

**Grades 9-12**

This course provides support and information for pregnant students, fathers-to-be, and those students already parenting. Topics covered include, but are not limited to, practical applications of child development, parenting skills, discipline, nutrition, teen development, career planning, budgeting, and developing a support network.

### 829 Student Instructional Aide (SIA2)

**Grade 12**

*Special Application Required*

This is a course for seniors who have elementary education in mind, or are thinking of any career that involves working with children. Opportunities also are provided for those students desiring experience in working with the handicapped or other special needs children. Instructional seminars and laboratory experiences will be held at the high school one day each week. The other four days, students will work as assistants to teachers in local elementary schools, pre-schools, and other community service areas.

### 830 Student Instructional Aide (SIA3)

**Grade 12**

*Special Application Required*

This is a course for seniors who have elementary education in mind, or are thinking of any career that involves working with children. Opportunities are provided for those students desiring experience in working with the handicapped or other special needs children. Instructional seminars and laboratory experiences will be held at the high school one day each week. The other four days, students will work as assistants to teachers in local elementary schools, pre-schools, and other community service areas.
ART

Introduction

Art classes are designed as introductions to and exploration of a variety of studio settings and are split into exploration of 2 dimensional and 3 dimensional media. Subsequent art classes build on skills from previous classes. Upper level art classes will prepare students for continued artistic success throughout their high school tenures. All art classes will require creative thought and development of drawing skills.

919 2D Art I
Grades 9-12
An introduction to the foundation of fine art techniques. It will emphasize the elements of design primarily with focus on two-dimensional work. Grading will be based upon studio work and reading and writing assignments. Studio experiences will include drawing, painting, design, lettering, and knowledge of perspective. Major units of study will include history of the Middle Ages and the Italian Renaissance.

919 3D Art I
Grades 9-12
An introduction to the foundation of the fine art of craft and sculpture. It will emphasize the elements of design primarily with focus on three-dimensional design. Grading will be based upon studio work and reading/writing assignments. Studio experiences may include ceramics, fiber design, book making, paper making, printmaking, and papier-mâché.

913A Intro to Art
Grades 10-12
An entry-level gateway class in fine arts and craft design for students with no prior art experience. Students will explore the elements and principles of art through hands-on art making. Emphasis will be placed on introductory skill building, basic technique, art theory, art history, craftsmanship and safety with regard to studio habits using both 2 dimensional and 3 dimensional media. Students will be exposed to a variety of media such as graphite, paint, ceramics, and printmaking.

914A Art Major I
Grade 10-12
*Prerequisite: completion of Intro to Art and teacher recommendation
An intermediate program in fine arts and craft design, which explores sequential problems in a variety of art mediums. Studio experiences are designed to build skill and technical ability of the serious art student. Emphasis will be placed on continued skill building, technique, art theory, art history, craftsmanship and safety with regard to studio habits using both 2 dimensional and 3 dimensional media. Studio experiences will include graphite, color pencil, pastel, acrylic, printmaking, and ceramics.

916 Art Major II
Grade 10-12
*Prerequisite: completion of Art Major I and teacher recommendation
An advanced intermediate program in fine arts and craft design. Students continue to explore personal artistic development through analytical problem solving. Experimentation and personal expression is encouraged. Studio experiences are designed to build skill and technical ability of the serious art student. Emphasis will be placed on continued skill building, technique, art theory, art history, craftsmanship and safety with regard to studio habits using both 2 dimensional and 3 dimensional media. Studio experiences may include: graphite, color pencil, pastel, acrylic, printmaking, and ceramics.

915A Art Major III
Grade 11-12
*Prerequisite: completion of Art Major II and teacher recommendation
An advanced program in fine arts and craft design. Students explore personal artistic development through analytical problem solving. Experimentation and personal expression is encouraged. Studio experiences are designed to enhance skill and technical ability of the serious art student. Emphasis will be placed on skill building, technique, art theory, art history, critical experience, craftsmanship and safety with regard to studio habits using both 2 dimensional and 3 dimensional media. Studio experiences may include: graphite, color pencil, pastel, acrylic, printmaking, and ceramics.

919 Adv Portfolio Preparation
Grade 12
*Prerequisite: teacher recommendation
The standards and expectations for portfolio students are for high performance level achievers interested in furthering their art education at a post secondary institute. Students are required to produce a portfolio of 15 to 20 of their best and most recent works to be used during the portfolio review process. Students will participate in workshops held at the Gogol Center for the Arts which may include glass blowing, glass fusion, raku, printmaking, and jewelry design. Presentations by college recruiting representatives are available.
921 Photoshop I

**Grades 9-12**

Centers on learning how to use the Mac as well as basic computer functions. Students also learn how to use and apply tools in Photoshop to retouch images and create their own pixel based artworks/images. Students are also exposed to art history, aesthetics and criticism. Some projects may include: basic photo retouching, contour line drawings, color and shape images, celebrity veggie fruit faces, 1 point perspective, Adinkra cloth designs, and various self portraits.

922 Photoshop II

**Grades 10-12**

*Prerequisite: completion of Photoshop I and teacher recommendation*

Picks up where Photoshop I left off. Students learn more advanced techniques when using Photoshop. Students also learn the difference between pixel based and vector based images. Students learn how to create basic graphic images using vectors. Students are also exposed to art history, aesthetics and criticism. Some projects will include: value on forms, value chess piece, 2 point perspective, political cartoon, spot the difference art history puzzles, digital landscape painting, vector graphics and vector self portraits.

923 Illustrator

**Grades 11-12**

*Prerequisite: completion of Photoshop II and teacher recommendation*

Centers on learning how to navigate through the Illustrator program and use the many tools to create graphic works of art. This class takes a look at many aspects of graphic design. Along with production students are exposed to art history, aesthetics and criticism in progress and at completion of projects. Some projects will include: vector fruit bowls and carved pumpkins, vector pop art, children's book illustrations, district holiday card design, various typography projects and logo designing.

924 Digital Design Studio

**Grades 12**

*Prerequisite: completion of Illustrator and teacher recommendation*

Students are given an assignment and a due date and work independently and competitively. In this class students work with Illustrator and learn how to navigate through Flash. In the Illustrator portion of the class students are set up in a competitive, work type environment where they are designing, developing projects, and working to outdo fellow classmates by coming up with the best design. In the Flash portion of the class, students learn how to create simple animations using Flash. Students are encouraged to create animations that outdo their classmates. Along with production students are exposed to art history, aesthetics and criticism in progress and at completion of projects. Some projects include: package/product design and development, poster design, typography, designing the cover for the commencement ceremony, creating 3-D images on the computer and applying graphics to those images and a variety of animation techniques.

925 Craft Design

**Grades 10-12**

*Prerequisite: completion of Intro to Art*

An intermediate program in craft design and is geared for students interested in continuing to work with handmade media. Emphasis will be placed on continued skill building, technique, art theory, art history, craftsmanship and safety with regard to studio habits using primarily 3 dimensional media such as: ceramics, weaving, basketry, jewelry, printmaking, bookbinding.

927 Sculpture

**Grades 10-12**

*Prerequisite: completion of Intro to Art*

An intermediate program in sculpture and is geared for students interested in continuing to work in 3 dimensions. Emphasis will be placed on continued skill building, technique, art theory, art history, craftsmanship and safety with regard to studio habits using primarily 3 dimensional media such as: wood, plaster, ceramics, papier-mâché, wire, and assemblage.

928 Ceramics

**Grades 10-12**

*Prerequisite: completion of Intro to Art*

An intermediate program in ceramics and is geared for students interested in continuing to work with clay. Emphasis will be placed on continued skill building, technique, art theory, art history, craftsmanship and safety with regard to studio habits. Students will explore hand-building techniques such as pinch pots, coiling, and slab construction, as well as working with wheel throwing.
This course is designed for students who plan on attending postsecondary education in the art field. Completed portfolio will address areas of Breadth, Concentration and Quality in their artistic development. Students will explore artistic issues through a variety of means, such as drawing, painting, printmaking, design or mixed media. Students will develop technical skills and become familiar with the functions of visual elements to create an individual portfolio of work for evaluation at the end of the course. The completed portfolio should illustrate a range of ideas and approaches to art-making, multi-perspective investigation of student-selected topics and represent high quality work with respect to form and content. All students electing to take AP Studio Art are required to take the AP Exam in May and may choose to submit work for Drawing or 2D design.
### MUSIC

**Introduction**

The Music Department provides a number of both performance-based and music enrichment classes. A number of opportunities are offered for students to express their music through our band, chorus and orchestra classes. Please note that many classes have pre-requisites and/or teacher approvals that are needed before applying for a class. For students who are interested in gaining a broader understanding of music, a number of music enrichment classes are offered. Students who are looking to pursue a music career or want a deeper understanding about music will have the opportunity to enroll in some of more intensive classes that cover music theory, composition, and analysis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Grade Levels</th>
<th>Credits</th>
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<tbody>
<tr>
<td>933</td>
<td>Advanced Music Major I</td>
<td>10-12</td>
<td>1 credit</td>
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<tr>
<td>934</td>
<td>Advanced Music Major II</td>
<td>10-12</td>
<td>1 credit</td>
</tr>
<tr>
<td>935</td>
<td>Advanced Music Major III</td>
<td>11-12</td>
<td>1 credit</td>
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<tr>
<td>936</td>
<td>Music Appreciation</td>
<td>9</td>
<td>1 credit</td>
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<tr>
<td>938</td>
<td>Orchestra/Choir</td>
<td>9-12</td>
<td>1 credit</td>
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<tr>
<td>939</td>
<td>Band/Chorus</td>
<td>9-12</td>
<td>1 credit</td>
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<td>942</td>
<td>Concert Choir</td>
<td>9-12</td>
<td>1 credit</td>
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<tr>
<td>945</td>
<td>Piano Class I</td>
<td>10-12</td>
<td>5 credits</td>
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</table>

*Prerequisite: teacher recommendation
A music reading, composition and history course. Students will learn to read and write music, sight sing, and take melodic and rhythmic dictation. The course will include listening and music from the Baroque period, as well as experiences with music of non-semester cultures.

*Prerequisite: Music Major I
Students will work with multiple choirs in reading and writing. Advanced sight singing will include minor keys and compound meters. Harmonic dictation will be studied. The course will include listening and score analysis of Classical and Romantic literature in a variety of musical genres. Music from non-semester cultures will be analyzed.

*Prerequisite: Music Major II
Students will study chords, their inversions and relationships, and proper voice leading. Students will sight sing and take dictation in modes, as well as compound meters and all major and minor keys. Students will be required to harmonize melodies and write simple polyphony. Music literature from the 20th Century will be studied by listening, analysis and score reading.

*Prerequisite: audition
Students will spend several days each week preparing both orchestral and choral music. Students taking this course are required to participate in all after-school activities of both groups. This includes after-school rehearsals and performances. Sectional rehearsals will be held in conjunction with this class, one period per week, on a rotating basis.

*Prerequisite: audition
Students will spend several days each week preparing both band and choral music. Students taking this course are required to participate in all after-school activities for both groups. This includes participating in after-school marching band, concert band or choir rehearsals and performances. Sectional rehearsals will be held in conjunction with this class, one period a week, on a rotating basis.

*Prerequisite: audition
Students, who like to sing in chorus, should consider enrolling in concert choir. Many choral works, ranging from traditional to more modern works are studied. Students will be required to attend a minimal amount of after-school rehearsals and performances.

*Prerequisite: audition
Designed to develop basic keyboarding skills and piano performance. Students will use pianos in class and are required to practice outside of class. No piano experience is required, however, students must be able to read music. A basic music reading examination is required for course entry. Students may be asked to groom their fingernails for proper playing technique.
946 Piano Class II
Grades 10-12
*Prerequisite: Piano Class I or an audition
A continuation of developing piano skills as described above. Students may be asked to groom their fingernails for proper playing technique.

947 Band
Grades 9-12
*Prerequisite: audition
includes preparation and performance of music for marching and concert band. Students taking this course are required to participate in after-school marching band rehearsals and performances. Sectional rehearsals will be held in conjunction with this class, one period a week, on a rotating basis.

948 Symphony Orchestra/ Symphonic Band
Grades 9-12
*Prerequisite: audition
Students will spend several days each week in preparing both band and symphonic orchestra music. Students taking this course are required to participate in all after-school activities for both groups. This includes participating in after-school marching band, concert band, and orchestra rehearsals or performances. Sectional rehearsals will be held in conjunction with this class, one period a week, on a rotating basis.

949 String Orchestra
Grades 9-12
*Prerequisite: audition
Requires preparation and performances of significant orchestral music. Students taking this course are required to participate in all after-school activities. This includes participating in after-school symphonic orchestra and string orchestra rehearsals and performances. Sectional rehearsals will be held in conjunction with this class, one period a week, on a rotating basis.

953 Songwriting Class
Grades 10-12
*Prerequisite: teacher recommendation
Will explore the fundamental musical and lyrical concepts of songwriting. Instruction will focus on writing hooks, melodies, and chord progressions. Additional topics covered include a brief history of songwriting, the production of a song demo recording, and the business of songwriting. Students taking this class, you should be able to play a choral instrument (for example: guitar, piano, etc.) and/or have a strong singing ability.

954 Voice Class for Musical Theatre
Grades 10-12
*Prerequisite: Concert Choir or teacher recommendation
Designed for anyone interested in singing Musical Theatre (Broadway) songs. Students will sing traditional and modern songs written for musicals as well as learn audition techniques and study the brief musical theatre history.

955 World Music Beats
Grades 10-12
Students will learn about a variety of world cultures by experiencing each culture's unique musical traditions. The class will focus on five main cultures/styles of music (African, Asian, Middle Eastern, Celtic and Latin), and their role in preserving each culture's distinct heritage. Emphasis will be placed on performance through the use of percussion instruments and each student will participate.

956 Piano Class III
Grades 11-12
*Prerequisite: Piano Class I and II with a grade of "C" or higher or teacher recommendation
Students will study higher level piano techniques and pieces. This course will include a more extensive study in scales, chords and advanced piano repertoire than piano class I and II.
After School Co-Curricular Activity

Symphony Orchestra
*Prerequisites: audition

- String Players - Member of String Orchestra
- Wind and Percussion - Member of Band
- Keyboard - Member of Band, Chorus, or Orchestra

This course involves preparation and performances of significant symphonic orchestra music. Participants must attend all after-school rehearsals and concerts.

After School Co-Curricular Activity

Jazz Band
*Prerequisites: audition

- Bass and Guitar - Member of Band and/or Orchestra
- Wind and Percussion - Member of Band
- Keyboard - Member of Band, Chorus or Orchestra

This course involves preparation and performance of big band jazz.

After School Co-Curricular Activity

Select Choir
*Prerequisites: audition

This is an auditioned choir of singers from courses 938, 939, and 942. All rehearsals are after school! First semester, the choir sings madrigals and other music composed for small choirs. Second semester, the choir performs jazz and popular music.

After School Co-Curricular Activity

String Ensemble
*Prerequisites: audition

This is an audition chamber strings group of string players enrolled in courses 938, 948 and 949. All rehearsals are held after school. Students perform a variety of musical styles ranging from classical to more contemporary works. String ensemble performs actively both at school and in community events throughout the year.
MISCELLANEOUS

LIBRARY

959 Library

<table>
<thead>
<tr>
<th>Grades 9-12</th>
<th>Fall</th>
<th>.5 credit</th>
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</table>
*Special Application Required
Although volunteers staff most school libraries, students may elect library as a regular course. The course includes basic library skills in filing, shelf reading, processing books, and working at the circulation desk and in the computer resource room. Students' grade will be based on attendance, class participation, and willingness to perform duties.

960 Library

<table>
<thead>
<tr>
<th>Grades 9-12</th>
<th>Spring</th>
<th>.5 credit</th>
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*Special Application Required
Although volunteers staff most school libraries, students may elect library as a regular course. The course includes basic library skills in filing, shelf reading, processing books, and working at the circulation desk and in the computer resource room. Students' grade will be based on attendance, class participation, and willingness to perform duties.

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC)

970 JROTC-Leadership I

<table>
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<th>1 credit</th>
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*This will meet the student's physical education requirement*
JROTC (Junior Reserve Officer Training) is a four-year course designed to prepare the students for their chosen careers after high school. Students may enter at any grade level. The course also teaches leadership and personal skills through drill and discipline. Wearing of a military uniform once a week, while following Marine Corps grooming standards, is required, i.e. length of hair/no facial hair, shaving once a week is a requirement. It includes extensive physical training (twice a week). Students with medical problems such as asthma or heart conditions should not enroll in this course. Although the United States Marine Corps sponsors the program, there is no military obligation. The course offers extracurricular activities, such as Color Guard, Drill Team, and Marisanship Team.

971 JROTC-Leadership II

<table>
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<tr>
<th>1 credit</th>
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</table>
*Prerequisite: JROTC-Leadership I*
*This will meet the student's physical education requirement*
The course description is the same as Leadership I except that leadership classes are more in-depth and students are expected to play a larger role in the training of Leadership I students. This course builds on the foundations gained in the Leadership I course.

972 JROTC-Leadership III

<table>
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<tr>
<th>1 credit</th>
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</table>
*Prerequisite: JROTC-Leadership II*
*This will meet the student's physical education requirement*
The course description is the same as Leadership I except that students will be required to fill billets within the JROTC organization, and increased participation in after school activities is encouraged.

973 JROTC-Leadership IV

<table>
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<th>1 credit</th>
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</table>
*Prerequisite: JROTC-Leadership III*
*This will meet the student's physical education requirement*
The student will be assigned to JROTC I classes. The student will be expected to teach classes and lead physical fitness exercises. Emphasis in this class will be on planning, leadership, and development of the freshman student.
ADVISORY

**000 Advisory**

**Grades 9**
Covers a wide variety of topics such as bullying and good decision-making skills as well as career and educational planning. Students taking Algebra I will receive help preparing for the Keystone Algebra I exam.

**000 Personal Future Planning**

**Grades 10-12**
Covers a wide variety of topics to prepare students for life inside and outside of high school. Grade-level based topics include approaches and techniques for education, home, friends, work, community, and other difficulties and choices teens and young adults face in the world today.

SERVICE TO OUR COMMUNITY

**Service Learning/Volunteering**

**Grades 9-12**
Credit earned will be determined by logbook entries, reflections, and the following minimum time spent volunteering/service-learning:

- 30 hours = .25 credit
- 60 hours = .50 credit
- 90 hours = .75 credit
- 120 hours = 1.00 credit

Service to our community allows students in grades 9-12 to receive credit for volunteering their time and talents to a variety of community needs. The amount of credit is dependent upon the hours served as a volunteer both within the school time frame and outside in the community on the student’s personal time. All students who participate in this program must keep a log of their service date, activity, time, reflection, and signature of the person in charge. Students must fill out appropriate registration materials with the faculty advisor prior to volunteering.

RHS INDEPENDENT STUDY PROGRAM

**RHS Independent Study Program**

**Grades 11-12**
Independent study is an option, not an alternative curriculum. Students work independently, according to a written agreement and under the general supervision of a credentialed teacher and school counselor. While independent study students follow the district-adopted curriculum and meet the district graduation requirements, independent study offers flexibility to meet individual student needs, interests, and styles of learning.

Students in independent study work closely with their teachers, in one-on-one meetings or small group instruction, and can be a highly personalized form of instruction. Independent study also offers a high degree of flexibility and individualization, so it can serve a wide range of students including:

- Students who are self-motivated.
- Gifted students desiring more challenge and wishing to accelerate their studies.
- Students who face particular challenges—such as health issues or the need to work—that make classroom attendance difficult.
- Students who, for a variety of reasons, have fallen behind in their studies and need targeted instruction to fill in gaps in their learning or make-up credits.
- Students who want an individualized, interdisciplinary approach that allows them to delve more deeply into areas of special interest.
EMPLOYMENT AND TRAINING PROJECT (ECAP)

Grade 12 and select Grade 11 students
A learning alternative for twelfth-grade students. After attending morning classes, these students are released from school to take part in a supervised Cooperative Education Work Experience. There is a required classroom theory portion which meets every day for one period. The theory class provides information on job seeking, acquiring a job, and keeping a job. Laws that affect the young worker are discussed. The course gives many suggestions for personal living as it affects the worker and his/her work. Basic skills and knowledge in job-related math, oral and written communication, and fundamentals of career economics will be reinforced. Discussions will be held on topics such as pay and fringe benefits, time planning, money management, and job safety. Students will also learn to complete local, state, and federal tax forms. The work-experience part of the program requires the student to work in an approved job during the school week throughout the entire school year. Wage reports and weekly job-duty logs are required. A certified teacher/coordinator visits the student in the work environment and offers guidance and suggestions for improving work performance. The employer also evaluates the student. This evaluation, in conjunction with the classroom performance, becomes the basis for the student’s grade. Students must apply with the ECAP instructor prior to enrollment.

EUROPEAN EXCHANGE PROGRAM

Grades 9-12
*Special application required
Student applicant does not need to be enrolled in a German class

The German Exchange Program is a cultural exchange that allows students to travel to Europe and, in return, to host a German student during the school year. The program is designed to be a cultural exchange and is supported by both the City of Reading and its Sister City, Reutlingen, Germany. Students will stay with a family in Germany and attend school for a two-week period. During this time, they will have the opportunity to travel and visit historical and cultural places of interest. The following semester, Reading High School students become hosts to their German partners.

UPWARD BOUND

Grades 9-12

Upward Bound programs allow students in grades 9-12 to receive elective credit for participating in the program. The amount of credit is dependent upon the hours served as a participant both within the school time frame and outside in the community on personal time. All students who participate in an Upward Bound program must keep a log of their participation date, activity, time, reflection, and signature of the person in charge. Prior to participation, students must register with the faculty advisor. The elective credit will be determined by logbook entries, reflections and the following minimum time spent participating in an Upward Bound program.

- 30 hours = .25 credit
- 60 hours = .50 credit
- 90 hours = .75 credit
- 120 hours = 1.00 credit
SPECIAL EDUCATION SUPPORT

Under Pennsylvania and Federal laws, a student who meets the eligibility requirements for special education has the right to participate in the general education curriculum in the regular education classroom in the Least Restrictive Environment (LRE). The program of support and services is described in the student's Individualized Education Program (IEP) providing a Free and Appropriate Public Education (FAPE) for a student with a disability begins with the consideration of services in the LRE. The organization and delivery of special education services are planned in a flexible and responsive manner to accommodate the student's special needs of eligibility without removing the student, unnecessarily, from the general education curriculum in the regular education classroom. Supplementary aids and services received by the student are dependent on his/her individual needs. The Reading School District promotes inclusion opportunities for all students.

Students receiving special education services shall participate in the general education curriculum in the regular education classroom to the maximum extent appropriate, which may be accommodated, adapted, or modified. The district does provide a full continuum of services and programs. Eligible students may be provided instruction through supplemental curricula. Service program options may be considered when the program of study needs to be intensified in order to meet the student's overall needs.

Transition planning begins at age 14. The IEP team will decide what kinds of courses will prepare the student for life after high school through the transition planning process. The IEP team, including the student and parent, will plan transition activities to prepare the student for post-high school experience. Discussions during transition planning include: college or post-high school planning; employment exploration, and independent living; including recreation or leisure activities. The transition planning includes consideration of the types of courses the student will take during high school. Early planning encourages a coordinated effort between the present and future goals of the student. Students are encouraged to prepare for a post-high school education, whether it is college or a trade/technical school. Students who are considering college are encouraged to take the PSAT and SAT assessments, with or without accommodations. Some students may elect a vocational curriculum and attend the Reading-Muhlenberg Career and Technology Center (RMCTC), which offers a range of programs.

All students receiving special education services are guaranteed the right for the opportunity to earn a high school diploma. To be awarded a diploma, the eligible student must successfully complete all required courses and credits, as well as meet performance standards on assessments. An IEP team may determine that an eligible student will graduate through their IEP goals.

MULTIPLE DISABILITIES
GRADES 9-12

Introduction

The multiple disabilities curriculum emphasizes maximizing a student’s independence in the area of daily living. Instruction in self help skills, social and recreation skills, basic academics, vocational/household skills, fine motor skills, gross motor skills and communication skills provide students with the foundation that they need in order to increase their independence in the activities of daily living.

8711 Self Help Skills 1 credit
Assists students in developing their independence in completing personal care tasks. Students will receive instruction and support as they increase their skills in the areas of personal hygiene, eating and self care.

8713 Social and Recreation Skills 1 credit
Explores a variety of leisure activities in order to enhance a student's social and recreational skills. Students engage in developing socially appropriate ways of interacting with people around them, as they are presented with a multitude of recreational activities.

8714 Basic Academics 1 credit
Students will engage in activities that will assist them with making connections to illustrations and text. These activities will provide students with a strong foundation in order to enhance their reading and writing skills. Connecting letters and words to pictures and actions is just one example of the many activities that will be presented to students within this course.

8715 Fine Motor Skills 1 credit
Focuses on developing a student’s manual dexterity. Instruction is provided to students in order to increase their independence with manual tasks that will enhance their skills in personal care and work related activities.
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<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>8716</td>
<td>Vocational / Household Skills</td>
<td>1</td>
</tr>
<tr>
<td>8717</td>
<td>Gross Motor Skills</td>
<td>1</td>
</tr>
<tr>
<td>8718</td>
<td>Communications Skills</td>
<td>1</td>
</tr>
<tr>
<td>830</td>
<td>Adaptive Fitness</td>
<td>2nd/yr</td>
</tr>
</tbody>
</table>

**LIFE SKILLS SUPPORT**

**Grades 9-12**

**Introduction**

The life skills curriculum emphasizes maximizing a student's independence in the areas of daily living. Instruction in functional academics and independent living skills provides students with the opportunity to enhance their independence while also preparing them for a smooth transition from school life to adulthood. Students are provided instruction in vocational skills and have the opportunity to utilize these skills within their community.

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<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>8701</td>
<td>Pre-Employment Skills</td>
<td>1</td>
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<tr>
<td>8702</td>
<td>Employment Language Arts</td>
<td>1</td>
</tr>
<tr>
<td>8703</td>
<td>Employment Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>8704</td>
<td>Health and Safety</td>
<td>1</td>
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<tr>
<td>8706</td>
<td>Reading</td>
<td>1</td>
</tr>
<tr>
<td>8707</td>
<td>Mathematics</td>
<td>1</td>
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</tbody>
</table>

**8701 Pre-Employment Skills**

Provides students with instruction on the skills necessary to obtain and sustain employment. This course is a continuation of skills presented within the Employment Math course and the Employment Language Arts course. Some skills included are identification of map symbols, following written and verbal directions, and various fine motor and gross motor sample work activities. Students will receive instruction on following directions, completion of forms and also proper workplace etiquette. How to access appropriate agencies for assistance in job selection and assistance from job coaches is also highlighted in this course.

**8702 Employment Language Arts**

Provides students with instruction on how literacy is utilized within the community and the world of work. Students will receive instruction on effective oral and written communication as well as various components of reading vocabulary relating to the community as well as work life. Topics such as identifying survival signs, basic map reading skills, as well as employment/job application vocabulary and writing skills are addressed within this course.

**8703 Employment Mathematics**

Assists students in developing an understanding of numbers and how they systematically relate to the world around them. Students will learn to make sense of numbers utilizing manipulative materials such as money, clocks and schedules in order to enhance their understanding of how math is utilized in activities of everyday living and the world of work. Money management and measurement also are addressed in this course.

**8704 Health and Safety**

Focuses on identification and knowledge of self care skills at home, in the community, and at the workplace. Components of this course include hygiene, nutrition, self-advocacy and safety within the community and the workplace.

**8706 Reading**

Provides students with the opportunity to enhance their literacy skills. Students will participate in a research based reading program in order to further develop reading readiness, phonemic awareness, and decoding and comprehension skills.

**8707 Mathematics**

Provides students with explicit instruction based on their assessed math level. Focus is placed on further development of the students' basic math skills. This component is linked with Employment Math.

**830 Adaptive Fitness**

Provides students with an opportunity to engage in physical education with the adaptations and modifications necessary in order to enhance their participation in lifelong fitness.
AUTISTIC SUPPORT

GRADERS 9-12

Introduction

The autistic support program is designed for students with disorders on the autistic spectrum. Students are provided instruction in their core subjects at their individual levels. Students also will receive instruction on vocational skills and have the opportunity to utilize these skills within their community.

8701 Pre-Employment Skills

Provides students with instruction on the skills necessary to obtain and sustain employment. This course is a continuation of skills presented within the Employment Math course and the Employment Language Arts course. Some skills included are identification of map symbols, following written and verbal directions, and various fine motor and gross motor sample work activities. Students also will receive instruction on following directions, completion of forms, and also proper workplace etiquette. How to access appropriate agencies for assistance in job selection and assistance from job coaches is also highlighted in this course.

8702 Employment Language Arts

Provides students with instruction on how literacy is utilized within the community and the world of work. Students will receive instruction on effective oral and written communication as well as various components of reading vocabulary relating to the community as well as work life. Topics such as identifying survival signs, basic map reading skills, as well as employment/job application vocabulary and writing skills are addressed in this course.

8703 Employment Mathematics

Assists students in developing an understanding of numbers and how they systematically relate to the world around them. Students will learn to make sense of numbers utilizing manipulative materials such as money, clocks, and schedules in order to enhance their understanding of how math is utilized in activities of everyday living and the world of work. Money management and measurement are also addressed in this course.

8704 Health and Safety

Focuses on identification and knowledge of self care skills at home, in the community, and at the workplace. Components of this course include hygiene, nutrition, self-advocacy, and safety within the community and the workplace.

8705 Reading

Provides students with the opportunity to enhance their literacy skills. Students will participate in a research based reading program in order to further develop reading readiness, phonemic awareness, and decoding and comprehension skills.

8706 Mathematics

Provides students with explicit instruction based on their assessed math level. Focus is placed on further development of the students' basic math skills. This component is linked with Employment Math.

33.00 Adaptive Fitness

Provides students with an opportunity to engage in physical education with the adaptations and modifications necessary in order to enhance their participation in lifelong fitness.

930D Listening Concepts in Music

Provides students with an opportunity to increase their listening skills as they pertain to music.

650 Adaptive Keyboarding

Provides students with an opportunity to learn how to operate a keyboard.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>926D</td>
<td>Survival/ Social Living Skills</td>
<td>1 credit</td>
</tr>
<tr>
<td>908 General Art</td>
<td>Provides students with an opportunity to increase their knowledge and enjoyment of art.</td>
<td>1 credit</td>
</tr>
<tr>
<td>968 AM/PM Work Experience</td>
<td>Provides students with special needs the opportunity to participate in work experience as it relates to the student's interest. Each work experience will provide the student with an opportunity to learn in a real work situation outside of the classroom. A willingness to learn and to work is essential to the success of this course.</td>
<td>1-2 credits</td>
</tr>
<tr>
<td>968PV Pre-Vocational Training</td>
<td>Provides students with instruction on the necessary skills in order to obtain and sustain employment. Students will receive instruction on identifying vocational interests and careers within their area of interest. Job seeking skills, completion of employment paperwork and workplace etiquette are areas that are highlighted in this course.</td>
<td>1-2 credits</td>
</tr>
<tr>
<td>844A</td>
<td>Reading 11/12</td>
<td>1-2 credits</td>
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</table>

**Special Education Electives**
ENGLISH AS A SECOND LANGUAGE (ESL) PROGRAM

Reading High School’s English as a Second Language (ESL) program is for students who have been identified as English Language Learners (ELLs) based on the criteria set forth by the Pennsylvania Department of Education. ESL instruction is an academic discipline that is designed to teach social and academic language skills as well as the forms and functions of the English language. The goals of the program are to increase and attain English proficiency as well as to achieve academic success in all content areas. It involves teaching listening, speaking, reading, and writing at appropriate developmental and proficiency levels with little or no use of the native language. ESL courses provide standards-based instruction based on the Pennsylvania Academic Standards, Common Core Standards, and the Pennsylvania English Language Proficiency Standards.

Students are placed in appropriate ESL courses based on their English proficiency levels as measured by the WIDA ACCESS for ELLs assessment.

Sheltered (MI) content classes within the ESL program are offered for students at the entering and emerging levels of English language proficiency. These courses are taught by certified content teachers with knowledge of second language acquisition. They use grade-level standards for core content classes, however, the language is sheltered to provide comprehensible input for ELLs. Some students at the developing stage of proficiency may also find it appropriate to register for sheltered content classes, but may only register with the recommendation of the ESL teacher.

ESLA - ESL ENGLISH 9
Grade 9
Designed to develop English across all four language domains of listening, speaking, reading and writing, Sheltered English instruction is used to develop oral and literacy proficiency with intense instruction of vocabulary, language forms and functions, literacy and writing using a variety of instructional strategies. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Students acquire additional knowledge and understanding of how the language looks and sounds. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

ESLRB - ESL ENGLISH 9
Grade 9
Designed for English Language Learners who demonstrate the ability to communicate with increasing ease in most social and academic situations. Comprehension of academic content is increased through a variety of means, such as the use of demonstrations, visual aids, hands-on activities, and modified (sheltered) English. Comprehension is also increased by building on learner’s prior knowledge and language through discussion, brainstorming, use of graphic organizers and other pre-reading and pre-writing strategies. Expressive language is enhanced by providing students opportunities to explain reasoning, justify answers and write essays and reports. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

ESLDA - ESL ENGLISH 10
Grade 10
Designed to develop English across all four language domains of listening, speaking, reading and writing, Sheltered English instruction is used to develop oral and literacy proficiency with intense instruction of vocabulary, language forms and functions, literacy and writing using a variety of instructional strategies. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Students acquire additional knowledge and understanding of how the language looks and sounds. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

ESLDB - ESL ENGLISH 10
Grade 10
Designed for English Language Learners who demonstrate the ability to communicate with increasing ease in most social and academic situations. Comprehension of academic content is increased through a variety of means, such as the use of demonstrations, visual aids, hands-on activities, and modified (sheltered) English. Comprehension is also increased by building on learner’s prior knowledge and language through discussion, brainstorming, use of graphic organizers and other pre-reading and pre-writing strategies. Expressive language is enhanced by providing students opportunities to explain reasoning, justify answers and write essays and reports. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.
ESL11A - ESL ENGLISH 11

Grade 11

Designed to develop English across all four language domains of listening, speaking, reading and writing. Sheltered English instruction is used to develop oral and literacy proficiency with intense instruction of vocabulary, language forms and functions, literacy and writing using a variety of instructional strategies. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. They acquire additional knowledge and understanding of how the language looks and sounds. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

ESL11B - ESL ENGLISH 11

Grade 11

Designed for English Language Learners who demonstrate the ability to communicate with increasing ease in most social and academic situations. Comprehension of academic content is increased through a variety of means, such as the use of demonstrations, visual aids, hands-on activities, and modified (sheltered) English. Comprehension is also increased by building on learner’s prior knowledge and language through discussion, brainstorming, use of graphic organizers and other pre-reading and pre-writing strategies. Expressive language is enhanced by providing students opportunities to explain reasoning, justify answers and write essays and reports. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit towards graduation requirements.

ESL12A - ESL ENGLISH 12

Grade 12

Designed to develop English across all four language domains of listening, speaking, reading and writing. Sheltered English instruction is used to develop oral and literacy proficiency with intense instruction of vocabulary, language forms and functions, literacy and writing using a variety of instructional strategies. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. They acquire additional knowledge and understanding of how the language looks and sounds. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

ESL12B - ESL ENGLISH 12

Grade 12

Designed for English Language Learners who demonstrate the ability to communicate with increasing ease in most social and academic situations. Comprehension of academic content is increased through a variety of means, such as the use of demonstrations, visual aids, hands-on activities, and modified (sheltered) English. Comprehension is also increased by building on learner’s prior knowledge and language through discussion, brainstorming, use of graphic organizers and other pre-reading and pre-writing strategies. Expressive language is enhanced by providing students opportunities to explain reasoning, justify answers and write essays and reports. The students read a variety of texts, write in response to literature and learn to use specific strategies to support their understanding of a range of texts. Placement in sections is based on proficiency levels as measured by the Pennsylvania Department of Education designated English level proficiency test and is made by the English Language Acquisition Department. Students who take this course satisfy one English credit towards graduation requirements.

Students enrolled in ESL may also be enrolled in Read 180 based on the Scholastic Phonics Inventory (SPI):

READ180 Reading

Focuses on improving reading comprehension skills, accompanied by vocabulary study and writing skills that are needed to be more successful in academic areas. The READ 180 program will be used as the main reading component of this course. This course should be taken by those ELLs who demonstrate a need for this program based on the Scholastic Reading Inventory (SRI).

3 credits

50
INTERNATIONAL SCHOOL

The International School is a one-year transition program designed to address the needs of students who are new to the country or the district and who have limited English proficiency. The goal of the International School is to provide students a positive and culturally responsive environment to ease transition into participation in core academic classes required for graduation. Students in this program receive ESL I, mathematics, science, and social studies, and one course of reading for English Language Learners. International School instruction includes modified content and assessment accommodations (as mandated). Additionally support is provided oral language and literacy development. The program is available for students who are identified as eligible at the time of enrollment. For more information, contact the ELA Testing Center staff members at 610-370-5640 ext 60116.

ESL 1

2 credits

Designed for students who are at the ENTERING level of English language proficiency. This level of ESL is provided for second language learners who are new to US schools and have limited or no understanding of English. Instruction includes culturally responsive teaching using the cultural knowledge, prior experiences, and performance styles of diverse students to make learning more appropriate and effective for them. Sheltered English instruction is used to develop oral and literacy proficiency with intensive instruction of vocabulary, language forms and functions, literacy and writing using a variety of instructional strategies. Students are encouraged to respond in English using pictorial or graphic representation of the language, words, phrases, or chunks of language when information is presented with one-step commands, directions, WH-questions, or statements with visual and graphic support. Curriculum is based on Pennsylvania Academic Standards, Common Core Standards as well as the PA English Language Proficiency Standards: 1. English language learners communicate in English for Social and Instructional purposes within the school setting; and 2. English language learners communicate information, ideas, and concepts necessary for academic success in the content area of Language Arts. Students who take this course satisfy one English credit and one elective credit towards graduation requirements.

SYSTEM 44

1 credit

The ELA SYSTEM 44 course focuses on improving phonemic awareness and reading comprehension skills, accompanied by vocabulary study and writing skills, which are needed to be successful in academic areas. The SYSTEM 44 program will be used as the main reading component of the course. It should be taken by those newcomer ELLs who demonstrate a need for this program based on the Scholastic Phonics Inventory (SPI).
READING MUILENBERG CAREER & TECHNOLOGY CENTER

The Reading Muhlenberg Career & Technology Center (RMCTC) is designed to be an extension of the existing programs of the secondary schools of Reading and Muhlenberg School District. The basic purpose of the RMCTC is to broaden and enrich the secondary school curricula to include career and technology education programs of study for the students who wish to prepare for the world of work in high school, and teach basic occupational skills and knowledge to qualify the student for entry-level employment in their chosen occupational field. Students may also select career technology education as a springboard into further education at the post-secondary level. Many programs at RMCTC offer students the opportunity for advanced placement at many trade schools, technical colleges, colleges, and universities.

The environment in which the students are educated is similar to the environment in which they must subsequently work and live. Instruction is project-based, setting standards of performance. In keeping with the requirement of business, and labor and industry standards, Student selection criteria are based on interest, aptitude, grades, attendance, and the ability of the student to profit, "employment wise," from the instructional program. The Career & Technology Center provides instruction in the practical and theoretical practices found within 30 various careers, and each student is asked to select a program on the basis of his/her interests, present attainments, and possible future opportunities in the chosen occupational field.

It is the policy of the Reading Muhlenberg Career & Technology Center not to discriminate on the basis of sex, handicap, race, color, or national origin in its educational and vocational programs, activities, or employment as required by the Title IX, Section 504 and Title VI.

Reading Muhlenberg Career & Technology Center will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information regarding services, activities, and facilities that are accessible to and usable by handicapped persons, contact the Assistant Director, Telephone (610) 521-7303. (Address below)

Inquiries regarding your rights and grievance procedures should be directed to the Assistant Director, Reading Muhlenberg Career Technology Center, 2615 Warren Road, Reading, PA 19612-3068. Telephone (610) 521-7303.

Every student attending RMCTC in 10th or 11th grade will receive the appropriate social studies course at RMCTC. The social studies courses are listed at the end of the other course descriptions.

Every student completing the RMCTC career and technical education program will receive 3 credits. Students taking social studies at RMCTC will receive 1 credit for social studies and 2 credits for their career-technology instructional area for a total of 3 credits. Twelfth grade students who are not taking social studies at RMCTC will receive 3 credits for successfully completing the program.
# PROGRAMS CLUSTERS
Reading Muhlenberg Career & Technology Center 2014-2015

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COURSE DESCRIPTIONS
Reading Muhlenberg Career & Technology Center 2013-2014

ADCA/ADCP Advertising Design & Commercial Art
Enrolling in Commercial Art at RMCTC means you have taken the first step in one of the most exciting careers. Our graduates attend art schools all over the country where they study Graphic Design, Game Design, Video, and Animation, just to name a few. As a Graphic Designer, you will create logos, advertisements for magazines and television, or you may even design new packaging for your favorite products. Maybe your passion is behind the camera: shooting photographs for magazines or video for television, movies and the web. Many of our students go to college to study animation, interactive media, and game design as well. By completing the Commercial Art program you will be ready for many careers in the visual arts. Our students have the opportunity to receive college credits at several art schools in Pennsylvania. Furthermore, this program prepares students earn certifications from Adobe, NOCTI and Print Ez. Let your imagination run wild and start your career in art right now!

ABRA/ABRP Automotive Body Repair
Today’s auto body technicians must be trained in the various aspects of the construction and repair of the modern automobile body and framework. Automobile production uses materials and manufacturing techniques that demand the auto body repair technician be competent in metalworking, welding, uni-body construction, surface preparation, spray painting and accurate repair estimating. The ABR program prepares its graduates for these tasks. Learning is reinforced by continuous applications of auto body repair classroom lessons to the actual repair of automobiles, vans and light trucks. The students use safe and modern repair equipment in all phases of their training.

ATTA/ATTP Automotive Technology
The Automotive Technology course includes specialized classroom, and "hands-on" experiences in the diagnosis, repair, and maintenance of the modern automobile. These experiences entail the understanding of the automotive industry, engines and engine performance, brake systems, steering and suspension systems, and automotive electrical/electronic systems. There is a continuous stream of actual "hands-on" activities, which duplicate the environment of today’s "high-tech" automotive service. Students also have the opportunity to become a PA licensed safety and emissions inspector as part of their career and technical program.

BAKA/BAKP Baking & Pastry Arts
The Baking & Pastry Arts course provides each student with the opportunity to acquire the basic skills and knowledge needed for entry-level employment in the baking field or continuing education in various culinary fields. Each student is given the opportunity to prepare a variety of baked goods, perform cake decorating, and gain banquet experience. Emphasis is stressed in the areas of sanitary practices and procedures. Students are taught the safe operation of both hand tools and machine-operated equipment. The equipment is equivalent to that used in commercial baking establishments. Program graduates are in constant demand by local businesses, as our students have the opportunity to graduate with both Serv-Safe and American Culinary Federation Certifications.

BRKA/BRKP Bricklaying
The construction of today’s buildings stresses the use of brick and block more than ever. This course teaches the students current building and construction methods in a clean and safe working environment. Classroom theory is reinforced by "hands-on" brick and block construction projects. In addition, the course includes components of tile setting, patio and fireplace construction, and other applications used in the masonry trades. This program is well suited to a person who desires working outdoors and enjoys physical activity. Graduates from this program can enter the work force or continue into post-secondary education.

BPMA/BPPM Building & Property Maintenance
This instructional program prepares individuals to apply technical knowledge and skills in the maintenance and repair of residential, office, apartment and other commercial buildings. The instruction includes the basics of carpentry, millwork, plumbing, glazing, electricity, plastering, welding, minor sheet metal, concrete, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping. Building & Property Maintenance is an ideal program for students who possess an inquisitive nature, enjoy varied tasks, and being physically active. Students are prepared for entry-level work or post-secondary education.

CARA/CARP Carpentry
Carpentry is the basic trade of the residential construction industry. Students are provided "hands-on" training in a wide variety of carpentry skills. From creating rough drawings and blue prints, to installing the finished carpentry work, this course reinforces classroom theory with "live" construction projects. Students will gain experience constructing, altering, installation and repair of structures and fixtures made of wood. The carpentry field presents excellent opportunities for individuals who desire immediate employment after high school or plan to pursue post-secondary education.
CDTA/CDTP  Computerized Drafting Technology
The CDT program provides the essential foundations of drafting and engineering principles. Basic theories and practices of drafting and engineering are emphasized in "hands-on" application activities. These activities assist the students to develop the necessary skills and knowledge required of entry-level employees and for the continuation of education within the architectural and engineering fields. Students attain skills in the drawing of mechanical devices, machinery, buildings and structures. The program stresses the use of Computer-Aided Drafting and Design (CADD) equipment, AUTOCAD, Revit & Inventor software are utilized. Graduates are in great demand by local business and industry and many go on to attain engineering certificates or degrees. Students are urged to complement the training with a vigorous program of academic course work at their home school.

COSA/COSP  Cosmetology
This State Board of Cosmetology regulated course teaches the art and science of enhancing personal appearance and self-esteem. It is the branch of applied science that deals with the external beautification of a person through the proper use and application of cosmetic products and practices. The program includes both classroom theory and practical applications in hair cutting and styling, nail service, cosmetics and make-up analysis, shop management, chemical treatment and cosmetology laws. Cosmetology is a state-licensed program requiring 1250 instructional hours for graduation. To earn the required hours, students must begin the program in their 10th grade year and will be expected to take additional hours of instruction offered at the school, in June after the end of the school year. Upon completing the course, students are prepared to take a State Board of Cosmetology examination for a cosmetologist's license. All students are required to purchase an approved uniform, mannequins, cosmetologist's kit and required reference books.

CUUL/CLUP  Culinary Arts
This highly appealing and interesting area focuses on the technology of preparing and serving attractive and nutritious foods while maintaining sanitary standards. This course includes experiences in developing and managing a food service establishment while also providing training in all aspects of food service. Included within the scope of these activities are gourmet and line dining skills, fast food operations, customer service, menu planning and cost-controlling, while also stressing sanitation and safety standards. The Food and Hospitality Industry is one which includes many employment opportunities, such as Prep Cooks, Short Order Cooks, Private Chefs, Caters, Institutional Cooks, Hotel and Restaurant Managers, Cafe Attendants, and many more options within this field. Culinary Arts has unlimited growth for creative individuals. Program graduates are in constant demand by local businesses, as our students have the opportunity to graduate with both Serv-Safe and American Culinary Federation Certifications. Upon graduating, many students pursue continuing their education at a culinary arts school or college.

DTTP/DTTP  Diesel Truck Technology
Trucks and diesel equipment are a part of virtually every aspect of today's transportation, construction, and manufacturing industries. Most of these vehicles are powered by diesel engines. The Diesel Truck Technology course trains its students in the repair and servicing of diesel-powered equipment. Special emphasis is placed on the direct needs of local business and industry. Classroom theory is enhanced by "hands-on" work involving actual maintenance activities on school-owned vehicles and equipment. While the emphasis is on diesel engines, gasoline powered equipment and vehicles are also included as part of the instructional program. Students have the opportunity to obtain state safety inspection licenses for automobiles, light trucks and heavy vehicles, as well as emissions inspector certification.

ECEA/ECEP  Early Childhood Education
Individuals involved in childcare are employed in day care centers, nursery schools, elementary schools, special education programs, Head Start classes, playgrounds, recreation centers and early childhood education centers. A student graduating in this program can qualify as an assistant group supervisor in child day care centers throughout Pennsylvania. The students study all the phases of child development: physical, social, emotional and intellectual. They learn about nutrition, guidance, and discipline. They study how to help the child develop daily living skills and about the value of play, literature, music, art, math, and science in child development. Each student works independently with a combination of learning strategies used to enhance that individual's growth. Practical experience is provided in the on-site childcare facility.

ECTA/ECTP  Electronics & Communication Technology
This exciting and highly individualized course is designed to prepare students to become electronic technicians and to prepare them further their education after graduation. Students learn to use electronic test equipment, soldering/de-soldering techniques, basic electricity and electronic circuitry, digital electronics, microprocessor repair and industrial robotics technology. Trainers and CAF (Computer-Aided Instruction) will be used for "hands-on" experience and to develop troubleshooting skills. Many students elect to continue their education and earn advanced placement at many post-secondary schools and colleges. Students interested in electrical and electronic engineering will benefit from the technical education received in this program.

ELTA/EETP  Electrical Technology
This highly technical and demanding course is designed to provide students the skills and knowledge necessary to enter and progress through the dynamic fields of electrical technology and electrical engineering. Class time is divided so that the students benefit from electrical theory lessons reinforced by "hands-on" applications in the program's state-of-the-art electrical laboratory. Modern educational equipment is utilized to prepare the students for careers in the emerging "high-tech" electrical field. Students learn the basics of residential, commercial and industrial electricity applications. Program graduates are prepared for employment as entry-level electricians or can pursue advanced education at numerous colleges, technical schools or apprenticeship programs.
EATA/EATP Engineering & Automation Technology

Automated manufacturing is now a standard process in most industries. The Engineering & Automation Technology program provides a solid foundation in basic electricity, industrial electricity, industrial electronics, and automated manufacturing. Students study motors, generators, transformers, motor controls, programmable logic controllers, hydraulics, pneumatics, AC/DC drives, mechanical drive systems, and robotics. Students will be taught on training devices which simulate a mechanical production line, duplicating automated manufacturing where fluid control, robotics, and electronic control are paramount. The program is designed as a pre-engineering program with a planned sequence of secondary and post-secondary technical courses. Through a unique partnership with Reading Area Community College, interested honors-level students can participate in the Berks County Technical Academy which provides college-bound students the opportunity to develop advanced technical skills and earn college credit, free of charge, toward an associate’s degree while still in high school. Upon high school graduation, successful students in the Berks County Technical Academy will have completed 8 college level courses and 27 credits toward the RACC Mechatronics Engineering Technology degree.

HAHPA/HMPD Health - Medical Professions

This program provides students the opportunity to explore specific professional programs such as occupational therapy, physical therapy, respiratory therapy, massage therapy and alternative therapies. In addition, students will be exposed to surgical and pharmacological procedures. The Medical Professions course of study includes the following: ethics, communication skills, laboratory skills, medical terminology, medical translation, anatomy and physiology, medical abbreviations, First Aid, and Cardiopulmonary Resuscitation (CPR). Opportunities for clinical and job shadowing experiences will be provided. Upon graduation, students may seek immediate employment as an aide in their specific area of interest or may decide to pursue additional education offered by health care facilities, colleges or universities.

HMDD/HMO Health - Medical Office

In this pre-professional program, students are exposed to varied medical careers within the hospital and medical office environments. Students are taught the underlying clinical skills, knowledge bases, and professional requirements that are necessary in order to be successful in their respective fields. Nursing, medical assistant, medical transcription, medical receptionist, coding and billing, medical insurance and medical secretary skills are introduced. Field trips, clinical experiences, and work-based learning experiences are available to qualified students. At the end of the program completion, students can choose to work in related entry-level position or pursue post-secondary education.

HINCA/HNCP Health - Nursing Careers

This pre-professional course gives students the opportunity to acquire the knowledge, skills and acceptable attitudes required of a safe, competent worker in the health occupations field. The program includes: communication skills, personal and community health, medical terminology, body structure and functions, cause and effect of disease, First Aid and Cardiopulmonary Resuscitation (CPR), and bedside care. Field trips and clinical experience will be scheduled in local health care facilities. Senior students may participate in the cooperative work experience program in jobs such as nurse aide/assistant, and medical and dietary services. Upon successful completion of this program, students may secure immediate employment as an entry worker in health care facilities or they may continue their education to pursue professional nursing, physical therapy, respiratory care, radiology, dentistry or any number of related medical fields.

HRTA/HRTT Horticulture

This program stresses a highly creative design process in its training. Individuals must be willing to work in a variety of conditions in some of the areas of instruction. The main areas of concentration include Floral Design, Greenhouse Management and Landscape Construction. Floral Design centers on arranging live and artificial flowers in a shop setting. Special attention is paid to developing a creative eye from the basic course to the most elaborate wedding order. Greenhouse management concentrates on the daily tasks of growing and selling various tropical plants. The basics of watering, fertilizing, transplanting, and monitoring the plants well-being is the core of this area. Landscaping duties include maintaining the outside property by using various hand and power tools. Designing garden areas and installing a range of landscape products including brick and paver walkways, decorative ponds, and stone retaining walls are also included in this area.

ITAAT/ITAP Information Technology - Applications

This course includes classroom theory and "hands-on" creation of computer programs and documents. Students will create simple computer programs, java programs, and applications. Database Administration is an in-demand occupation and students will learn the complexity of this job in detail. Students will also gain knowledge of basic computer fundamentals and will learn how to implement, navigate, and operate Microsoft Office, Windows, and the Internet. Any student completing the program will be prepared for Microsoft Office Specialist Certification and will have the necessary skills for employment in many computer fields. Through a unique partnership with RACC, interested honors-level students can participate in the Berks County Technical Academy which provides college-bound students the opportunity to develop advanced technical skills and earn college credit, free of charge, toward an Associate's Degree while still in high school. Upon high school graduation, successful students in the Berks County Technical Academy will have completed 8 college level courses and 27 credits toward the RACC Business Management degree.
MSTA/MSTD Machine Shop Technology

Whether it's a bicycle, an iPad, the rims on a car, or your toothbrush, every manufactured item relies on the machining industry in some way or another. The precision machinist is a highly skilled worker who uses computer-controlled and precision machine tools, hand tools, and highly accurate measuring tools to manufacture a product from metal and non-metal materials. Successful students in this High Priority Occupation are in demand and recruited by local and national companies in the medical, aerospace, automotive, plastics, and metal fabrication industries. Students in this program work with full-size industrial machine tools such as engine lathes, milling machines, drill presses, surface and pedestal grinders, power band saws, and computer numerically controlled (CNC) equipment. Also emphasized is this program in industry drawing interpretation, precision measurement, inspection processes, layout and assembly procedures, and safe work habits. Introduction to CNC set-up, operation, and programming. In addition to training with CAD/CAM software is included in the course instruction. As a machining student at RMCTC you will have the opportunity to earn industry certifications from the National Institute of Metalworking Skills (NIMS). Program graduates often enter directly into employment, apprenticeship programs, and post-secondary education.

MMVEA/MMEP Motorcycle, Marine & Small Engine Technology

The "small engine" of today is not so small anymore and serves us in ways never imagined! From the large engines that propel boats, to those that power recreational vehicles and lawn-care machines, all require the services of a highly knowledgeable and skilled technician. The MME Technology program teaches its students the theories and applications behind the maintenance and repair of a wide variety of motorized equipment and vehicles. This equipment includes generators, industrial tow motor lifts and material handling devices used in all phases of warehousing and manufacturing. Students reinforce their theory lessons through actual maintenance and repair of equipment and vehicles.

FIDA/FISP Painting & Decorating

The role of Painters and Wallpaper Installers involves more than just making a house, building or room "look nice". Today's crafts-person in the painting and wallcovering field must know how the particular paint, wallpaper, carpeting and color schemes can complement each other. When a person paints or designs any interior setting, they must account for the brightness of an area, the durability of the decorating materials, and the cost of the materials to the customer. These considerations are true for exterior house or building painting as well. In the Painting & Decorating program, the students acquire the skills and knowledge they must possess in order to be a competitive worker in this field. The program emphasizes "live work" projects. Besides painting and wallpapering the students will also learn stenciling, airbrush painting, signmaking and drywall repair. The students learn not just what to do, but how to do it!

PLIA/PISP Plumbing & Heating

Students enrolled in Plumbing & Heating acquire the basic skills necessary for the proper and safe use of plumbing and heating materials, supplies, tools and equipment. Students who successfully complete this course will be able to demonstrate competent knowledge and skills in the performance of trade tasks such as: assembling and installing air, gas, water and waste disposal systems, cutting, reaming and threading piping materials, waterproofing and sealing joints, testing entire systems for leaks through the use of pressure testing devices, installing gas, water, and sanitary plumbing fixtures and equipment, reading and implementing blueprint drawings, and designing plumbing and heating systems.

PRIA/PISP Printing & Graphic Communications

This challenging and rewarding training program thoroughly prepares its graduates to enter the comprehensive printing and graphic communications field at an "advanced" apprentice level. Pre-press techniques utilizing Adobe InDesign, Photoshop and Illustrator software, as well as offset printing and finishing are stressed. Among the major task divisions that are taught within the course are composition and design, computer to plate procedures, press operations and bindery. The equipment used in the printing course is equal to the equipment used in today's medium to large print shops. In addition to printing theory, learning is enhanced by completing actual production printing projects. Program graduates may enter employment or pursue advanced degrees at various technical schools or colleges.

ITIA/ITISP Information Technology - Web Design

In this program students learn to use HTML, XHTML, Javascript, Dreamweaver, Photoshop, Flash and Illustrator to create, edit and publish interesting web sites. If you're a creative individual who enjoys art and working with computers, web design could be an exciting, rewarding career for you. Graduates of the web design class will most likely pursue post-secondary education. However, it is possible for very talented students to enter the workforce upon graduation. Designers working in this field enjoy creative work environment. Web design students also take advantage of articulation agreements with local colleges where they receive college credits for the work completed in this class. Through a unique partnership with RACC, interested honors-level students can participate in the Berks County Technical Academy which provides college-bound students the opportunity to develop advanced technical skills and earn college credit, free of charge, toward an Associate's Degree while still in high school. Upon high school graduation, successful students in the Berks County Technical Academy will have completed 8 college level courses and 23 credits toward the RACC Computer Technology degree.
**PSSA/PSSP Public Safety & Security**

The Public Safety & Security program presents a comprehensive public safety education to students interested in pursuing a career, volunteer service, or post-secondary education in emergency medical, law enforcement, fire or emergency management services. Students may also find employment in areas of security and industrial safety. Since all areas of public safety must work together, and responsibilities often overlap career boundaries, the student will be expected to meet a minimum level of proficiency in all areas of the training program. Students are required to have a high degree of motivation and self-discipline. Emergency medical services (EMS) prepare students for certification in cardiopulmonary resuscitation and emergency response. Studies will prepare students to test for the Pennsylvania Department of Health’s Emergency Medical Technician certification. Law enforcement covers the Pennsylvania crimes and vehicle codes, criminal behavior, corrections, criminal investigations and evidence, patrol procedures, traffic control and safety, as well as arrest procedures and the use of force. Fire science studies prepare students with fire fighting essentials, basic vehicle rescue and personal rescue training. Students will study administration and planning of safety procedures and inspections. This program also offers Emergency Dispatch training.

**SCMA/SCMP Sewing & Clothing Manufacturing**

This course serves as an excellent springboard into the exciting and challenging world of fashion. Job opportunities are plentiful for those with the required career skills. Students learn from both introductory and advanced techniques of today’s fashion apparel industry. From following purchased design patterns to creating personal fashion statements, students acquire the skills and related knowledge to mark, cut and sew a wide variety of fashions and clothing. Interested students should possess originality, creativity, manual dexterity and ambition. While many students utilize this course for entry into the apparel industry directly from high school, some students decide to pursue their study at a specialized collegiate school of fashion design.

**SOED/SEIF Service Occupations Education**

The Service Occupations Education program will provide students with the opportunity to explore careers in the personal services cluster and gain the employability skills needed for job placement. This program provides instruction in the fields of custodial services, institutional food services, commercial laundry, housekeeping in a hotel or hospital setting, distribution of goods, light repair and grounds maintenance. Students will learn hands-on skills in a lab setting and participate in related activities within the school setting. The program will stress workplace safety, the development of good work habits, and the ability to work cooperatively. Prior to student acceptance to the program, completion of an IEP meeting is mandatory.

**WMFA/WMFP Welding & Metal Fabrication**

Welding and metal fabrication is one of the most desired and highest paying trades in American industry. From the basic task of simply welding two pieces of metal, to the advanced lessons of fabricating metal for pipelines and naval vessels, today’s welder must have the skills and knowledge to meet those varying demands. It’s a complex and challenging trade, but the financial rewards and steady work more than compensate! This is a trade that has kept pace with the demands of changing technology. The students who successfully complete this rigorous program will acquire expertise in areas of "stick", "TIG", "MIG" and oxyacetylene welding, as well as the use of plasma cutting and metal brazing. Trade-related safety practices and the proper use and maintenance of welding equipment are stressed.

**Social Studies at Reading Muhlenberg Career & Technology Center**

- 211V/212V World Studies  
  1 credit
- 213V/214V Honors World Studies  
  1 credit
- 215V/216V AP World Studies  
  1 credit
- 231V/232V American History  
  1 credit
- 233V/234V Honors American History  
  1 credit
- 235V/236V Advanced American Economics & Government Systems  
  1 credit

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CREDIT RECOVERY

In Credit Recovery, content is delivered using the computerized program, Grad Point. Curriculum utilizes pre-post testing procedures and student response to diagnose a learner's strengths and weaknesses. Based on the data, the appropriate pathway is prescribed through a scope and sequence of lessons. All curriculums are based on both State and National standards.

Students may recover credits or accelerate credits based on their educational needs. Credit Recovery can be accessed during school time, if schedule permits or after school for Reading High School students.

Students are graded on a Pass (P)/Fail (F) basis. Students who pass receive the appropriate high school credit.

Mathematics

**General Math**
Relates mathematics with everyday topics such as salary and wages, taxes and commission, measurements, and introduction to algebraic foundations.

**Transitional Math**
Reviews basic math skills involving whole numbers, fractions, decimals, percents, and formulas to solve measurement problems.

**Pre-Algebra**
Includes instruction in number operations and computation, prime numbers, ratios, proportions and percents. Also included in this course is instruction in signed numbers, exponents, algebraic thinking, and data analysis.

**Algebra I**
Includes instruction in signed numbers, prime numbers, algebraic thinking skills, algebraic expressions, ratios, proportions, probability, measures of central tendency, graphing, and linear equations.

**Algebra II**
Includes instruction in algebraic expressions, radicals, complex numbers, equations/inequalities, variation, word problems, polynomials, functions, and graphing.

**Geometry**
Includes instruction on basic skills in geometry including reasoning, constructing geometric figures, developing proofs, and identifying geometric figures.

**Trigonometry**
Provides instruction in similar triangles, trigonometric functions, using functions to solve right triangles, oblique triangles, and arbitrary triangles, real life application problems, radian measure and an introduction to vectors.

English

**English I**
Provides instruction on reading comprehension, the parts of narrative and expository essays, and the characteristics of various genres of literature. The course also focuses on the five-step writing process to develop the learner's writing skills. English I also reviews fundamentals of grammar, punctuation, and sentence structure.

**English II**
Provides instruction on some general grammar concepts, punctuation rules, some spelling rules, and vocabulary.

**English III**
Instructs students on rules of sentence punctuation, basic sentence structure, correct verb use, and planning and developing a paragraph. A module on writing a research paper is also included.

**English IV**
Provides instruction on basic sentence structure, grammar and vocabulary skills, main idea, and reasoning.

**Inferential Reading**
Includes lessons that focus on elements of reading, reading in the workplace, reading for main idea, supporting ideas, implied meanings, logical relationships, tone, and application of reading.
Science

Science 9
Provides instruction on the following: Math for Physical Science, Introduction to Chemistry, Atoms, Chemical Reactions, Solutions, Batteries, Lab Simulations with Metals, and Gasses.

Biology 10
Includes instruction in the following: Introduction to Biology, Scientific Method, Chemistry of Life, Cell Structure and Function, Nucleic Acids and Protein Synthesis, Genetics, Taxonomy, and Behavior.

Earth/Space Science

Environmental Science
This .5 credit course provides instruction on Scientific Math, Scientific Method, Ecology, Energy and Its Effects, and Environmental Problems.

Chemistry A
Includes instruction in Scientific Method, Atomic Structure, Properties and Behaviors of Matter, Periodic Table, Chemical Formulas, Reactions, and Bonding.

Field Biology
This .5 credit course includes instruction and lab simulations in Plants, Plant Structures and Growth, Photosynthesis, and Taxonomy.

Health
This .5 credit course includes instruction on Physical Health, Mental Health, Communication Skills, Life-Style Choices, Nutrition, Safe Living, and Human Sexuality. A Red Cross First Aid book is recommended when taking this course.

Social Studies

American History B
This 11th grade history course includes instruction on American History after the Civil War Period. Topics include Industrialization, Unions, Social Expansion, World War I, World War II, Cold War, and the impact of war on our society.

Geography
This .5 credit course focuses on Map Reading, Longitude and Latitude, Physical Geography, Climates, and Population Distribution.

Economics/Cultures
This 12th grade social studies course provides instruction in Basic Principles of Economics, Production and Consumption, Cultures, Norms, and Social Systems.

Introduction to US History
This social studies course provides instruction on the Arrival to the Americas, Early Colonization, Founding a Nation, Constitution, and concludes at the Civil War.