Course selection is a critical step in the academic process. Hatboro-Horsham High School believes that accepting responsibility for decisions is an integral part of the educational and learning process. For this reason, you will be held responsible for all decisions regarding your choice of courses. No student/parent initiated schedule changes will be permitted after March 22, 2019. Course selection should be done thoughtfully and carefully after realistic self-evaluation and considerable dialogue with your teachers, your counselors and your parents/guardians.
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Dear Parent / Guardian:
The course selection process is a critical step in the academic process. Hatboro-Horsham High School believes that accepting responsibility for decisions is an integral part of the educational and learning process.

Course selection should be completed thoughtfully and carefully after realistic self-evaluation and considerable dialogue with teachers, counselors, and parents/guardians. We hope that in streamlining this guide your students will be able to make informed course selections meaningful to their career interests. To assist students and parents in making the most appropriate selections, the following items are recommended for careful consideration:

1. Past academic record
2. Achievement in current courses
3. Teachers' recommendations
4. Prerequisites for courses
5. Amount of personal effort and time devoted to school work
6. Total course load anticipated for next year
7. Extracurricular activities

We encourage you to review this booklet thoroughly with your student and discuss choices for the upcoming school year. Please read the Guide carefully and do not hesitate to seek assistance from counselors, teachers and administrators in selecting the best distribution of courses.

Sincerely,
The High School Administrative Team
MISSION STATEMENT
At Hatboro-Horsham High School our students will graduate prepared to be successful in whatever they endeavor and become responsible and productive citizens equipped for the 21st century.

HATBORO-HORSHAM HIGH SCHOOL BELIEF STATEMENT
As we commit ourselves to becoming one of the best schools in the nation, we at Hatboro-Horsham High School affirm these principles to be true:

- Our school community must be physically, emotionally and intellectually safe place to teach and learn.
- A dynamic partnership among students, educators, families and the community is vital.
- Every member of our educational community has a right to be treated respectfully, and this begins with self-respect.
- Each individual's potential is independent of gender, race, religion, nationality, physical ability, sexual orientation or socio-economic status.
- The school, families and community have a shared responsibility to help students develop qualities such as integrity, perseverance and resiliency, which are necessary for success in life.
- Life-long learning is essential for success in a changing society and requires a strong academic foundation, independence, responsibility and problem-solving skills.
- To fully serve our students, we must provide varied academic challenges, create opportunities for personal growth and reflection, nurture individual talents, encourage an appreciation of the participation in the arts, and promote a fit and healthy lifestyle.
- Communication is an active process of engagement that involves listening, speaking, reading, and writing skills and leads to an open and honest exchange of ideas.
- Technology has the potential to expand our capabilities, enhance our learning experience and teaching environment, and bring the resources of the world to us.
- A democracy requires informed, educated citizens.
- We must make a commitment to continuous improvement and acknowledge that this commitment requires adapting to change.

GENERAL INFORMATION
School Organization
A grade level modified house plan is the school organization in operation at HHHS. A grade level principal is assigned to each grade. A guidance counselor is assigned to each student and will remain with the student throughout his/her high school years. Parents and students are encouraged to contact their house principal or counselor for assistance with educational and/or personal problems.

High School Block Schedule
The high school day is divided into four (4) 75-minute academic class periods on two-way (Red/Black) rotation. There a 90-minute period in the middle of school day for lunch and a student support period called "HATS". Most 1.0 credit courses meet every day for a semester, while 0.5 credit courses meet every other day for a semester.
Graduation Requirements

**NOTE:** These graduation requirements are governed by policy set forth by the Hatboro-Horsham School Board of Directors.

### TRADITIONAL DIPLOMA

<table>
<thead>
<tr>
<th>Program</th>
<th># of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>5.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.5</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>Physical Education/ Health</td>
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</tr>
<tr>
<td>Technology/Computer Science</td>
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</tr>
<tr>
<td>Creative Arts</td>
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</tr>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td>State mandated proficiency on the Keystone Exams (class of 2021 and beyond)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>26.0</strong></td>
</tr>
</tbody>
</table>

### SCHOLAR’S DIPLOMA

<table>
<thead>
<tr>
<th>Program</th>
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Mathematics</td>
<td>4.0</td>
</tr>
<tr>
<td>Science</td>
<td>4.0</td>
</tr>
<tr>
<td>Social Studies</td>
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</tr>
<tr>
<td>World Language</td>
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</tr>
<tr>
<td>Physical Education/ Health</td>
<td>2.0</td>
</tr>
<tr>
<td>Creative Arts</td>
<td>0.5</td>
</tr>
<tr>
<td>The Scholars Leadership Program [available in either junior or senior year]</td>
<td>0.5</td>
</tr>
<tr>
<td>Electives</td>
<td>6.0</td>
</tr>
<tr>
<td>State mandated proficiency on the Keystone Exams (class of 2021 and beyond)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>29.0</strong></td>
</tr>
</tbody>
</table>

**Additional Criteria for the Scholar’s Diploma:**

- Maintain a minimum simple/non-weighted grade point average of 3.4
- Receive a passing score (3 or better) on at least two Advanced Placement courses during the Sophomore or Junior year
**Prerequisites**
Certain courses will have prerequisites due to the sequential nature of the course content. The student should read all course descriptions and work with their counselor to make sure that prerequisites are met.

**Course Limitations**
Course offerings will depend on the availability of staff, space, resources and potential scheduling limitations.

**Course Selection**
All students must schedule a full roster in order to meet graduation requirements. Students will need to thoroughly study the course selection guide; and in consultation with teachers, counselors and parents, make appropriate course selections for the upcoming school year. Courses should be selected based on individual needs and interests. Development of schedules for 1600 plus students and 140 teachers requires careful planning, budgeting and allocation of resources. Some classes may not be offered due to insufficient enrollment, and other classes may be capped if they are too large for the resources available. Students should select alternative elective courses for these situations.

Students will select courses in February. One-on-one student/counselor meetings will begin mid-February. The final date for students to make course requests changes will be Friday, March 22, 2019.

After March 25, any changes will be school initiated as a result of a scheduling conflict.

Tentative schedules will be available online to students in late August. Students are individually assigned to a Directed Study with any available teacher. Since lunch assignments are contingent on the Directed Study assignment, this cannot be changed based on friends or other personal preferences.

**Mid-Year Completion of Graduation Requirement**
A senior who has completed all academic graduation requirements by the end of the first semester and has completed all early graduation paperwork, will be unenrolled after semester 1. In doing so, that student will no longer be eligible to participate in any school activities during semester 2. However, such a student may take part in the graduation ceremony and other traditional senior activities during semester 2 (prom, class trip, etc.) The diploma will not be issued until after the June graduation ceremony.
Schedule Changes/Course Commitments

Students will not be permitted to drop courses they have requested. However, during the first week of Semester 1 and the first week of Semester 2, they will be permitted to request course changes if the request meets one of the following criteria:

1. **ACADEMIC MISPLACEMENT** - Determined by previous subject grades, related standardized test scores, teacher information, evidence of sufficient student effort and administrative approval
2. **SCHEDULING ERROR** - Missing Graduation requirements, Missing a course prerequisite
3. **CURRICULUM PROGRAM CHANGE** - Dropping a less difficult course for a more difficult course as determined by assigned course weight
4. **SUMMER SCHOOL RECORD** - Changes resulting from completion of summer school must be made no later than the week immediately following the end of summer school.
5. **SENIORS** - Students who have good attendance, are in good academic standing, and do not have discipline problems are eligible to explore course changes, with their counselor, in courses where space is available.
   i. Dropping courses for Early Release or Study Hall is not permitted.
   ii. AP courses and Internship are not permitted to be dropped.
   iii. Changes for athletic reasons are not permitted.
   iv. No changes will be permitted if it drops the current student enrollment below the course minimum.
   v. No changes will be permitted if it raises the current student enrollment above the course maximum.
   vi. No schedules will be changed for the purpose of requesting a different teacher.

**PLEASE NOTE:** Meeting any of these criteria does not guarantee a schedule change, but allows a student to be eligible for consideration for a change. All class changes are subject to final approval by the appropriate administrator. There are times when the student’s course change request cannot be met due to full classes, unavailability of classes at appropriate times necessary to meet the student’s needs or other similar circumstances.

A course which is dropped and does not meet the above criteria will result in a Withdraw Failure (WF) course grade. This becomes part of the student’s permanent record.
College / Post-Secondary Application Process

Naviance Family Connection

The high school is proud to offer Naviance Family Connection, a password protected web-based software program. Each student has access to his or her personal profile, scholarships, career interest inventories, grades, and college and/or career interests. Students interested in applying to college are able to compare GPA, SAT & ACT scores, along with other statistics to actual historical data from HH students who have applied in the past. Naviance Family Connection also facilitates communication between counselors and students to guide post-secondary and career interests and goals.

Students and parents will be guided through the process of registering on Naviance. Once a student is registered they should check the Guidance website regularly for up-to-date information and stop in the Student Success Center for assistance.

The Hatboro-Horsham Guidance Department is now on Twitter! We will be using this account to update students and parents on upcoming college and career events, admissions and scholarship deadlines, as well as links to timely news and resources. Students and parents can also follow the Guidance live Twitter feed on its webpage without having to create an account.

Follow us on Twitter: https://twitter.com/HHGuidance

Transcripts and Standardized Test Scores

All transcript requests must be made through Naviance. Please allow a minimum of twelve (12) school days for processing transcript requests.

All standardized test scores (SAT, SAT Subject tests, ACT and AP) MUST be sent to all colleges/universities directly through the testing agency College Board, http://www.collegeboard.org/, or ACT, http://www.actstudent.org/. It is the responsibility of the student to request them from the agency and have them sent to the appropriate school. The High School will NOT place standardized test scores on the transcripts.

KEYSTONE EXAMS

Keystone Exams are end-of-course assessments in designated content areas. The Keystone Exams serve two purposes: (1) high school accountability assessments for federal and state purposes, and (2) high school graduation requirements for students beginning with the class of 2020. The Algebra I and Literature Keystone Exams include items written to the Assessment Anchors/Eligible Content aligned to the Pennsylvania Core Standards in Mathematics and English Language Arts. The Biology Keystone Exam includes items written to the Assessment Anchor/Eligible Content aligned to the enhanced Pennsylvania Academic Standards for Science.
Course Phases

Advanced Placement (AP): Hatboro-Horsham High School offers a number of Advanced Placement (AP) courses to its students. An established, nationally recognized program, AP courses are available to students who are eager to undertake more complex, challenging course work. AP courses reflect college level work and, as such, are designed to prepare students to take AP exams at the conclusion of the course. Please visit www.collegeboard.org for additional information on the format and expectations of AP courses. Students are advised to research whether AP credit is awarded for colleges/universities in which they are interested in attending.

The Hatboro-Horsham School District will pay for one AP exam, per year. Students taking more than one AP Courses in one school year will be required to pay for each additional test - students on free or reduced lunch are eligible for a fee reduction or waiver. Students accepted into the AP program will sign a contract agreeing to all conditions set forth.

Accelerated (ACC): See individual math courses in the Math section of this guide.

Honors (H): Other than AP, this is the most rigorously challenging academic program for highly motivated students and should be selected by those who expect to attend highly competitive universities. They should also be highly competent in the subject area of the course selected.

College Prep (CP): This phase is for students who expect to attend college or some other post high school training such as nursing or technical school. Students who are motivated and academically successful should select this phase.

Academic (A): This phase is for students who expect to pursue a career, college or further education. These courses are designed to assist students needing additional support in content areas and study skills.

<table>
<thead>
<tr>
<th>Grade</th>
<th>AP</th>
<th>ACC</th>
<th>Honors</th>
<th>CP</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
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<td>6.83</td>
<td>6.33</td>
<td>5.33</td>
<td>4.33</td>
</tr>
<tr>
<td>A</td>
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<td>6.50</td>
<td>6.00</td>
<td>5.00</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>6.67</td>
<td>6.17</td>
<td>5.67</td>
<td>4.67</td>
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<tr>
<td>B+</td>
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</tr>
<tr>
<td>B</td>
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<td>5.00</td>
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<tr>
<td>B-</td>
<td>5.67</td>
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</tr>
<tr>
<td>C+</td>
<td>5.33</td>
<td>4.83</td>
<td>4.33</td>
<td>3.33</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>5.00</td>
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<td>4.00</td>
<td>3.00</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>4.67</td>
<td>4.17</td>
<td>3.67</td>
<td>2.67</td>
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<tr>
<td>D+</td>
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<td>3.33</td>
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<td>1.33</td>
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<tr>
<td>D</td>
<td>4.00</td>
<td>3.50</td>
<td>3.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>3.67</td>
<td>3.17</td>
<td>2.67</td>
<td>1.67</td>
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</tr>
<tr>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Alternative Courses and Programs

English as a Second Language – The staff at Hatboro-Horsham High School provides the Limited English Proficient (LEP) student with courses and a support system to adjust to his/her new environment, cope with the school curriculum, enhance his/her sense of self-efficacy and acquire the knowledge and develop the skills necessary to reach career goals.

College Courses (Dual Enrollment) – Students taking a college course for remediation, enrichment or in lieu of a high school subject must meet with a counselor and complete an Outside Coursework Form. A transcript must be received from the college before high school credit is awarded. The grades received for these courses will not be included in either the GPA or the class rank. However, the courses taken will be noted on the transcript. For further information on Dual Enrollments, see your counselor. The school district will not assume responsibility for the cost of the course.

Online Courses - Online courses are available through Virtual High School (VHS). There are limited spaces available to students and acceptance is not guaranteed. VHS courses are available to all students. Enrollment in a VHS course does not require a period in the schedule. Students that wish to explore a VHS course without a period assignment must be independent learners with strong motivation and time management skills. PLEASE SEE YOUR COUNSELOR FOR MORE INFORMATION AND AVAILABLE COURSES.

Summer Course Work – Students may take additional courses during the summer through any of the following methods:

1. At a 2 or 4 year accredited college
2. Private tutoring (minimum 60 hours for a one credit course) with a PA certified teacher in the area of study and approved syllabus.
3. Original credit summer school (between 100 -120 hours of instruction) at a public school offering original credit.
4. Educere - A variety of courses for credit recovery are available online through Educere. Listen for announcements in May/June and see your counselor for information.
5. Montgomery Virtual Program (MVP) is an online learning solution offered by the MCIU.

Prior written approval is required through a guidance counselor. This includes courses taken for acceleration. The grades received for these courses will not be included in either the GPA or the class rank. However, the courses taken will be noted on the transcript. Transportation and expenses for summer course work are the responsibility of the person taking the course.
EASTERN Center Program – This program is designed to provide specific training in vocational and technical areas for students in grades eleven and twelve, except for Allied Health which is a seniors-only one year program. Students spend a half day and earn four credits per year. In order to attend, a student should have successfully completed 16 credits and specific course requirements in grades nine and ten. Other programs for credit are available and information is located throughout the Course Selection Guide. See your counselor for registration forms which are required for all courses taken at the EASTERN Center.

Special Education Program – The special education program is an individualized program encompassing the required subjects for graduation, at a level commensurate with the student’s identified ability. A student cannot elect to enroll in special education, but may apply, be evaluated by a school psychologist, and then assigned by district personnel. Students are eligible for graduation after four years in the special education program. Students enrolled in the special education program are not restricted to special education courses, and may enroll in regular education courses as well.

Gifted Support Program – This program is available to students in grades nine through twelve who have been identified as gifted through a comprehensive multidisciplinary evaluation. Students in this program may take a half credit Enrichment seminar course each year.

Nonbinding Note - This booklet describes all courses contained in the Hatboro-Horsham High School program of studies; however, all courses may not be offered during the school year. The school reserves the right to cancel or postpone courses for which insufficient enrollment, lack of physical facilities, or unavailability of teaching personnel necessitates such action.
NCAA – STUDENT ATHLETES

More than 460,000 NCAA student-athletes – more than ever before – compete in 24 sports every year. Member schools support their student-athletes’ academic success by providing state-of-the-art technology, tutoring and access to academic advisors. More than eight out of 10 student-athletes will earn a bachelor’s degree, and more than 35 percent will earn a postgraduate degree.

The advantages of competing in college sports are both immediate and lifelong. Participating in college sports provides opportunities to learn, compete and succeed. Student-athletes receive top-notch academic support, quality medical care and regular access to outstanding coaching, facilities and equipment. Student-athletes as a group graduate at higher rates than their peers in the general student body and feel better prepared for life after college.

Learn more about the three divisions –


College-bound student-athletes preparing to enroll in a Division I or Division II school need to register with the NCAA Eligibility Center to ensure they have met amateurism standards and are academically prepared for college coursework.


Division 1 or 2

You need to be certified by the NCAA Eligibility Center to compete at an NCAA Division I or II school. Create a Certification Account and we'll guide you through the process. You need to create a Certification Account to make official visits to Divisions I and II schools or to sign a National Letter of Intent.

Division 3

Create a Profile Page if you plan to compete at a Division III school or are not yet sure where you want to compete. You'll get an NCAA ID, and we will send you important reminders as you complete high school.
NCAA RECRUITING FACTS
College sports create a pathway to opportunity for student-athletes.

490,000
Student-athletes
19,500
Teams
3
Divisions
1
Association

DIVISION I
Division I schools, on average, enroll the most students, manage the largest athletics budgets, offer a wide array of academic programs and provide the most athletics scholarships.

PARTICIPATION
• 179,200 student-athletes
• 351 colleges and universities

ATHLETICS SCHOLARSHIPS
59 percent of all student-athletes receive some level of athletics aid

ACADEMICS
2017 Graduation Success Rate: 87 percent*

OTHER STATS
Median Undergraduate Enrollment: 9,629
Average Number of Teams per School: 18
Average Percentage of Student Body Participating in Sports: 4 percent
Division I National Championships: 26

DIVISION II
Division II provides growth opportunities through academic achievement, high-level athletics competition and community engagement. Many participants are first-generation college students.

PARTICIPATION
• 121,500 student-athletes
• 508 colleges and universities

ATHLETICS SCHOLARSHIPS
62 percent of all student-athletes receive some level of athletics aid

ACADEMICS
2017 Academic Success Rate: 72 percent*

OTHER STATS
Median Undergraduate Enrollment: 2,485
Average Number of Teams per School: 16
Average Percentage of Student Body Participating in Sports: 9 percent
Division II National Championships: 25

DIVISION III
The Division III experience provides an integrated environment that focuses on academic success while offering competitive athletics and meaningful nonathletics opportunities.

PARTICIPATION
• 190,500 student-athletes
• 443 colleges and universities

FINANCIAL AID
80 percent of all student-athletes receive some form of academic grant or need-based scholarship; institutional gift aid totals $17,000 on average

ACADEMICS
2017 Academic Success Rate: 87 percent*

OTHER STATS
Median Undergraduate Enrollment: 1,748
Average Number of Teams per School: 18
Average Percentage of Student Body Participating in Sports: 25 percent
Division III National Championships: 28

Want to play NCAA sports? Visit ncaa.org/playcollegesports

*Graduation rate for student-athletes, including those who transfer from one school to another.

Facts about NCAA sports

Does the NCAA award athletics scholarships?
Individual schools award athletics scholarships. Divisions I and II schools provide more than $3 billion in athletics scholarships annually to more than 150,000 student-athletes. Division III schools, with more than 190,000 student-athletes, do not offer athletically related financial aid, but most student-athletes receive some form of academic grant or need-based scholarship.

Do many high school athletes earn athletics scholarships?
Very few, in fact. About 2 percent of high school athletes are awarded some form of athletics scholarship to compete in college.

Do NCAA student-athletes have difficulty meeting graduation requirements with the time demands of their sport?
While competing in college does require strong time-management skills and some thoughtful planning with academic advisors, on average NCAA student-athletes graduate at a higher rate than the general student body.

Do many NCAA student-athletes go on to play professionally?
Fewer than 2 percent of NCAA student-athletes go on to be professional athletes. In reality, most student-athletes depend on academics to prepare them for life after college. Education is important. There are nearly half a million NCAA student-athletes, and most of them will go pro in something other than sports.

ESTIMATED PROBABILITY OF COMPETING IN NCAA ATHLETICS BEYOND HIGH SCHOOL

<table>
<thead>
<tr>
<th>Student-Athletes</th>
<th>All Sports</th>
<th>Men’s Basketball</th>
<th>Women’s Basketball</th>
<th>Football</th>
<th>Baseball</th>
<th>Men’s Ice Hockey</th>
<th>Men’s Soccer</th>
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</thead>
<tbody>
<tr>
<td>High School Student-Athletes</td>
<td>7,300,000</td>
<td>546,400</td>
<td>429,400</td>
<td>1,083,500</td>
<td>468,800</td>
<td>35,200</td>
<td>440,300</td>
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<tr>
<td>NCAA Student-Athletes</td>
<td>492,000</td>
<td>18,700</td>
<td>16,800</td>
<td>73,700</td>
<td>34,600</td>
<td>4,100</td>
<td>24,800</td>
</tr>
<tr>
<td>Percentage Moving from High School to NCAA</td>
<td>6%</td>
<td>3.4%</td>
<td>3.9%</td>
<td>6.8%</td>
<td>7.1%</td>
<td>11.7%</td>
<td>5.6%</td>
</tr>
<tr>
<td>Percentage Moving from NCAA to Major Professional*</td>
<td>2%</td>
<td>1.1%</td>
<td>0.9%</td>
<td>1.5%</td>
<td>9.1%</td>
<td>5.6%</td>
<td>1.4%</td>
</tr>
</tbody>
</table>

*Percent NCAA to Major Professional figures are based on the number of draft picks made in the NFL, NBA, NHL, MLS, and MLB drafts.
Course Selection Procedure

- Materials: Course Selection / Pathway Guide and Course Selection Worksheet.
- Review graduation requirements and progress using worksheet.
- To learn more about courses refer to this guide for course descriptions.
- Remember you should be taking the most challenging courses available while taking the opportunity to explore electives in your career interests.
- As you consider your career interests use the Pathway electives offerings.
- Complete Course Selection online.
- Your guidance counselor will contact you for a meeting to review your credits and your Course Selections for next year.
- Last day for changing a course request is Friday, March 22, 2019.

COUNSELORS for 2019-2020

<table>
<thead>
<tr>
<th>Student Last Name</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Co</td>
<td>Mrs. Zahn</td>
</tr>
<tr>
<td>Cr - E</td>
<td>Mrs. Hermann</td>
</tr>
<tr>
<td>F - I</td>
<td>Mr. Noonan</td>
</tr>
<tr>
<td>J - Mb</td>
<td>Mrs. Townsend</td>
</tr>
<tr>
<td>Mc - Re</td>
<td>Mrs. Soricelli</td>
</tr>
<tr>
<td>Rf - Sh</td>
<td>Mrs. Hermann</td>
</tr>
<tr>
<td>Si - Z</td>
<td>Mrs. Varano</td>
</tr>
</tbody>
</table>
Course Selection Instructions

Course selection will occur online for the upcoming school year. Student registration will open on Jan. 30, 2019 and must be completed by Thursday, February 14, 2019.

- Complete Course Selection Worksheet with the courses you are selecting for the upcoming school year.
- Go to http://ps2.hatboro-horsham.org:8081
  - User ID and Password are same as student webID

- Once you are logged in, the Requests menu will appear (shown below).

- The left menu is where students add their course requests.
- The right menu shows your graduation progress and what you still need to complete. For details on the classes you have completed, you can click the historical grades button from the top menu bar.
- The middle menu shows your progress through course selection. As you select classes, it will update your progress changing from red to green. The total hours requested as well as hours needed will update automatically (located above the progress bar).

- When you are finished, the bar will be green.
In order to select your courses, you need to click on Add Core.

Teacher recommendations will look like this.

If you have questions about a class or why you cannot take a class, see the Course Selection Guide located on the HS guidance website for course and pre-requisite information.

Your course selection screen will look like this.
Once you have completed your requests, **Print** by clicking on the **Print Requests link** under the requests.

Return requests printouts to the Counseling Office by Thursday, February 14, 2019.

**Parent Override Form** is located on the HS guidance website.
## Graduation Requirements
### Scholar’s Diploma - 29 Credits

### English 5.0 Credits
- English I ELA I
- English I ELA II
- English II
- English III
- English IV

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>TOTAL</td>
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### Math 4.0 Credits

<table>
<thead>
<tr>
<th>Course</th>
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### World Language 3.0 Credits

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### Social Studies 4.0 Credits

<table>
<thead>
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<tr>
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### Science 4.0 Credits
- Biology
- Chemistry

<table>
<thead>
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<th>Course</th>
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### Electives 6.0 Credits

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<tbody>
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### Health/PE/Driver’s Ed. 2.0 Credits
- PE
- Health 10
- PE 12
- Health 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

### Required Courses 1.0 Credits
- Creative Arts
- Scholar’s Seminar

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<table>
<thead>
<tr>
<th>Overall</th>
<th>29</th>
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</table>
## Graduation Requirements

### Traditional Diploma - 26 Credits

<table>
<thead>
<tr>
<th>English 5.0 Credits</th>
<th>Math 4.0 Credits</th>
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</thead>
<tbody>
<tr>
<td>English I ELA I</td>
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</tr>
<tr>
<td>English I ELA II</td>
<td></td>
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<tr>
<td>English II</td>
<td></td>
</tr>
<tr>
<td>English III</td>
<td></td>
</tr>
<tr>
<td>English IV</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Science 3.5 Credits</th>
<th>Required Courses 1.0 Credits</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Creative Arts</td>
</tr>
<tr>
<td>Chemistry &amp;/or Physical Science</td>
<td>Tech/Comp Science</td>
</tr>
<tr>
<td>Environmental Science</td>
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</tr>
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<td><strong>TOTAL</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Health/PE/Driver's Ed. 2.0 Credits</th>
<th>Electives 7.5 Credits</th>
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<td>PE</td>
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<tr>
<td>Health 10</td>
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<td>PE 12</td>
<td></td>
</tr>
<tr>
<td>Health 12</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Studies 3.0 Credits</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>0.0</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Overall</strong></th>
<th><strong>26</strong></th>
</tr>
</thead>
</table>
COURSE SELECTION INFORMATION FOR STUDENTS ENTERING 9TH GRADE

Each 9th grade student is required to carry the following course work:

<table>
<thead>
<tr>
<th>All 9th grade students will be recommended by their 8th grade teachers for:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. English I (2 courses)</strong></td>
</tr>
<tr>
<td>• ELA I</td>
</tr>
<tr>
<td>• ELA II</td>
</tr>
<tr>
<td><strong>2. U.S. History</strong></td>
</tr>
<tr>
<td><strong>3. Math (2 Courses based on current 8th grade course)</strong></td>
</tr>
<tr>
<td>• Introduction to Probability &amp; Statistics and Extended Topics</td>
</tr>
<tr>
<td>• Geometry</td>
</tr>
<tr>
<td>• Algebra I</td>
</tr>
<tr>
<td>• Algebra II</td>
</tr>
<tr>
<td><strong>4. Science (1 Course)</strong></td>
</tr>
<tr>
<td>• Honors Biology</td>
</tr>
<tr>
<td>• College Prep or Academic Physical Science</td>
</tr>
<tr>
<td><strong>5. Electives</strong></td>
</tr>
<tr>
<td>All 9th grade students will select electives totaling 2.0 credits.</td>
</tr>
<tr>
<td>Students are STRONGLY encouraged to select electives that meet graduation requirements, including:</td>
</tr>
<tr>
<td>• PE</td>
</tr>
<tr>
<td>• Creative Arts</td>
</tr>
<tr>
<td>• Computer/Technology – Introduction to Comp. Sci.</td>
</tr>
<tr>
<td>Students recommended for CP English are STRONGLY encouraged to select 1.0 credits of a world language.</td>
</tr>
<tr>
<td>• Spanish, German, French</td>
</tr>
<tr>
<td>* Please refer to the course selection guide for a complete listing of 9th grade electives.</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
</tr>
<tr>
<td>Students taking Enrichment 9 (0.5 credits) can earn a total of 8.5 credits.</td>
</tr>
</tbody>
</table>
**Course Selection Guide**

**Planning Guide**


| 2019-2020 |  

| Curriculum Requirements are in **Bold Print** |

<table>
<thead>
<tr>
<th>Language Arts</th>
<th>Language Arts</th>
<th>Language Arts</th>
<th>Language Arts</th>
<th>Language Arts</th>
<th>Language Arts</th>
<th>Language Arts</th>
</tr>
</thead>
</table>

**Note:** All students must complete 6 credits of English, 3 credits of history, 3 credits of science, 2 credits of mathematics, 1 credit of foreign language, and 4 credits of elective courses.
<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credit</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th Grade Digital Photography</td>
<td>0.5</td>
<td>Engineering Drawing and Design</td>
<td>1.0</td>
</tr>
<tr>
<td>Accounting II</td>
<td>1.0</td>
<td>Engineering Drawing and Design</td>
<td>0.5</td>
</tr>
<tr>
<td>AP Computer Science</td>
<td>1.5</td>
<td>Film Production</td>
<td>0.5</td>
</tr>
<tr>
<td>Applied Physics &amp; Technology</td>
<td>1.0</td>
<td>Honors Engineering II</td>
<td>1.0</td>
</tr>
<tr>
<td>Architectural Design II</td>
<td>1.0</td>
<td>Honors Introduction to Engineering</td>
<td>1.0</td>
</tr>
<tr>
<td>Architectural Drawing</td>
<td>1.0</td>
<td>Introduction to Business</td>
<td>0.5</td>
</tr>
<tr>
<td>Architectural Drawing</td>
<td>0.5</td>
<td>Introduction to Computer Science</td>
<td>0.5</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>ECAT - 4.0</td>
<td>Introduction to Computer/Video Game Programming</td>
<td>0.5</td>
</tr>
<tr>
<td>Broadcast Journalism</td>
<td>0.5</td>
<td>Introduction to Industrial Technology</td>
<td>0.5</td>
</tr>
<tr>
<td>C.A.D.</td>
<td>1.0</td>
<td>Java Programming</td>
<td>1.0</td>
</tr>
<tr>
<td>C.A.D.</td>
<td>0.5</td>
<td>Manufacturing/Engineering Technology</td>
<td>1.0</td>
</tr>
<tr>
<td>Commercial Art</td>
<td>ECAT - 4.0</td>
<td>Mobile APP Development</td>
<td>1.0</td>
</tr>
<tr>
<td>Computer Graphics I</td>
<td>0.5</td>
<td>Office Management</td>
<td>ECAT - 4.0</td>
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<tr>
<td>Computer Graphics II</td>
<td>0.5</td>
<td>Pathways</td>
<td>0.5</td>
</tr>
<tr>
<td>3D Animation and Modeling in Maya</td>
<td>1.0</td>
<td>Python: An Introduction to Programming</td>
<td>1.0</td>
</tr>
<tr>
<td>Computer Network Administration - H</td>
<td>ECAT - 4.0</td>
<td>Technical Drawing</td>
<td>1.0</td>
</tr>
<tr>
<td>Computer/Video Game Programming II</td>
<td>0.5</td>
<td>TV Production I</td>
<td>0.5</td>
</tr>
<tr>
<td>Computing for College &amp; Workplace</td>
<td>0.5</td>
<td>TV Production II</td>
<td>0.5</td>
</tr>
<tr>
<td>Digital Media Technology I</td>
<td>1.0</td>
<td>Web Design I</td>
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<tr>
<td>Digital Media Technology I</td>
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<td>Welding Technology</td>
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<tr>
<td>Digital Media Technology II</td>
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<td>Veterinary Science</td>
<td>ECAT - 4.0</td>
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<td>Digital Photography I</td>
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</tr>
<tr>
<td>Digital Photography II</td>
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## Choices for Creative Arts Requirement

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credit</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Major I</td>
<td>1</td>
<td>Foods and Nutrition</td>
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<tr>
<td>Art Major II</td>
<td>1</td>
<td>Foods and Nutrition II</td>
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<tr>
<td>Drawing</td>
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<td>Food for Life</td>
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</tr>
<tr>
<td>Portfolio</td>
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</tr>
<tr>
<td>Intro to Painting</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Sculpture</td>
<td>0.5</td>
<td>Contemporary Topics in FCS</td>
<td>0.5</td>
</tr>
<tr>
<td>Art History and Art Appreciation</td>
<td>1</td>
<td>Sewing, Textile Arts, and Fashion 9, 10, 11, 12</td>
<td>0.5/1.0</td>
</tr>
<tr>
<td>AP Art History</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Studio Art</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illustrative Drawing for Comic Book Art</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceramics I</td>
<td>0.5</td>
<td>Managing Independence/Taking Charge of your Life</td>
<td>0.5</td>
</tr>
<tr>
<td>Ceramics II</td>
<td>0.5</td>
<td>Understanding Children</td>
<td>0.5</td>
</tr>
<tr>
<td>Jewelry</td>
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<td></td>
</tr>
<tr>
<td>Computer Graphics I</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Graphics II</td>
<td>0.5</td>
<td>Interior Design and Housing I</td>
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</tr>
<tr>
<td>3D Animation and Modeling in Maya</td>
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<td>Interior Design and Housing II</td>
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<tr>
<td>9th Grade Digital Photography</td>
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<td>Band 9, 10, 11, 12</td>
<td>0.5/1.0</td>
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<tr>
<td>Digital Photography I</td>
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<td>Choir 9, 10, 11, 12</td>
<td>0.5/1.0</td>
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<tr>
<td>Digital Photography II</td>
<td>0.5</td>
<td>Band/Choir 9, 10, 11, 12</td>
<td>0.5/1.0</td>
</tr>
<tr>
<td>Introduction to Industrial Technology</td>
<td>0.5</td>
<td>Madrigals</td>
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<tr>
<td>Digital Media Technology Level 1</td>
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<td>Chamber Singers</td>
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<tr>
<td>Digital Media Technology Level 2</td>
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<td>Music Appreciation – American Popular Music</td>
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<td>Music Major</td>
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<td>Engineering Drawing and Design</td>
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<td>Strings Ensemble</td>
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<td>Architectural Design II</td>
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</tr>
<tr>
<td>Computer Aided Drafting (CAD)</td>
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<td>Rock Ensemble</td>
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<td>Best of Baking</td>
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<tr>
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<td>ECAT - 4.0</td>
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<tr>
<td>Cosmetology</td>
<td>ECAT - 4.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Course Offerings
Art, Industrial Arts & Family Consumer Sciences

The department includes instruction in the fields of Art, Industrial Arts and Family and Consumer Sciences. Elective courses are provided for the student who wishes to pursue education in the various art based fields for career purposes or for personal enrichment. Both the technical and the practical aspects of each course are emphasized as students prepare to enter the adult world. In some courses, 11th and 12th grade students may schedule up to 2 credits for in-depth study and career preparation.

All courses emphasize the application of knowledge to real life experiences and 21st Century Skills. Career education and work are the basis of many courses as they relate to specific occupations in the arts, industry and technology, and human services and family life. Some courses are not included in class rank or grade point average.

The .5 credit graduation requirement in the Creative Arts may be fulfilled with the satisfactory completion of any of the courses from the following Art/FCS/Tech Ed offerings in this section and can be taken anytime during the high school career. Please take note of the grade level offerings for each elective course.

Fine Arts

ART MAJOR I
(18 Weeks) 1.0 Credit
Grades 9 through 12

71021 This course gives the student an in-depth study into a variety of media, techniques, styles and subject matter. Students will gain a greater understanding of their strengths and preferences in art-making as well as the ability to critique. Major units of study will include drawing, painting, two and three dimensional design and mixed media. **A sketchbook is required.** This course is required for invitation into the National Art Honor Society (to be invited, you must also take one other art course, and hold a 90% average in all art courses).

ART MAJOR II
(18 Weeks) 1.0 Credit
Grades 10 through 12
Prerequisite: Successful completion of Art Major I

71022 Art Major II is a course for the advanced art student who intends to pursue a possible career in an art-related field. Coursework will focus on the Elements and Principles of Design as well as the mastery of media and critiquing. Projects focus on the basic portfolio requirements for admittance to the art field/college. A critical review paper is required and a **sketchbook must be purchased.**
DRAWING
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71062 This course is for students of all experience levels – from the novice interested in developing fundamental drawing techniques, to the more experienced artist seeking to advance and hone their skill. With Elements of Art and Principles of Design as a foundation, students will begin by drawing from life and will use their skills and body of knowledge to create imaginative compositions. Students will experience a variety of techniques and drawing media including charcoal, pencil, pen, colored pencils, pastels, and markers. A sketchbook is required.

PORTFOLIO
(18 Weeks) 1.0 Credit
Grades 11 and 12
Prerequisite: Successful completion of Art Major II
71023 This course is for the serious art student who is interested in creating an extensive portfolio for college admissions and possible art-related career. Art projects are structured as creative advanced-level problem-solving assignments designed to increase technical skill, conceptual creativity, planning skills and critiquing. Students enrolling in AP Studio Art should not sign up for Portfolio. This course usually runs in the fall semester only.

INTRO TO PAINTING
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71072 This course is for students of all skill levels who enjoy creating art and are interested in experimenting with the artistic process. The course will focus on basic drawing skills, various painting techniques and genre, composition, color theory, and a brief art historical survey. The course will include: pastel, watercolor, tempera, gouache, acrylic painting. A sketchbook is required.

SCULPTURE
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71006 This course introduces students to 3-dimensional art. Students will learn 3D design, a number of additive and subtractive sculptural methods, study the human form and anatomy and explore interesting historical and contemporary sculptures and sculptors. They will create original pieces of 3-dimensional art from a variety of materials, including clay, modelling and mold-making materials, and recycled/found materials. Students will also learn how to create conceptual drawing in order to solidify concepts and assist in their design process. A sketchbook is required.
ART HISTORY AND ART APPRECIATION
(18 Weeks) 1.0 Credit
Grades 11 and 12
71013 Students will explore the major art movements from prehistoric to modern times. This course is for the student interested in taking a critical look at why art is created and its importance in society. Course will work parallel with AP Art History curriculum but students will not be required to take the AP Art History test. This course requires a high degree of commitment to academic work.

ADVANCED PLACEMENT ART HISTORY
(18 Weeks, plus Seminar) 1.50 Credits
Grades 11 and 12
71012 & 71012S AP Students will explore the major art movements and their significance to society from prehistoric to modern times. Students will learn how and why art is a crucial part of our history and culture. This course prepares students to take the AP Art History exam. Students are required to take this exam. This course requires a high degree of commitment to academic work.
Students taking AP Art history are required to take an AP Art history seminar course number 71012S. Students must select both courses.

ADVANCED PLACEMENT STUDIO ART
(18 Weeks plus 2nd Semester Seminar) 1.50 Credits
Grade 11 and 12
Prerequisite: Portfolio review and approval of instructor. Successful completion of Art Major II
71011 & 71011S Advanced Placement Studio Art is intended for highly motivated students who are seriously interested in the study of art. Students must be aware that AP Studio Art involves significantly more commitment than the typical high school art course. Emphasis will be placed on the areas of breadth of portfolio, quality of artwork, and a concentration of individual interests. Art projects are structured as creative advanced-level problem-solving assignments designed to increase technical skill, conceptual creativity, planning skills, and critiquing. All students must present a completed portfolio to the AP Examination Committee for evaluation in May. Summer assignments are required for this course. Students will take the 1.0 credit course in the fall semester, and the 0.5 credit seminar course in the spring semester.

ILLUSTRATIVE DRAWING FOR COMIC BOOK ART
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
71064 This is a drawing-based course for students interested in learning how to create popular illustrated media such as comic books, Manga / Anime, computer games, fantasy and graphic novels. This course explores the process of developing comics, with projects ranging from single-panel style comics to a multi-page comic book. Students will develop original imaginary characters, costumes, and landscape settings using a variety of drawing strategies, and will each construct a unique narrative in the form of a short
graphic novel with a professional-looking cover. A variety of drawing media will be used, including Prismacolor markers, pen and ink, and colored pencils. A sketchbook is required.

CERAMICS I
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71044 This course will introduce students to the wonderful world of clay. Using your hands as the primary tool, students will pinch, pull, build, coil and form clay into a variety of functional and decorative pieces. A variety of traditional and non-traditional techniques and processes will be explored. There is a $5 lab fee for this course.

CERAMICS II
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: Successful completion of Ceramics I and instructor’s approval
71045 This course will build upon the knowledge and techniques of Ceramics I. Focus will be on the pottery wheel and increasing students’ skills at hand building and sculpture. All students will develop their design sensibility by learning about the formal properties of art. There is a $5 lab fee for this course.

JEWELRY
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71036 This course will focus primarily on creating jewelry and small metal objects. Students will learn how to cut, shape and solder metal to create contemporary pieces of wearable and decorative art. Other materials will be used to help students develop a strong design sensibility and aid in their creativity. This course will follow the current trends of fine art crafts, where craftspeople create museum quality objects that are as sophisticated and refined as fine art pieces. There is a $5 lab fee for this course.

COMPUTER GRAPHICS I
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
71053 In Computer Graphics I students will learn to use computer technology as a tool to create fine art. This course will cover the basic functions and tools in Adobe Photoshop and Adobe Illustrator. Using Photoshop and Illustrator students will learn various ways to edit and manipulate images, text and also explore the techniques of vector drawing. A strong emphasis will be placed on the principles of graphic design. This course is for the student interested in digital media and possibly a career in computer graphics, web design, game design, graphic design, animation and illustration.

COMPUTER GRAPHICS II
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: Successful completion of Computer Graphics I and approval of instructor
71054 In Computer Graphics II students will learn to use computer technology as a tool to create fine art. This course will build on the basic functions and tools in Adobe Photoshop and Adobe Illustrator as well as introduce Flash animation. A strong emphasis will be placed on the principles of graphic design. This
course is for the student interested in digital media and possibly a career in computer graphics, web
design, game design, graphic design, animation and illustration.

3D ANIMATION AND MODELING IN MAYA
(18 Weeks) 1.0 Credit
Grades 10 through 12
Recommended: Completion of Computer Graphics I or Intro to Computer Science
71052 In this course students will learn to use Maya and be provided a background in the basics of 3D
modeling, texturing, animating, and rendering. Students will learn to Model, Create materials and Textures
for 3D Objects, Animate, Rigging and Skinning of 3D characters and Rendering and Lighting. You will gain
a solid understanding of how Maya is used to create professional 3D animation for film, television, and
games, and be able to begin creating your own impressive animations.
Students will have the opportunity to print their creations using a 3D Printer.

9TH GRADE DIGITAL PHOTOGRAPHY
(18 Weeks every other day) 0.5 Credit
Grade 9 only
71507 This is an introductory course specially designed for 9th grade students. Through a hands-on
approach, it teaches the basics of digital camera operation, picture-taking, and Adobe Photoshop.
Students apply learned skills through photo projects designed to ignite their imagination and observational
skills. There is a $5 lab fee for this course.

DIGITAL PHOTOGRAPHY I
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
71055 This introductory course provides students with an extensive overview of the world of
Photography; everything from how an image is made to how an image is manipulated. Through a hands-
on, learn by doing approach, students learn the technical aspects of operating a digital camera.
Understanding how to take better photos is learned through picture taking assignments that apply
compositional and seeing techniques. Basic and intermediate skills in Adobe Photoshop also will be
learned in order to do photo re-touching and creative manipulations. Stop motion video make this a
course not to be missed! There is a $5 lab fee for this course.

DIGITAL PHOTOGRAPHY II
(18 Weeks every other day) 0.5 Credit
Grades 11 and 12
Prerequisite: Successful completion of and approval of instructor.
71056 This course is designed to cater to the individual needs of students that have a strong interest in
fine tuning their photographic skills. Advanced picture-taking and Photoshop techniques will be explored
with an emphasis on creating images with purpose and meaning. Projects will involve more outside picture
taking as well as field trips. Students must have their own digital camera for this advanced course. There
is a $5 lab fee for this course.
Industrial Arts Education

INTRODUCTION TO INDUSTRIAL TECHNOLOGY
(18 Weeks every other day) 0.5 Credit
Grade 9 - 12
72103 Ninth grade students will have the opportunity to explore the various areas of technology education. Students will work on the design and creation of their own custom skateboard. Students will create their design in AutoCAD and use machines to build their skateboard. Students will also use Photoshop and learn some basic photography throughout the course. **There is a $10 lab fee for this course.**

DIGITAL MEDIA TECHNOLOGY LEVEL I
(18 Weeks) 1.0 Credit
Grades 9 through 12
72224 This course will explore the area of digital photography, video and virtual reality using Canon Rebel T3i SLR and 360 degree VR cameras. Students will learn critical skills in the areas of digital photography, digital video editing/production, and virtual reality. We will also address the careers and future skills needed to be successful in a career outside of school. **There is a $10 lab fee for this course.**

DIGITAL MEDIA TECHNOLOGY LEVEL I
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
72223 This course is a condensed version of the Digital Media Technology course. We will explore the area of digital photography video and virtual reality using Canon Rebel T3i SLR and 360 degree VR cameras. Students will learn critical skills in the areas of digital photography, digital video editing/production, and virtual reality. We will also address the careers and future skills needed to be successful outside of school. **There is $10 lab fee for this course.**

MANUFACTURING/ENGINEERING TECHNOLOGY
(18 Weeks) 1.0 Credit
Grades 10 through 12
Prerequisite: Successful completion of Intro to Probability and Statistics
72131 Students will explore and develop the skills needed to be successful in a manufacturing environment. There is an emphasis on teamwork, problem solving, critical thinking and engineering of projects and the processes related to these areas. Projects include custom designed skateboards, wooden Bluetooth speakers, Adirondack chairs and other custom projects. **There is $10 lab fee for this course.**
TECHNICAL DRAWING
(18 Weeks) 1.0 Credit
Grades 9 through 12
72012 Technical drawing is open to any student who wishes to be a drafter, an engineer, a designer, an architect, a tradesman or any other profession that requires knowledge of technical drawing, commonly thought of as drafting or mechanical drawing. Technical drawing will introduce students to creating basic plans and to visually communicate how an object is made and how the object functions. The course is built on a logical sequence of topics that enables the student to gain the skills needed to complete mechanical drawings which could be used to create custom objects/parts. Students will learn basic hand drawing techniques and how to use AutoCAD, students will work on creating drawings for their own design, product, or project as part of this course.

TECHNICAL DRAWING
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
72013 This course is an abbreviated version of course 72012 for those students unable to schedule a full 18 weeks. As this is an abbreviated version topics will not be covered in as much depth and some more advanced topics will be excluded.

ARCHITECTURAL DRAWING
(18 Weeks) 1.0 Credit
Grades 9 through 12
Prerequisite: Successful completion of Technical Drawing
72022 This course is a combination of drawing techniques, design, and knowledge of construction materials. Through the study of these topics and the use of AutoCAD students will design and create a set of plans for a single-family residence. This course is open to all students who completed at least 9 weeks of technical drawing and wish to be an architect, a building tradesman, a future homeowner, an interior designer or any professional that requires knowledge of architecture. For the student serious about majoring in architecture at college Art Major I or Drawing are also recommended to help students develop a creative portfolio which many colleges and universities require.

ARCHITECTURAL DRAWING
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
Prerequisite: Successful completion of Technical Drawing
72023 This course is an abbreviated version of course 72022 for those students unable to schedule a full credit.
ENGINEERING DRAWING AND DESIGN
(18 Weeks) 1.0 Credit
Grades 10 through 12
Prerequisite: Successful completion of Technical Drawing
72032 Engineering Drawing and Design students will explore 3D parametric modeling via AutoDesk Inventor/Fusion. Students will learn how to model, render, animate, and run simulations on their designs in 3D. Combining this knowledge with the use of 3D printers students will be able to create physical models of their work.

ENGINEERING DRAWING AND DESIGN
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: Successful completion of Technical Drawing
72033 This course is an abbreviated version of course 72032 for those students unable to schedule a full credit. This course will not cover the basic machining concepts using the metal mill and metal lathe.

ARCHITECTURAL DESIGN II
(18 Weeks) 1.0 Credit
Grades 11 and 12
Prerequisite: Successful completion of Architectural Drawing
72024 This advanced course is for the serious architecture student who may be planning a career in one or more of the various architecture fields. This course builds on knowledge gained in Architectural Drawing. Students will use AutoDesk Revit, which is a 3-D architectural modeling programs, to create their own green/energy efficient building. Students will produce various plans and renders of their design before learnings modeling techniques to create a scaled architectural model using various materials. There is a $10.00 lab fee for this course.

COMPUTER AIDED DRAFTING (C.A.D.)
(18 Weeks) 1.0 Credit
Grades 10 through 12
Prerequisite: Successful completion of Technical Drawing
72052 This course is open to all students who wish to explore the exciting world of computer aided drafting. Learn the skills necessary to use architectural and engineering based 3-D modeling programs to complete various drawings and projects. Programs that will be taught include AutoCAD, AutoDesk Inventor, AutoDesk Revit, and AutoDesk Maya. Programs will not be covered in as much depth as the course that specifically deals with each program.

(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: Successful completion of Technical Drawing
72053 This course is an abbreviated version of course 72052 for those students unable to schedule a full 18 weeks.
Family and Consumer Sciences

**BEST OF BAKING**
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
73004 Principles and preparation of quick and breads, pastry, cakes and cookies and healthy alternatives. Students will learn through written assignments, videos, teacher demonstrations and projects, as well as participation in culinary labs. A performance project and/or a written final assessment will be required.

**FOODS AND NUTRITION I**
(18 Weeks) 0.5 Credit
Grades 10 through 12
73011 This course provides an opportunity for the student to learn to plan, purchase, cook, and serve tasty meals with an emphasis on good nutrition, cooking techniques and saving money. Students will learn through written assignments, videos, teacher demonstrations and projects as well as participation in culinary labs.

**FOODS AND NUTRITION II**
(18 Weeks) 0.5 Credit
Grades 10 through 12
Prerequisite: Foods and Nutrition I
73017 This course will also provide an opportunity for the student to learn to plan, purchase, cook, and serve tasty meals with an emphasis on good nutrition, cooking techniques and saving money. Students will learn through written assignments, videos, teacher demonstrations and projects as well as participation in culinary labs.

**FOOD FOR LIFE** (runs every even year)
(18 Weeks) 0.5 Credit
Grades 11 and 12
Prerequisite: Foods and Nutrition I
73014 Students will plan and prepare nutritionally significant foods that meet the needs of people throughout the life span. An emphasis on special diets for health issues, small appliance use and foods associated with all meals will be part of this course.
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**SEWING I**
74010 – (18 Weeks every other day) 0.5 Credit  
74011 - (18 Weeks) 1.0 Credit  
Grades 9 through 12

This course is designed to introduce students to textiles and basic sewing skills. Students will learn about different fabrics, use a variety of construction techniques including hand and machine sewing and have the opportunity to use different types of sewing equipment. Students will complete several sewing projects, such as a pillowcase, gym bag, boxer shorts and slippers. Students may need to supply a portion of their own supplies and materials. Cost will be kept to a minimum.

**SEWING II, III, IV**
Grades 10 through 12

Prerequisite: Successful completion of 74011  
0.5 Credit  
II - 74012 | III - 74014 | IV - 74016  
1.0 Credit  
II - 74013 | III - 74015 | IV - 74017

In this course, students will further their sewing skills and select projects based on individual level of expertise. Students may need to supply their own patterns and fabrics. Careers in the apparel industry will be explored. Topics will include understanding the pattern, fashion coordination and historical influences.

**MANAGING INDEPENDENCE/TAKING CHARGE OF YOUR LIFE**
(18 Weeks every other day) 0.5 Credit  
Grades 10 through 12  
73062 You’ll soon be on your own! This course will give you the information you need to “take charge of your life.” You’ll become more aware of consumer issues such as budgeting, banking, using credit cards, insurance needs, selecting your first car and apartment, consumer rights and responsibilities and how advertising affects your spending habits.

**UNDERSTANDING CHILDREN**
(18 Weeks every other day) 0.5 Credit  
Grades 10 through 12  
73073 This course is designed for students interested in learning how children develop from conception to three years of age. The topics of pregnancy and childbirth will be covered as well as voluntary simulation experiences using “Real Care Baby” through RealityWorks, Inc. and the “Empathy Belly”. Emphasis will also be placed on theorists such as Piaget and Erikson and others who have made a major contribution to the study of children and how they develop. Students planning careers in education, managing and working in day care centers, pediatrics, nursing and social work will benefit from this course as well as those students planning on being a parent.
INTERIOR DESIGN AND HOUSING I
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
73032 This course is for students interested in exploring the world of Interior Design as well as the financial and legal considerations of home ownership. Topics include color schemes, elements and principles of design, furniture styles and arrangement, architectural styles, window, wall and floor treatments. Students considering a career in the field of interior design are encouraged to enroll in this course.

INTERIOR DESIGN AND HOUSING II
(18 Weeks every other day) 0.5 Credit
Grades 11 and 12
Prerequisite: Successful completion of 73032 and teacher recommendation
73033 Students will continue using design theory established in Level I, by applying this knowledge to room designs for people with special needs, a child’s room/nursery, color theme designs, and the creation of a bathroom. The Final Project is recreating a design for an existing room in the student’s home or a future residence. Students will use a specific theme, an assigned object and will attempt to stay within a specific budget.
Business/Computer Science

Start your college career while in high school. Get the necessary skills, knowledge and attitude for success in this highly demanding field now. It’s not just an elective; it truly is a necessity for life! The Computer Science division of the Business and Computer Science Department provides training for specific skilled programs. Computer courses are offered based upon the students’ interest and future vocational needs. All courses are held in computer laboratories with stations designed for each individual student. We offer the most up-to-date versions of applications and keep current by meeting with area businesses and post-secondary schools annually.

INTRODUCTION TO BUSINESS
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
52015 Introduces students to the world of business and helps to prepare them for the economic roles of consumer, worker and citizen. This course serves as a background for other business courses students choose to take in high school and/or college. Students learn about the relationship and impact of business to society in which they are citizens, consumers, and producers.

ACCOUNTING I
(18 weeks) 1.0 Credit
Grades 10 through 12
52022 This is an excellent course for anyone undecided about a choice of career or college major as well as for those for students planning a college career in Accounting, Business Administration, Marketing, Finance, or Management. Accounting I will provide students with an understanding of terminology, principles, and procedures that can be applied to keeping financial records for personal use, service, and merchandising businesses. The students will also explore possible careers that utilize Accounting skills. Computerized accounting software and a simulation will be used to illustrate accounting concepts.

ACCOUNTING II
(18 weeks) 1.0 Credit
Grades 11 and 12
Prerequisites: Successful completion of Accounting I
52023 This course is an excellent head start for anyone studying business and/or immediate employment beyond high school. Accounting II continues the developing skills introduced in Accounting 1. Accounting for a merchandising business organized as a corporation will be explored including Adjusting Entries, Closing Entries, Depreciation, Intangible Assets, Financial Statement Analysis and Valuation.
FINANCIAL LITERACY
(18 weeks) 1.0 Credit
Grades 10 through 12
52037 This hands-on course is a must for ALL students. The course is designed to assist students in the exploration of personal finance. Students will discover new ways to maximize their earnings potential, develop strategies for managing resources, explore skills for the wise use of credit, and gain insight into the different ways of investing money. Students will participate in many online learning activities including financial simulations in addition to visits from outside guest speakers. Topics to be covered include personal budgeting, banking and investing, credit, tax preparation, planning for your financial future, and insurance.

PATHWAYS
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
90054 “So, what do you want to do with your life?” How many times have you heard that question? Students who elect Pathways will have the opportunity to explore this question and many more by participating in a unique “road trip” experience. Meet and learn from community leaders as you plan for your own transition from high school to post-secondary education and career. Pathways is an innovative self-discovery course that empowers you to explore opportunities for your future.
• Unit 1: The Million Dollar Question
• Unit 2: Exposure (What Do You Want?)
• Unit 3: Self-Construction (Exploring Your Interests)
• Unit 4: Roadtrip Nation! (Planning for Your Future)

ENTREPRENEURSHIP
(18 weeks) 1.0 Credit
Grades 11 and 12
52053 This course explores small business management and marketing concepts. Communication and critical thinking skills are fostered through class discussion, presentations, group collaboration, application of theories, on-line and real life simulations. A project-based & hands on course, students have the opportunity to work together with others on a task to problem solve, develop, design, market and present in a “Shark Tank” atmosphere. Students will be grouped into teams and create surveys, data posters, promotional advertisements, logos and other marketing materials. At the completion of this course each student will have produced a written business plan and delivered a presentation of that plan. This course will also introduce students to the fundamentals of marketing and takes an integrated approach to learning key marketing concepts. Marketing functions are not presented as independent activities, but rather as a set of skills and knowledge that is combined with economics, finance, and career planning.
RETAIL MANAGEMENT I
(18 weeks every other day) 0.5 Credit
Grades 11 and 12
52071 Retail Management examines the overall organizational structure and relationships within a retail organization. It emphasizes sales supporting functions and current trends in the industry. Students will also participate in hands-on projects that include: receiving, marking, stock, warehousing, delivery, packing, adjustments, credit, accounts payable, security, workrooms, and personnel.

INTRODUCTION TO COMPUTER SCIENCE
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
53010 Learn programming and have fun along the way! In Introduction to Computer Science, you will learn how to program graphical computer programs such as simulations and games, using the Java Programming Language and the Greenfoot environment. Exercises are structured around real, hands-on development tasks: first there is a problem to solve, then we look at language constructs and strategies that help us solve the problem. The emphasis throughout the course is to make computer programming interesting, relevant, and enjoyable while learning the Java programming language.

WEB DESIGN I
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
53091 In this project-based course the students will learn to create and manipulate creative web pages using Dreamweaver, Wix, WordPress, and how to create and edit images using Photoshop and Giphy. Web Design 1 introduces HTML (HyperText Mark-Up Language), CSS (Cascading Style Sheets) and related coding languages that provide the foundation for building web sites. The students will also have fun creating their own websites on topics of their choice!

INTRODUCTION COMPUTER/VIDEO GAME PROGRAMMING
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
53042 The focus of this course will be on understanding the theory of designing a game for player experience regardless of platform. The class will explore the fundamentals of game design. The students will learn how to design innovative, emotionally engaging game experiences. The students will be introduced to Construct 2 and Unity as game design programs. Successful completion of this course will allow the student to move on to Game Design II where students create their own games.
COMPUTER/VIDEO GAME PROGRAMMING II
(18 weeks every other day) 0.5 Credit
Grades 9 through 12
Prerequisite: Successful completion of Introduction Computer/Video Game Programming

53043 The Game Design II Course gives students multiple vectors for further maturing their game and App design skills. Students will read some of the top writing in game studies, on topics related to both theory and practice. Students will also play games that illustrate various design principles and prepare them for final project tasks. Students will create their own games, playtest them, and analyze their work as well as the work of other students.

ADVANCED PLACEMENT COMPUTER SCIENCE
(18 weeks) 1.5 Credit
Prerequisite: Introduction to Java or Python

53031 & 53031 S The goals of the AP Computer Science course are comparable to those in an introductory course for students of computer science offered in college and university computer science departments. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. The AP Computer Science course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require involvement with technology.

JAVA: AN INTRODUCTION TO SOFTWARE ENGINEERING
(18 weeks) 1.0 Credit
Grades 10 through 12
Prerequisite: Introduction to Computer Science and Completion of Geometry

53082 Honors This course is an introduction to software engineering, using the Java programming language. Java is a modern, object-oriented language. The major advantages of Java include its portability and use on the Internet. The course focus is on developing high quality, working software that solves real problems. Students who do satisfactorily in this course will be prepared to take the Advanced Placement Computer Science course.
MOBILE APP DEVELOPMENT
(18 weeks) 1.0 Credit
Grades 9 through 12
53072 Introduces application development for mobile computing devices such as the iPhone, iPad or Android. Students learn basic mobile development concepts that apply to multiple platforms. Topics include an introduction to user interface design, database connectivity, and network communications. The course includes a project that challenges the student to create a small mobile app of their choosing.

PYTHON: AN INTRODUCTION TO PROGRAMMING
(18 weeks) 1.0 Credit
Grades 9 through 12
Prerequisite: Introduction to Computer Science
56073 This course will provide a gentle, yet intense, introduction to programming using Python for highly motivated students with little or no prior experience in programming. The course will focus on planning and organizing programs, as well as the grammar of the Python programming language. It is fast, runs everywhere and is open Source. Due to its power and complete object model, Python is the scripting language choice for many large organizations and is used by sites like YouTube and Dropbox. This project based course will be fun and interesting to those curious about programming.
English Language Arts

The English Language Arts program of studies is based on a combination of required and elective courses to satisfy the English credit requirements for graduation. To fulfill these requirements, students in grade nine must take ELA II and ELA II. Students in grade ten must take English II. Students in grade eleven may take English III. Students in grade twelve may take English IV. The Advanced Placement English courses may be substituted for English III and/or English IV.

ENGLISH I - ELA I (9th grade Sem. 1)
(18 Weeks) 1.0 Credit
10931 H, 10932 CP, 10933 A This course will introduce the English/Language Arts skills as they pertain to basic analysis of literature through literary elements, understanding of media literacy, acquisition of basic writing skills and the writing process, and an understanding of beginning oral presentation skills. Students will also engage in independent reading. Throughout the semester, students will be introduced to academic integrity and will be oriented to the library for research. Literature study will focus on different genres, including short stories and novels. In addition, students will analyze a variety of nonfiction pieces and will also receive instruction in metacognitive reading and note taking strategies, text complexity, vocabulary development, grammar, and evidence-based responses.

ENGLISH I – ELA II (9th grade Sem. 2)
(18 Weeks) 1.0 Credit
10941 H, 10942 CP, 10943 A This course will build on prior knowledge and previous foundations by emphasizing more sophisticated analysis of literature, continuing emerging oral presentation skills, and focusing on more advanced writing skills. Students will apply previously learned lessons of academic integrity and library orientation to integrate research that will culminate in a formal research paper. Students will be asked to consider a wide variety of rhetorical forms, purposes, and audiences while writing and reading. Literature study will focus on different genres, including poetry and dramas. In addition, students will analyze various nonfiction works. Students will also receive extended instruction in metacognitive reading and note taking strategies, text complexity, vocabulary development, grammar, and advanced evidence-based responses.

ENGLISH II
(18 Weeks) 1.0 Credit
11010 H, 11002 CP, 11003 A This course will focus on major American writers and their historical backgrounds. Major writers from the 19th and 20th centuries will be covered. This course will help students improve skills in composition, vocabulary development, and literary analysis. In addition, students will analyze both fiction and non-fiction texts. Emphasis will be placed on using textual evidence to support assertions. A research paper, outside readings and informal presentations will be included in the program of study.
ENGLISH III
(18 Weeks) 1.0 Credit
11101 H, 11102 CP, 11103 A - This English course examines World Literature, beginning with ancient texts, and ending in the modern Era. Additionally, there will be two or three outside reading novels and supplemental reading selections will be incorporated to enhance understanding and personal reflection. One of the purposes of reading, which will be our focus, is to analyze history, culture, and past lifestyles. Through written interpretation (essays, reader responses) and oral interpretation (speeches, discussions), we will gain tremendous insights from global issues and universal themes to achieve cultural literacy. Vocabulary, writing skills, research, language skills, communication, and in-depth analysis will also be major concentrations.

ENGLISH IV
(18 Weeks) 1.0 Credit
11201 H, 11202 CP, 11203 A This course will focus on improving writing, research, and speaking skills in preparation for college and the world beyond. Students will read and analyze techniques used in effective writing—primarily non-fiction—written by others. They will write frequently, modeling the skills and techniques represented in effective writing in various modes. There is a strong emphasis on revision, using both mechanical and stylistic techniques learned and practiced in class. Students will also conduct research and effectively use source support in their writing. The Senior English curriculum is based on the belief that writing is an essential skill for life—regardless of career choice.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION
(18 Weeks, plus Seminar) 1.50 Credits
Grade 12 only
Prerequisite: Successful completion of AP Language and Composition or 10th/11th English.
11205 AP This is an intense college-level study of literature and composition. Students will read challenging fiction, poetry, and drama, with a focus on how the various literary elements work together to create the whole. Major assessments will focus on written composition and presentations, though daily classes will emphasize a discussion format. This course is designed for committed individuals who love to read, who are intrigued by the power of the written word, who understand the value of analyzing literature for its deeper and varied meanings and who have an unwavering dedication to their individual success as a learner. Students must come to this course with a solid writing ability and a general interest to improve the style and quality of their writing, and must be willing to accept criticism of their writing and presentation skills from both the teacher and their peers. Ultimately, students will work together and with the teacher to create a learning community in which everyone develops a deeper understanding of literature and those skills required to effectively communicate that understanding through both written analysis and verbal presentations.

11205 S Students taking AP English Literature and Composition are required to take AP English Seminar course number 11205S. Students must select both courses on their course selection worksheet.
ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION
(18 Weeks, plus Seminar) 1.50 Credits
Grades 11 and 12
Prerequisite: Successful completion of AP Language and Composition or 10th/11th English.

11207 AP This is an intense college-level study of rhetoric, which includes close reading of non-fiction, writing adapted appropriately for the specific task and audience, and claim-based arguments supported by reasoned thinking and evidence. Students will engage in regular analysis of rhetorical techniques used in non-fiction articles and essays, practice non-fiction writing in its various modes (i.e., persuasive, narrative, descriptive, expository), and regularly participate in writing conferences and peer critiques as part of the revision process. Students will be required to produce a final portfolio of writings. This course is designed for committed individuals who are intrigued by the power of the written word, enjoy reading non-fiction, and desire to improve their persuasion and writing skills. Students must come to this course with a solid writing ability and a general interest in improving the style and quality of their writing. Students will work in a small-group team of learners, with the teacher, and with the class as a whole to develop a mastery of academic discourse.

11207 S Students taking AP English Literature and Composition are required to take an AP English seminar course number 11205S. Students must select both courses on their course selection worksheet.

CREATIVE WRITING I
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
12013 Students will be encouraged to compose a wide variety of writing, including poetry, drama, short stories, personal narratives and essays. The teacher will provide instruction, encouragement, and feedback. Students will also share their work with their peers, compile a portfolio, keep a daily journal, and read self-selected works. In addition, students will read about writers and writing and participate in discussions. Students will be encouraged to seek publication in The Golden Pen, the school’s literary magazine and outside publications.

CREATIVE WRITING II
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
12015 This course is designed for self-motivated students who wish to continue to improve their writing skills. They will revisit many of the techniques and procedures introduced in Creative Writing I as they delve deeper into the art of writing.

THEATRE ARTS AND DRAMA I
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
Prerequisite: Successful completion of core English courses
12041 Do you love acting or are you perhaps a bit stage struck? This course is for the beginning theatre student. Students will learn basic acting techniques through improvisation, pantomime, movement and voice exercises. Students will act, write and direct. Students also will be reading and analyzing plays, as well as learning about the history of the theatre.
THEATRE ARTS AND DRAMA II
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: Theatre Arts and the Drama I
12042 An actor never stops learning and practicing the lessons of theatre technique. This is a course for the advanced student of theatre who is interested in continuing to hone his/her acting skills and specializing in advanced study of playwriting, directing or some other theatre art. In addition, other theatre arts such as costuming, set and lighting design will be discussed. Students also will be reading and analyzing plays, as well as learning about the history of the theatre.

JOURNALISM
(18 Weeks, every other day) 0.5 Credit
Grades 9 through 12
12022 Journalism offers the writer of non-fiction the satisfaction of reporting on stories of your choice that might impact the community. Not only will journalism class help you further hone your writing skills, but it will show you how to tailor those skills to newspaper style, and, if you choose, prepare you for work on the Hat Chat. In addition, you will gain a thorough understanding of the history of American journalism, ethical responsibility of fair reporting and accuracy, interviewing skills, how to write different types of stories (hard news, feature stories, editorials, etc.), and the transition from print to digital news. This class is recommended for students who enjoy writing, especially non-fiction, and have an interest in current events and trends in the school community and the world beyond.

ENGLISH AS A SECOND LANGUAGE
(18 Weeks) 1.0 Credit
13001 (9), 13002 (10), 13003 (11), 13004 (12)
This is a course for those students whose first language is not English. After testing, each student is instructed in English grammar, vocabulary, reading and writing as well as conversation and cultural understanding. Administrative approval is required. Course numbers reflect each grade level.
EXPLORING CINEMA
(18 weeks, every other day) 0.5 Credit
Grades 10, 11 and 12
**12019** Are you an avid movie goer? Is there a certain director or actor whom you admire? Do you enjoy talking to your friends about your favorite movies? If so, Exploring Cinema may be a class for you. In this .5 credit elective, students will actively investigate the film industry as well as the groundbreaking accomplishments of modern movie making. Students will arm themselves with the knowledge of how framing, lighting and camera movement combine to convey various meanings, moods and themes. Additionally, students will learn about pioneers in the film industry such as Akira Kurosawa, Alfred Hitchcock, Steven Spielberg, Peter Jackson and M. Night Shyamalan. Further, students will also examine some of the most famous heroes and villains in film history such as Indiana Jones, Gandalf the Grey, Darth Vader and Norman Bates. Moreover, students will apply their cinema knowledge and produce an alternate ending of a film. Students should be prepared to engage in script writing, story boarding, filming, acting and editing. A variety of film genres will be explored based on the lists created by the accredited American Film Institute.

BROADCAST JOURNALISM
(18 Weeks every other day) 0.5 Credit
Grades 9 through 12
**12062** Have you ever watched the news and said, “Hey, I can do that!” or “I wonder what it takes to make the TV News happen?” This is your chance! After all, we consume news and other forms of broadcast journalism daily, both actively and passively. This class is designed to take that to the next level, so that not only are you aware of the ins and outs of what you are consuming on a much deeper level than previously, but you are also learning how to produce stories that matter in this critical industry! BROADCAST JOURNALISM focuses on the planning, gathering, videotaping, interviewing, writing and producing the TV news. We will dissect the news in depth and then it’s your turn to make it happen! This course focuses on basic video skills, public speaking skills, voice and diction training, news style writing, interviewing skills and small group communication. This course is a hands-on course, where you will learn how the news works, why it works, how to make it work, and why it matters.
TV PRODUCTION I: INTRODUCTION TO FILM, TV, & VIDEO PRODUCTION
(18 weeks) 0.5 Credit
Grades 9 through 12
12034 Watch film, TV or YouTube on a regular basis? Ever think about taking that further and creating your own media? This newly-redesigned course provides you with the knowledge and tools to make your own high-quality short films, TV programs, and YouTube. This introductory course is the first stop in learning these critical—and fun—skills.
Here, students learn basic theory of communications and how media is produced and participate in hands-on video projects that teach the concepts make TV, film, and online video happen. For example, students will learn basic camera operation, shot composition, lighting, editing techniques, audio basics, pre-production planning, storyboarding, basic scriptwriting and interviewing, among other skills. In “TV-1: Intro to Film, TV, & Video Production,” you will develop these skills through a series of fun and interesting projects and challenges, including music videos, commercials, vlogs, and more. Get in on the ground floor of this awesome field.

FILM PRODUCTION: FILMMAKING IN DEPTH
(18 weeks) 0.5 Credit
Grades 10 through 12
Prerequisite: TV Production I
12037 Did you ever want to make the films you enjoy so much at the movies? Here you can! In Film Production, students take the skills they have developed in TV1, an produce the genres of films they love, including action, thriller, epic, drama and others by first understanding good script writing and storyboarding, then studying examples and finally using the techniques to produce their own short length and even small feature films. In addition to writing, directing and producing films, students should also be ready to do some acting and many of the other roles in film production. Here, students will not only leave this course not only with a new appreciation of filmmaking, but will make narrative, experimental, and documentary films—and a portfolio film that they can call their very own. The very best will then be submitted to film festivals in the area. You will never look at films the same way, when you are making your own.

TV PRODUCTION II
(18 weeks) 0.5 Credit
Grades 10 through 12
Prerequisite: TV Production I
12035 Using the foundation formed in TV Production I, this course is all about taking your TV production skills to the next level in an authentic, exciting, and brand-new way. Here, students will be developing and producing a television show that will air regularly on HHTV and online. This newsmagazine show, “Under the Hat,” is weekly program where we spotlight multiple facets of the school in a way never before seen, with interviews, skits, review and how-to segments, artistic performances, and more. In the high-intensity class, students will use everything they have learned to create this professional-quality show.

Over the course of the semester, students will collaborate, create, and reflect, as they fulfill a variety of different and critical roles, as they meet various challenges and produce interesting and complex video segments, studio productions, man-on-the street interviews—which will come together as a 15-20 minute show—one that HH will be proud to call its own.
Health, Physical Education & Driver Education

The intent of the Physical Education program is to instill in the student an awareness of the importance of physical activities, the desire to pursue physical activity throughout his/her lifetime, and the skills necessary to do this effectively. The Health Education program aims to impart health knowledge which will enable the student to develop healthy personal habits and attitudes.

GRADES 9 - 11

PHYSICAL EDUCATION

0.5 Credit

80914 This course provides instruction in the fundamental development of health and skills related components of fitness through competitive and non-competitive physical activities. Physical Education is a course designed to follow through upon concepts and themes developed in prior Physical Education courses. The course allows students the opportunity to choose from a variety of activities they would like to participate in to help achieve overall fitness with an emphasis on lifetime activities.

HEALTH 10

0.5 Credit

81011 This course is designed to assist students in establishing attitudes and habits that emphasize the preservation and enrichment of healthy life styles.

HEALTH 12

0.25 Credit

81211 This is a required senior course used in conjunction with Senior Physical Education. This course analyzes various aspects of contemporary life affecting personal and family living. This course also includes adult, child and infant CPR training, AED use, safety and first aid training (each student will have the opportunity to become certified in these parts of the course).

PHYSICAL EDUCATION 12

0.25 Credit

81214 Physical Education 12 is a required senior course used in conjunction with Senior Health to culminate the students’ high school career. The concentration of this course is to help students understand the benefits of an active lifestyle. This is accomplished through exposure to a selection of lifetime and fitness activities.

Electives

PHYSICAL EDUCATION MAJOR

0.5 Credit

Grades 11 and 12

82003 This course offers the serious physical education student an opportunity to study physical education in depth, to develop a varied background in physical education, and to learn about officiating interscholastic sports. Those students selecting this course must have prior approval from the Physical Education Department.
INDIVIDUAL/TEAM SPORTS
Grades: 10<sup>th</sup> through 12<sup>th</sup>
Credit: 0.5 Credit
Prerequisite: None

82048 This course provides an opportunity for students to improve their health and fitness by developing an appreciation for teamwork and fair play. Students will develop skills related to leadership, responsibility, accountability, flexibility and adaptability. Students will learn to work collaboratively in diverse teams while gaining competency in individual and team sports such as Team Handball, Basketball, Speedball, Football, Volleyball, Badminton, Nitro-ball, and Pickle-ball. Students will learn how to organize player drafts and develop tournament schedules. This course focuses on incorporating physical activity into a lifestyle beyond high school and continuing health and fitness throughout life.

DRIVER EDUCATION
0.5 Credit
Grades 10 through 12 (*Permit not required to take this course*)

81014 Driver Education is designed to develop a positive and safe attitude in the overall development of the teenage driver. Class topics include, defensive driving, distracted driving, adverse weather, insurance and many more. In-class driver simulation will be provided to test students’ ability to handle everyday driving situations as well as more difficult scenarios like collision avoidance. Following the completion of 30 hours of classroom theory, documentation will be provided for a possible insurance discount.

TRAINING FOR ATHLETES
0.5 Credits
Grades 10 through 12

82047 This course has been developed for athletes; however, any student interested in participating in a high-level fitness program is welcome. The course will include an intense concentration of performance related fitness activities in effort to improve athletic performance. Classes will be teacher-driven, and will focus on improving speed, power, coordination, agility, balance and reaction time. This course will be customized for both the “in” and “out” of season athlete, and is open to all students.

INTRODUCTION TO MOUNTAINEERING & SURVIVAL
0.5 Credit
Grades 10 through 12

82044 Have you seen the show Survivorman? Now is your chance to experience it! This course is an introduction to the fundamentals of mountaineering, backcountry hiking and wilderness survival (basically all of the cool stuff you see on survival television shows). Do you want to get outside beyond the walls of HH during the day? We will be outside 50% of the time. You will have a chance to build shelters, create fire, design survival bracelets, practice outdoor digital photography, tie 20 different knots, climb rock walls, practice Wilderness First Aid and CPR and experience guest speakers that have climbed Mt. Everest. This class will prepare you for a lifetime of safe adventures in the outdoors. There is a $10 lab fee for supplies used in course.
Mathematics

The mathematics program is sequential in nature in that one subject builds upon the concepts learned in previous math courses. However, a variety of subjects and levels are offered so that students may select the proper course with the help of parents, teachers, and guidance counselors. Teachers and guidance counselors will recommend to the student and parent the level which they feel the student should pursue. We strongly urge students to follow that recommendation. Phasing is the classification of mathematics courses according to the difficulty and complexity of skills, materials, and requirements of the courses.

During the summer, there will be pre-course practice available on-line for those students who wish to prepare for their upcoming math course. Although this work is not required, it is recommended that student complete this work as a review to help prepare them for the sequential course for which they are scheduled.

### Math Course Pathways

<table>
<thead>
<tr>
<th>Grade</th>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required to take Math both semesters</td>
<td>1 Math required, students may opt to take 1 each semester</td>
<td>1 Math required, many students take 1 each semester</td>
<td>Math requirement dependent upon number of credits taken prior to senior year</td>
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<tr>
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<td>Prob/Stat</td>
<td>Geo</td>
<td>Alg II</td>
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<tr>
<td>College Prep</td>
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<td>Alg II</td>
<td>Trig</td>
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<tr>
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<td>Honors Prob/Stat</td>
<td>Honors Geo</td>
<td>Honors Alg II</td>
<td>Honors Trig</td>
</tr>
<tr>
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<td>Accel Alg II</td>
<td>Accel Trig/Pre-Calc</td>
<td>AP Calc A</td>
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</table>
ALGEBRA 1
(18 Weeks) 1.0 Credit
Prerequisite: Teacher recommendation

College Prep Level
30011 This course includes the study of writing, solving and graphing linear equations and inequalities, systems of equations and inequalities, functions, problem solving, radicals, exponents and expressions.

Academic Level
30012 This course consists of the core curriculum presented in College Prep Algebra. The pace and conceptual depth is aligned to the student’s mathematical foundation and skill level. Appropriate instructional strategies are implemented to facilitate understanding and sequential learning.

INTRODUCTION TO PROBABILITY, STATISTICS AND EXTENDED TOPICS
Honors Level
Prerequisite: Teacher recommendation
30021 This course covers topics such as basic probability, permutations and combinations, the binomial theorem, the normal distribution, measures of central tendency and dispersion, and survey vocabulary. Other topics will include an introduction to matrices, Cramer’s Rule and its use in solving two and three variable systems of equations, inequalities, combined inequalities, radical expressions and equations, linear equations including graphing, arithmetic and geometric sequences, functions including domain, range and inverse functions.

College Prep Level
Prerequisite: Teacher recommendation
30022 This course covers topics such as basic probability, permutations and combinations, the binomial theorem, the normal distribution and measures of central tendency and dispersion, and survey vocabulary. Other topics will include an introduction to matrices and continued work with inequalities, combined inequalities, radical expressions and equations, quadratic expressions and equations, linear equations, polynomials, factoring and rational expressions, arithmetic and geometric sequences, graphing and functions.

Academic Level
Prerequisite: Teacher recommendation
30024 This course consists of the core curriculum presented in College Prep Intro to Prob/Stat. The pace and conceptual depth is aligned to the student’s mathematical foundation and skill level. Appropriate instructional strategies are implemented to facilitate understanding and sequential learning.
ACCELERATED INTRODUCTION TO PROBABILITY, STATISTICS AND EXTENDED TOPICS
(18 Weeks) 1.0 Credit
Prerequisite: Teacher recommendation
30023 This course covers topics such as basic probability, permutations and combinations, the binomial theorem, arithmetic and geometric sequences, the normal distribution and measures of central tendency and dispersion and survey vocabulary. Other topics will include inequalities, combined inequalities, radical expressions and equations, linear equations, systems of linear equations in two and three variables, graphing linear and quadratic functions, algebra of functions – including domain, range and inverse functions - matrices and determinants, Cramer’s rule with applications, and rational and radical functions.

GEOMETRY
(18 Weeks) 1.0 Credit
Honors Level
Prerequisite: Teacher recommendation
30031 This course covers topics such as standard theorems, properties of triangles, deductive reasoning (with a concentration on the proof process), congruence, similarity, parallels, polygons, circles, areas, volumes, coordinate geometry, plane geometry, constructions and an introduction to right triangle trigonometry.

College Prep Level
Prerequisite: 70% or above in Algebra I CP
30032 This course covers topics such as standard theorems, properties of triangles, deductive reasoning, formal proof process, congruence, similarity, parallels, polygons, circles, areas, volumes, coordinate geometry, plane geometry constructions using geometer sketchpad and an introduction to trigonometric ratios.

Academic Level
Prerequisite: Teacher recommendation
30036 This course consists of the core curriculum presented in College Prep Geometry. The pace and conceptual depth is aligned to the student’s mathematical foundation and skill level. Appropriate instructional strategies are implemented to facilitate understanding and sequential learning.
ALGEBRA II
(18 Weeks) 1.0 Credit
Honors Level
Prerequisite: Honors Geometry and Honors Introduction to Probability, Statistics and Extended Topics

30041 This course includes the study of linear equations and inequalities in one and two variables, relations and functions with emphasis on linear functions and their applications, systems of equations, exponents, polynomials, factoring, solving and graphing quadratic equations and inequalities, rational expressions, rational equations and their applications, radicals, complex numbers, conic sections, rational exponents and logarithms.

College Prep Level
Prerequisite: CP Geometry and CP Introduction to Probability, Statistics and Extended Topics

30042 This course includes the study of number systems, sets, relations, functions (linear and polynomial), exponents, radicals and rational expressions, introduction to complex numbers and the conic sections. Problem solving will be emphasized throughout the course using equations and inequalities that are linear, rational or quadratic in nature. Single and multivariable algebra is utilized.

Academic Level
Prerequisite: Teacher recommendation

30046 This course consists of the core curriculum presented in College Prep Algebra II. The pace and conceptual depth is aligned to the student’s mathematical foundation and skill level. Appropriate instructional strategies are implemented to facilitate understanding and sequential learning.

ACCELERATED ALGEBRA II
(18 Weeks) 1.0 Credit
Prerequisite: Accelerated Introduction to Probability, Statistics and Extended Topics and teacher recommendation

30043ACC This course includes the study of quadratic equations, quadratic functions and their graphs, polynomial functions and their graphs, distance and mid-point formulas and their applications, elements of conic sections and their graphs, rational exponents, elements of exponential functions and their graphs, elements of logarithms, parametric equations and fractional decomposition. Course content also includes line and point symmetries of equations, odd and even functions, piece-wise and greatest integer functions and all transformations of functions. Problem solving is included throughout. The weighted grade point of Accelerated courses is the mean average of Honors and AP courses.

ADVANCED TOPICS
(18 Weeks) 1.0 Credit
Prerequisite: College Prep Algebra II or 75% in Academic Algebra II

30051 CP This course is the study of equations and functions from a numerical, graphical and analytical approach. Topics include a brief review of introductory algebra, introduction to functions, factoring, algebraic fractions, radicals, fractional exponents, the Pythagorean theorem, functional notation, graphing, quadratic equations, logarithms, systems of linear equations, and word problems applications.
TRIGONOMETRY
(18 Weeks) 1.0 Credit
Honors Level
Prerequisite: 80% or above in Honors Algebra II and teacher recommendation
30061 This course covers the trigonometric functions, radian measure, linear and angular velocity, graphs, identities, solutions of right and oblique triangles, and inverse trigonometric functions.

College Prep Level
Prerequisite: 70% or above in College Prep Algebra II with teacher recommendation or 70% in Advanced Topics.
30062 This course includes the study of the trigonometric functions, the fundamental identities, right and oblique triangles, radian measure with application and the graphs of the trigonometric functions and problem solving utilizing the trigonometric functions.

ACCELERATED TRIGONOMETRY AND PRE-CALCULUS
(18 Weeks) 1.0 Credit
Prerequisite: Accelerated Algebra II and teacher recommendation.
30063 ACC This course covers functions, inverse functions, transformations, the trigonometric functions, graphs of trigonometric functions, domain and range, identities, solutions of right and oblique triangles, radian measure, linear and angular velocity, inverse trigonometric functions, trigonometric equations, limits, and polar coordinates. The weighted grade point of Accelerated courses is the mean average of Honors and AP courses.

PRE-CALCULUS
(18 Weeks) 1.0 Credit
Honors Level
Prerequisite: Honors Trigonometry or “A” in CP Trigonometry and teacher recommendation.
30071 This course will include the study of linear and quadratic functions, an analysis and modeling of these functions, polynomial functions and the application of polynomial functions, rational functions and graphs, exponential and logarithmic functions, graphing with symmetries and transformations, and inequalities, parametric and polar equations and fractional decomposition. An introduction to limits through the graphs of rational functions and an introduction to calculus through limits and sequences and series will be included.

College Prep Level
Prerequisite: 80% or above in CP Trigonometry.
30074 This course, utilizing a graphical approach, will include linear, quadratic, polynomial, exponential and logarithmic functions. Analysis, modeling and application of the functions will be emphasized. An introduction to calculus through limits, sequence and series will be included in this course.

CALCULUS
(18 Weeks) 1.0 Credit
Prerequisite: Successfully completed Pre-Calculus
30070 CP This course includes a study of analytical geometry, functions, limits, continuity, differentiation, applications of derivatives and an introduction to integration with basic applications.
HONORS INTRODUCTION TO ENGINEERING
(18 Weeks) 1.0 Credit
Prerequisite: Honors Level Algebra II or an “A” in CP Algebra II
30093 H This course will help students understand the field of engineering and its concentrations through discussions with real world professionals. Students will learn how engineers use math, science, and technology in an engineering problem solving process to benefit people. Course materials will be presented using projects and group learning activities that will help students gain experience with design and development. **This course has the option to be Dual Enrollment, please ask your counselor for more details.**

HONORS ENGINEERING II
(18 Weeks) 1.0 Credit
Prerequisite: 30094 H In Engineering 2, students apply the engineering design process they learned in Introduction to Engineering and use industry-leading design technology to engage in the open-ended problem solving of semester long, discipline specific engineering problems. Students will team with working professionals outside of the classroom to gain valuable experience tapping into the expertise of real world professionals. Through problems that engage and challenge, students will have the option to explore and choose from several engineering topics that will help them prepare for their college curriculum as well as their future working experience. **This course has the option to be Dual Enrollment, please ask your counselor for more details.**

MULTI-VARIABLE CALCULUS
(18 weeks) 1.0 Credit (Accelerated Phase)
Prerequisite: AP Calculus BC
30080 H This course is a continuation of the study of Calculus into three dimensions. Topics covered include parametric equations, polar, cylindrical, and spherical coordinates, vectors, and the geometry of space, vector functions (derivatives, integrals, curvature), partial derivatives, optimization, multiple integration and its applications, and vector calculus (line integrals, vector analysis). These mathematical tools and methods are used extensively in the physical sciences, engineering, economics, and computer graphics. Classroom instruction and programs will be presented using Maple (a computer algebra system) and TI-CAS CX calculators, which will be provided for each student. **This course has the option to be Dual Enrollment, please ask your counselor for more details.**

ADVANCED PLACEMENT MATH
ADVANCED PLACEMENT CALCULUS A
(18 Weeks) 1.0 Credit
Prerequisite: Accelerated Trigonometry/Pre-Calculus or Honors Trigonometry AND Honors Pre-Calculus 30077 A course designed primarily for students who will major in mathematics, science, engineering, or business. Topics include concepts from analytic geometry, limits, differentiation of algebraic, trigonometric, exponential, and logarithmic functions, curve sketching and applications. A graphing calculator is required for class, homework, and testing. Classroom instruction and programs will be presented using a TI-84 Plus.
ADVANCED PLACEMENT CALCULUS AB  
(18 Weeks) 1.0 Credit  
Prerequisite: AP Calculus A  

30078 AP This course is a continuation of the Advanced Placement recommended list of eligible content for the Calculus AB exam. Integration of algebraic, trigonometric, exponential, and logarithmic functions, applications of integration, and slope fields will be covered. A graphing calculator is required for class, homework, and testing. Classroom instruction and programs will be presented using a TI-84 Plus. Students that register to take the Advanced Placement Calculus AB exam must select both courses (30077 and 30078).

ADVANCED PLACEMENT CALCULUS BC  
(18 Weeks) 1.0 Credits  
Prerequisite: AP Calculus A  

30079 AP This course is a continuation of the Advanced Placement recommended list of eligible content for the Calculus BC exam. Integration of algebraic, trigonometric, exponential, and logarithmic functions, applications of integration, and slope fields will be covered. Additional topics include differentiation and integration of parametric equations, polar functions and vectors. Slope fields, series and convergence, Euler’s method, L’Hopital’s Rule and improper integrals are also included in this version of the calculus. A graphing calculator is required for class, homework and testing. Classroom instruction and programs will be presented using a TI-84 Plus. Students that register to take the Advanced Placement Calculus BC exam must select both courses (30077 and 30079).

ADVANCED PLACEMENT STATISTICS  
(18 Weeks, plus Seminar) 1.50 Credits  
Prerequisite: Accelerated Algebra II, 87% or above in Honors Algebra II, or teacher recommendation.  

30076 AP This course is an introduction to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics include summarizing and comparing both univariate and bivariate data, planning and conducting surveys and experiments, probability, the normal distribution, sampling distributions, confidence intervals and tests of significance. Strong written and verbal communication skills will be vital to success in this course. 30076S Students taking AP Statistics are required to take an AP Statistics seminar course during semester 1.

MONTCO MATH – MAT 011 – Dual Enrollment Course  
(18 Weeks) 1.0 Credit (HHHS)  
Prerequisite: Enrollment at MCCC, MCCC Placement test, MCCC determined eligibility.  
A first course in algebra with some review of arithmetic. It introduces the beginning concepts of algebra and is appropriate for students with a weak background or no background in algebra. Topics include signed numbers, algebraic terminology, basic operations on algebraic expressions and exponents, solution of linear equations and inequalities, solutions of quadratic equations, simple factoring, graphs, algebraic fractions, and word problems. The TI-30X calculator is recommended for the course. Students are responsible to purchase the class workbook.
Music

The following course offerings give students a variety of opportunities for involvement in both the performing and non-performing aspects of music. Choral and instrumental groups, as well as classroom harmony and theory classes, are available. Music courses are not phased and are not included in class rank or grade point average.

BAND
(Full Year every other day) 1.0 Credit
77121
This course is available to students who have had previous instruction on a band instrument. Opportunities for small ensemble and solo work may be available. Membership is a prerequisite for participation in other small ensembles, District, Regional, All-State and National Music Festivals. Band Lab during HATS once a week is required.

BAND/CONCERT CHOIR
(Full Year every other day) 1.0 Credit
77321
This is for those students who desire to participate in both band and concert choir.

CONCERT CHOIR
(Full Year every other day) 1.0 Credit
77421
This course is open to all interested students who want to develop vocal competence while performing choral literature of the highest caliber. Students are required to attend all rehearsals and performances of the ensemble. Membership is a prerequisite for participation in other small ensembles, District, Regional, All-State and National Music Festivals. Choir Lab during HATS once a week is required.

MADRIGALS
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: By permission of the instructor, By audition only
77722
This is an additional course for qualified students through auditions the previous year. All music will be performed a cappella. The class is only offered the 1st semester.

CHAMBER SINGERS
(18 Weeks every other day) 0.5 Credit
Grades 10 through 12
Prerequisite: By permission of the instructor and membership in Concert Choir.
77635
This course is open to all voice parts as a continuation of Madrigals from the first semester. This larger, more advance choir focuses on a capella music of all genres. This class is only offered the 2nd semester.
MUSIC APPRECIATION – American Popular Music  
(18 Weeks every other day) 0.5 Credit  
Grade 9 through 12  
77638 This course is designed for students who have a love and interest in music, but do not wish to participate in a performing ensemble. Students will explore American popular music and musical theater in addition to the history of Western music. Through extensive listening activities, projects and class discussions, students will gain a deeper knowledge of the progression of popular music.

VOCAL ARTS SEMINAR  
(18 Weeks every other day) 0.5 Credit  
Grade 9 through 12  
Prerequisite: Participation in Concert Choir or another choral ensemble is highly recommended  
77639 This course is designed for students who are interested in developing and strengthening vocal technique and sight-singing skills at a more advanced level. Students will study vocal literature from every genre including musical theatre and pop. In addition, students will explore performance practice for the voice and have the opportunity to perform in class.

MUSIC MAJOR  
(18 Weeks 1st Semester only) 1.0 Credit  
Grade 10 through 12  
Prerequisite: By permission of the instructor.  
77561 Music Major is designed for the highly motivated music student who wishes to develop greater skills on their specific instrument or voice and also learn music theory, history and improve their reading and writing skills. Students will be required to perform notated repertoire from accepted repertoire for their instrument and/or voice.

STRING ENSEMBLE  
(18 Weeks every other day) 0.5 Credit  
9th & 10th - 77135 | 11th & 12th - 77136  
Strings Ensemble is a performing arts course for students who play the violin, viola, cello or bass. Students work individually and as a group to rehearse and perform orchestral music. Pieces from various genres such as Baroque, Classical and popular music are studied. Musical elements such as rhythm, melody and harmony are examined. There are two levels of orchestra: beginner and experienced, so all interested students are welcome. Strings Ensemble members must provide their own instruments and rentals are available through local businesses. Strings Ensemble Lab during HATS once a week is required.

PIANO LAB  
(18 Weeks every other day) 0.5 Credit  
Grade 9 through 12  
77523 This course is designed for the student with little or no knowledge of the piano. Chords, proper fingerings, melody and the theory necessary to build reading skills will be taught.
ROCK ENSEMBLE
(18 Weeks every other day) 0.5 Credit
77629 Rock Ensemble is a class for the student who is either in a rock band or wants to be in a rock band and wants to know the way to develop musical talents and abilities to be successful. Students who are proficient performers on guitar, electric bass, piano, drum set, or vocals who are interested in exploring and performing Rock and/or Pop music should consider this course. Please note that this is not a course for beginners. Please check out Piano lab and Guitar I to learn how to play.

GUITAR I
(18 Weeks every other day) 0.5 Credit
Grade 9 through 12
77516 This course is designed to teach the beginning student who has little or no knowledge of the guitar and wishes to gain the skills necessary to play the guitar. Scales, chord progressions and the theory necessary to play the instrument will be studied. Guitars for use during class are supplied by instructor.
Science

GOAL
In today’s society it is of utmost importance that we prepare students to be scientifically literate. Only then will we our students be prepared to be responsible citizens able to make intelligent decisions. As a department, we strive to have students understand what science is, to recognize its spirit, and to appreciate its methods. Therefore, a variety of courses is offered so that students may choose classes based upon their interests and future educational plans.

REQUIREMENTS
4.0 or 3.5 science credits are required for graduation dependent upon the program. Physical Science, Environmental Science and Biology are required courses for all College Prep and Academic level students. Biology and Chemistry are required for all Honors level students. Students then select additional science classes to fulfill the requirement. Students planning to attend a four-year college should take chemistry and physics. Students intending on majoring in science should take as many science courses as possible.

COURSE SEQUENCE

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<thead>
<tr>
<th>Year</th>
<th>Biology</th>
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<td>9</td>
<td>H</td>
<td>CP</td>
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<tr>
<td>10</td>
<td>AP Environmental Science, Chemistry I – H, AP Biology</td>
<td>Environmental Science - CP, Biology – CP</td>
<td>Environmental Science - A, Biology – A</td>
</tr>
</tbody>
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ENVIRONMENTAL SCIENCE
(18 weeks) 1.0 Credit
Grade 9
40202 CP | 40203 A
Students in environmental science will learn about spheres of the Earth (air, land, water and organisms), renewable/nonrenewable resources, wetlands and watersheds, biodiversity, ecosystems and environmental law. Although the course will explore world-wide environmental issues, it will emphasize those specific to Pennsylvania as specified by the Pennsylvania Environmental Science Standards. Current tools and techniques (including examination of qualitative and quantitative data) used to assess the health of the environment will be explored. Environmental decision-making skills pertaining to each topic of study will be emphasized as students consider the risks and future consequences of human actions. Students will research and present environmental concerns and solutions on both group and individual levels. Laboratory and field experiments, presentations, current events, and group work are used to facilitate student learning.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE
18 weeks, plus Seminar 1.5 Credits
Grades 10 - 12
40106 AP & 40106S
Prerequisite: Successful completion of Biology.
The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.
STUDENTS MUST REGISTER FOR BOTH COURSES.

PHYSICAL SCIENCE
(18 weeks) 1.0 Credit
Grade 9
40902 CP | 40903 A
Students in physical science will learn about measurement, the physical properties of matter, energy, electricity, forces and motion and basic chemistry concepts. The scientific method will be emphasized as students hypothesize, design and carry out experiments, and collect data and manipulate data in order to reach a conclusion. Students will practice independent analytical skills and problem solving. Collaboration and communication skills as well as higher level thinking skills will be enhanced through the use of technology.
BIOLOGY
(18 weeks) 1.0 Credit
Grade 9 41001 H
Grade 10 41002 CP | 41003 A
Students in biology will learn about microscopy, cell types, structures and functions, molecular genetics, heredity, biotechnology, evolution and classification of life forms. Scientific literacy is developed through investigative labs, reading and writing assignments, use of online resources, collaborative group work and class discussion. Students will formulate testable questions, develop hypotheses, conduct research and experiments, and finally gather and analyze data to form conclusions within each topic of study. Real-world connections are prevalent and technology is integrated as teachers use online interactive animations, supportive websites and video clips. Students use technology as they engage in Internet workshops and WebQuests, use the Internet for research and use various multimedia and web-based programs to design creative products to demonstrate their learning.

ADVANCED PLACEMENT BIOLOGY
18 weeks plus Seminar 1.5 Credits
Grades 11 and 12
42051 AP & 42051 S
This course is a college-level study of biological principles which combines lecture and laboratory work. Topics will include biochemistry, cellular biology, molecular genetics, heredity, evolution, and taxonomy, surveys of the plant and animal kingdoms and population ecology. STUDENTS TAKING A.P. BIOLOGY (SEMESTER 1) ARE REQUIRED TO TAKE AN A.P. BIOLOGY SEMINAR COURSE NUMBER 42051S DURING SEMESTER 2. STUDENTS MUST REGISTER FOR BOTH COURSES.

CHEMISTRY I
(18 weeks) 1.0 Credit
Grades 10 through 12
41101 H | 41102 CP | 44125 A
Prerequisite: Successful completion of Biology, Algebra 1 and Intro to Probability and Statistics. Chemistry is all around us. Chemists create artificial sweeteners and food tastes. They are ballistics experts and art conservators and they create medicines and perfumes. They work as dietitians and environmental scientists. Students in chemistry will learn about basic chemical ideas at the heart of this field including matter and change, atomic theory, electron configurations, periodic law, covalent and ionic bonding, chemical equations and formulas, stoichiometry, acids and bases and gas laws. Laboratory-oriented classes incorporate the safe handling of chemicals and equipment. Emphasis is on the basic fundamentals of chemistry, experimentation, and safety.

CHEMISTRY II
(18 weeks) 1.0 Credit
Grades 11 and 12
41121 H
Pre-requisite: Successful completion of Chemistry.
This course is designed for students who plan to study science in college but are NOT on track for AP Chemistry. The content will continue from Chemistry I and will include: States of matter, Solutions, Colligative Properties, Acids & Bases, Reaction Kinetics, Equilibrium, Oxidation-Reductions Reactions, and Nuclear Chemistry. This Honors level course is fast-paced and requires strong algebra skills.
ADVANCED PLACEMENT CHEMISTRY
18 weeks, plus Seminar 1.5 Credits
Grades 11 and 12
42061 AP & 42061S
Prerequisite: Successful completion of Chemistry.
This course is a college level study of chemical principles combining lecture and laboratory work. Topics will include chemical kinetics, equilibrium, electrochemistry, including the Nernst equation, basic thermodynamics, current theories of bonding, solution chemistry, reaction rates, simple qualitative analysis, and introductory organic chemistry, including basic groups and synthesis of aspirin, nylon, and esters. STUDENTS TAKING A.P. CHEMISTRY (SEMESTER 1) ARE REQUIRED TO TAKE AN A.P. CHEMISTRY SEMINAR COURSE NUMBER 42061S DURING SEMESTER 2. STUDENTS MUST REGISTER FOR BOTH COURSES.

ADVANCED PLACEMENT PHYSICS - MECHANICS
18 weeks plus Seminar 1.5 Credits
Grades 11 and 12
42071 AP & 42071S
Prerequisites: Students concurrently enrolled in an AP Calculus course, or have completed an AP Calculus course.
Efforts will be made to place students who took honors physics will be in a separate class from those with no physics experience.
This course is a college level study of the physical principles of nature, which combines lecture with laboratory work. Topics in mechanics include: vectors, Newton’s laws of motion, work and energy, linear momentum, and collisions, rotational kinematics and dynamics, equilibrium, oscillations and gravitation. STUDENTS TAKING A.P. PHYSICS (SEMESTER 1) ARE REQUIRED TO TAKE AN A.P. PHYSICS SEMINAR COURSE NUMBER 42071S DURING SEMESTER 2. STUDENTS MUST REGISTER FOR BOTH COURSES.

ADVANCED PLACEMENT PHYSICS – Electricity and Magnetism
18 weeks plus Seminar 1.5 Credits
Grades 12
42072 AP & 42072S
Prerequisites: Completed AP Mechanics and AP Calculus BC.
This course is a calculus-based, college-level physics course, appropriate for students planning to specialize or major in physical science or engineering. Topics in electricity and magnetism include: Coulomb’s law and electric field, Gauss’ law of electrostatics and potential, capacitors and dielectrics, circuits, magnetic field, Ampere’s law, Biot-Savart law, Faraday’s law of induction and inductance and inductance-capacitance circuits. STUDENTS TAKING A.P. PHYSICS (SEMESTER 1) ARE REQUIRED TO TAKE AN A.P. PHYSICS SEMINAR COURSE NUMBER 42071S DURING SEMESTER 2. STUDENTS MUST REGISTER FOR BOTH COURSES.
PHYSICS
(18 weeks) 1.0 Credit
Grades 11 and 12
41201 H | 41202 CP
Prerequisites: Successful completion of Algebra II or taking it concurrently with this course.

Physics is the science that tries to understand the laws of nature and the relationship between energy and matter. The applications of physics range from development of technologies such as lasers, semiconductors, digital cameras, and microwaves. Physicists have designed nuclear diagnostic techniques which provide ways to “see” inside the body without surgery. They developed archeological dating techniques, build highways and bridges, study earthquakes and explore the conditions needed for effective communication, weather and military satellites. Astrophysicists study the universe and computer science physicists may explore artificial intelligence. Physicists study the properties of light making fiber-optic cable and high speed Internet possible. They are used in the aerospace, agriculture, energy, textiles and transportation industries.

Students studying physics will learn about the principles of nature in the area of mechanics including motion, forces, astrophysics, energy, collisions, waves, and secondly, electricity and magnetism including charges and simple and complex circuits. Additional topics in the honors section include electric fields, voltages, heat, optics, and magnets.

This course will provide students with opportunities to develop critical thinking skills. The focus of the course is to apply critical thinking skills that enable students to understand and solve various Physics problems using mathematical models, laboratory experiments, and computer simulations.
LIFE SCIENCE COURSES

KINESIOLOGY
(18 weeks) 1.0 Credit
Grades 11 and 12

42011 Honors This intensive course is geared towards students who enjoy and excel studying the life sciences and intend to focus on undergraduate medical sciences such as pre-med or nursing. Honors Kinesiology offers an in-depth examination of body systems and dissections of the rat and fetal pig both with strong correlations to human anatomy and physiology. Students will further delve into the art of medicine through comprehensive case studies and patient scenarios such as multiple systems trauma, cardiac arrest, etc. Case studies will enable students to delve deeply into affected organ systems by learning both the anatomy and physiology of each affected organ and make cross-connections with other organ systems. Students will begin to learn to assess patients, obtain vital signs, and develop differential diagnoses and treatment plans.

42021 College Prep This course is geared towards students who wish to investigate the inner workings of the human body, intend to major in health sciences after graduation, or are simply curious and wish to explore a fun, activity-filled life science. We start the course with an introduction to anatomy and physiology and then delve into the skeletal, muscular and nervous systems, all of which we tie-into athletics and sports related injuries. Students learn through extensive dissection of the rat and fetal pig, as well as through several hands-on projects.

FORENSICS
18 weeks every other day 0.5 Credits
Grades 11 and 12

42082 This course will provide students with an opportunity to play the role of a forensic scientist who will investigate various crime scenes. Students will apply basic chemistry principles used in fingerprinting, DNA analysis, crime scene management, and other investigative procedures. Students will research case studies of actual crimes and participate in discussions on the physical and scientific parameters involved in these incidents. In addition, students will work in the fields of cheiloscopy, hair analysis, handwriting analysis, ink chromatography, forensic pathology, fiber analysis, autopsy procedures, forensic odontology, forensic chemistry and many of the other associated fields of forensic science. Local and state forensic lab representatives and those involved with law enforcement will visit and lecture on actual crime scene investigation.

DISASTERS
18 weeks every other day
0.5 Credits
Grades 11 and 12

42083 In this course, earth science, biology, chemistry and physics will be used to explain natural disasters. Students will examine environmental hazards resulting from natural geologic processes and from human modification of natural systems. Topics may include earthquakes, volcanic eruptions, tsunamis, limnic eruptions, extreme weather (heat waves, hail, storms, and tornadoes), cyclones, hurricanes, typhoons, floods and landslides, wildfires, blizzards, contractible diseases, famine, ice ages and asteroid collisions.
GENETICS & BIOTECHNOLOGY
(18 weeks) 1.0 Credit
Grades 11 and 12
42086 H | CP 42084
Prerequisite: Successful completion of Biology
Genetics and biotechnology have a direct application to your daily lives—from the food you eat to the discovery of treatments for diseases. It is in a constant state of change and advancement. In this hands-on course, we will cover principles of prokaryotic and eukaryotic cell genetics, patterns of Mendelian and non-Mendelian inheritance with an emphasis on biotechnological applications. In addition, students will keep a proper laboratory notebook and get laboratory experiences with biotechnology techniques such as: pipetting skills, cell transformation, plasmid DNA preparation, electrophoresis, PCR and chromatography.

MARINE BIOLOGY
18 weeks every other day
1.5 Credits
Grades 11 and 12
42085 This course will introduce students to the physical and biological aspects of the ocean. The physical ocean will be studied including ocean history, ocean chemistry, temperature, currents and tides, marine zones, estuaries, salt marshes and mangroves, continental shelves, coral reefs, the arctic and Antarctic, and the deep sea. Students will also learn about marine life-forms and study their classification. Included topics are zooplankton, marine invertebrates and vertebrates, adaptations to marine living, grazers and predators, marine life cycles, symbionts, parasites, hosts and cooperation, marine ecology, biotic structure and ecological regulation. In addition, marine conservation biology will be presented focusing on biodiversity, global warming, threatened and endangered species, habitat conservation, alien species and ocean resources.
Social Studies

The Social Studies department operates with the goal that every student develops an understanding of the United States and gains an appreciation for our relationships to global problems and prospects worldwide. Students should be well versed in U.S. History, World history, and Civics in order to gain a working knowledge of government, economics, human behavior, current events, and global cultures. In all content areas, students will engage in 21st century skills such as: civic literacy, critical thinking, problem solving, collaboration and communication skills, global awareness, and research literacy. The promotion of high level thinking skills will help prepare our students to navigate the increasing complexities of this world.

Three Social Studies credits are required for graduation. Our current required sequence begins with 9th grade U.S. History, continues to 10th grade World History, and concludes with a capstone experience in the 11th grade Civics & Government course. Pursuing Social Studies AP offerings also helps students qualify for a distinguished H-H diploma in the Scholars Graduate Program. By taking electives, mainly in 11th and 12th grade, students can opt to continue to enhance their education to prepare for vocational schools, colleges, military services, universities, and the workforce. We believe that our Social Studies course offerings fundamentally strengthen our students' ability to perform well in other content areas as we focus strongly on critical thinking, prioritizing, and literacy skills.

All students will schedule in their 9th grade year U.S. History to begin their sequence at the High School to complete 3 mandatory graduation credits in Social Studies.

Students will progress to take World History in grade 10. Advanced Placement World History may be taken in its place for students who qualify to demonstrate outstanding commitment and performance in their 9th grade class.

The transition into upper-class courses moves students to take Civics, also a graduation requirement. With preparation, students can work with their guidance counselors to schedule Civics in their 12th grade. The Advanced Placement US Government and Politics course is the equivalency for Civics if students qualify. Also, all eleventh grade students may take electives in addition to the required Civics course to further explore the Social Studies program.

In their senior year, students may select from extensive elective offerings which delves into various social sciences such as Geopolitical Studies, History in Sports, African-American Studies, Psychology, and Sociology.
UNITED STATES HISTORY
(18 Weeks) 1.0 Credit
Grade 9
21012 H, 21002 CP, 21003 A - The period from 1898 to the present is the focus of this U.S. History course. This course builds on the foundation of the coursework from 7th & 8th grade. Students are expected to arrive in class with a basic working knowledge of the development of our nation from Colonialization through the Civil War and into the Gilded Age. From there the 10th grade curriculum concentration will be on the political, economic and social developments of the 20th and 21st centuries. As the involvement of USA’s policies around the globe expand, some topics of World History will also be introduced and examined to put contemporary US History in context.

WORLD HISTORY
(18 Weeks) 1.0 Credit
Grade 10
25101 H, 25102 CP, 25103 A - World History is a required survey course that explores key events and global historical developments since 1450 C.E. Students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and connect the past to the modern world. Students will refine their ability to read for comprehension and critical analysis; summarize, categorize, compare, and evaluate information; write clearly and convincingly; express facts and opinions orally; and use technology for communication, collaboration and critical thinking.

CIVICS
(18 Weeks) 1.0 Credit
Grade 11
26111 H, 26112 CP, 26113 A - Students will analyze the principles and practices of American Government through the lens of citizenship. This course will maintain that for a democracy to survive, its citizens must balance their own pursuits of happiness with the obligations and responsibilities of supporting a larger community. This course will help illustrate the mechanisms of local, state, and national government. From foreign policy to filibuster, students will evaluate the challenges and traditions of the American Government. Students will examine how citizens may participate in public affairs and construct an appreciation for constitutional history and law. Utilizing diverse academic skills including: research, reading, discussion, simulation, journalism, collaboration, and debate, students will develop their own authentic voices that speak the language of America. This course is designed to help students become responsible and well informed voters that continue to provide leadership and success for the United States of America.

HISTORY FOR STUDENTS OF ENGLISH AS A SECOND LANGUAGE
(18 Weeks) 1.0 Credit
9th - 23001 | 10th - 23002 | 11th - 23003 | 12th - 23004
This course is offered for those students whose first language is not English. The course covers basic U.S. history from Exploration to the Civil War. Important events, people, places and dates are stressed. Administration approval is required.
GEOPOLITICAL STUDIES
(18 week) 1.0 Credit
Grades 11 and 12
22087 H, 22088 CP - This course can also be called “How to become an effective critical thinker in today’s world.” Understanding political agendas & the art/science of persuasion are major focuses of this contemporary topics course. An examination of U.S. foreign policy, as well as an analysis of the changing role of the United States in foreign affairs emphasize the scope of study. Global events which influence the decisions of the USA underpin the course as well. Additional units of study include issues of terrorism, human rights, current events, and world leadership decisions. Critical and reliable research about various regional conflicts will also be a part of this valuable current topics course.

PSYCHOLOGY
(18 Weeks) 1.0 Credit
Grades 11 and 12
22031 H, 22032 CP - The survey course will examine the Behavioral Sciences through in-class experiments, demonstrations, lecture/discussion, tapes and readings on these topics: introduction to psychology, sensory and nervous systems, cognitive processing and memory, personality theory, learning theory, intelligence, mental illness and the treatment of mental illness. An expectation of critical reading, rigorous research, and student engagement is a necessity for succeeding in this course. Independent study skills and meaningful literacy skills are a must for learning the most from this offering.

ECONOMICS & GOVERNMENT
(18 Weeks) 1.0 Credit
Grades 11 and 12
22033 H, 22034 CP - This course will examine the principles of economics as they pertain to the United States and the World. In general, macroeconomic concepts will be discussed along with personal finance and a stock market simulation. The Constitution, Bill of Rights and the American political system will be at the core of this segment of the course. In addition, state and local government will be addressed as the students view our current society and the issues that confront all American citizens. Supreme Court cases will also be analyzed to better understand the unfolding interpretations and practice of law in our daily lives. An interest in Civic Values and active participation helps students succeed in this course.

SOCIOLOGY
(18 Weeks) 1.0 Credit
Grades 11 and 12
22025 H, 22035 CP - The sociology course provides a survey of sociology concepts through the use of in-class experiments and demonstrations, lecture and discussion, videos and readings. The course covers theoretical perspectives of sociology, the components of culture (including norms, values, beliefs, language, and material culture), cultural relativity, socialization, social deviance, and race, class and gender stratification.
HISTORY OF SPORTS IN AMERICA
(18 Weeks) 0.5 Credit
Grades 10 through 12
22092 Sports in America have reflected the changes and growth of this country over the past 400 years. The American sporting landscape has grown from the infancy of baseball and football, in early America, to a more diverse and an economically advantageous sport dominated society. Along the way many figures, places, and events have helped shape and contribute to this phenomenon. Throughout the course students will study the historical and cultural significance as well as the social and economic parallels between the sports we participate in and American societal climate.

History in Your Lifetime
(18 Weeks) 0.5 Credit
Grades 10-12
21111 In this modern History elective, you will explore important events, study influential people, and examine the US and World’s details during your lifetime. What history have I lived through? What chain has these events led to now? In what ways can I connect my present life with the time of my birth? By exploring the dynamic events of your lifetime and the years leading up to it, you will better understand the world you currently live in.
ADVANCED PLACEMENT SOCIAL STUDIES ELECTIVES

Prerequisite for all AP: Successful completion of prior year course. Any student may gain the recommendation of a Social Studies teacher to move phase.

Summer readings and assignments are required. Students will meet with their future AP teacher in May/June before school ends. A seminar is a requirement to take the full credit course. All Social Studies AP selections are 1.50 Credits schedule across both semesters.

ADVANCED PLACEMENT AMERICAN HISTORY
(18 Weeks, plus Seminar) 1.50 Credits

This course is recommended for 11th Grade or 12th Grade.

22051 This is a college level course in U.S. History. Extensive reading, research and individual study are requirements. This course examines in great depth the scope of US History beginning at Pre-Columbian/Spanish Exploration through to Contemporary history. Major themes and patterns are studied to better understand the current state of our nation today as political, economic, military, social, and legal events are examined. Important famous and infamous people are profiled in order to see the rich diversity of USA's leadership in its darkest and brightest times of our nation's existence.

22051S Students taking AP American history are required to take an AP American history seminar course number 22051S. Students must select both courses on their course selection worksheet.

ADVANCED PLACEMENT EUROPEAN HISTORY
(18 Weeks, plus Seminar) 1.50 Credits

This course is recommended for 11th Grade or 12th Grade.

22061 AP European History focuses on developing students’ ability to think conceptually about European history from 1450 to the present and apply historical thinking skills as they learn the required course content. Five themes of equal importance – Interaction of Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and Other Institutions of Power, and Individual and Society – provide areas of historical inquiry for investigation throughout the course. Significant time outside of class will be spent reading college level texts, including novels, to prepare for in class discussion, activities, and projects. The conceptual and interpretive nature of history will be focused on through the analysis of historical evidence and the crafting of persuasive historical arguments.

22061S Students taking AP European history are required to take an AP European history seminar course number 22061S. Students must select both courses on their course selection worksheet.
ADVANCED PLACEMENT PSYCHOLOGY
(18 Weeks, plus Seminar) 1.50 Credits
This course is recommended for 11th Grade or 12th Grade.
22071 This is a college level course in psychology. The course will cover these areas: the origin of psychology, understanding research and development, the biology of behavior, sensation, perception, the psychology of consciousness, learning theory, remembering and forgetting, thinking and language, motivation and emotion, personality theory, abnormal psychology, therapy and social psychology. These topics are examined through classic experiments, inquiry based lecture, demonstrative films, small group projects and psychological research. Superior reading and writing skills are necessary to gain the most from this course. Student engagement and participation are musts to move learning forward in meaningful ways.
22071S Students must select both courses on their course selection worksheet.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS
(18 Weeks, plus seminar) 1.50 Credits
This course is recommended for 11th Grade or 12th Grade.
22016 This class will focus on the political journey of the United States, particularly the organization and structure of government, the intricacies of the Constitution and its subsequent Amendments, and the role of the “common citizen” as seen with and without special interest groups. This course is about the structure or workings of US Gov’t. It will be taught at a college level and thus will demand much of your time and effort through independent study. This course provides instruction in each of the following six topics: Constitutional Underpinnings of the United States Government; Political Beliefs and Behaviors; Political Parties, Interest Groups, and the Mass Media; Institutions of National Government; Public Policy; and Civil Rights and Liberties.
22016S Students must select both courses on their course selection worksheet.

ADVANCED PLACEMENT WORLD HISTORY
(18 Weeks, plus seminar) 1.50 Credits
This course is recommended for 10th Grade students who are entering the AP Program as rigorous alternative to Honors World History.
25104 AP World History is a college level world history course that spans 8000 BC through modern times, covering all regions of the world. The course addresses world history through the lens of four historical thinking skills, five course themes, and six chronological periods. Essential historical content is studied by focusing on these items and using historically relevant events to illustrate these concepts and to practice the mastery of important historical skills. AP World History is a rigorous course that will require students to not just memorize historical events but develop a true understanding of history and of the world around them through making connections and analyzing historical data. It differs substantially in content and approach from other comprehensive and Honors World History courses offered at the school.
25104S Students must select both courses on their course selection worksheet.
### COURSE SEQUENCE
#### REQUIRED AND SUGGESTED COURSES 2016-15

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- If a schedule allows, the Social Studies dept. encourages motivated and skilled students to enroll in rigorous and challenging elective courses during their upper class years.

- Advanced Placement course offerings in Social Studies begin in 10th grade. Elective courses in Advanced Placement include Psychology, US Government and Politics, European History, World History and American History. These classes are designed to reflect introductory coursework and college level expectations. These rigorous programs help prepare students for the transition to higher learning institutions.

- All Social Studies elective courses offer opportunities for students to pursue studies of interest and focus as they make decisions about their post-secondary educations.
World Languages

Students planning to attend college are strongly advised to schedule a minimum of two credits of one world language and are encouraged to take more. Students applying to more competitive universities should complete four credits of a world language in order to satisfy more demanding entrance requirements. The study of world languages increases employment opportunities, helps in the understanding of foreign cultures, enhances English skills, and provides a new perspective on our own culture. A strong emphasis is placed on reading, writing, speaking and understanding the world language.

The World Language Department offers three languages: French, German and Spanish. Students may begin the study of French, German, and Spanish in the ninth grade. Achieving proficiency in speaking, listening, reading, writing, and culture is the goal of the World Language Department. These courses are not designed for students who are native speakers.

**FRENCH I**
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in 8th grade Language Cultures and English. 8th Graders recommended for the Academic Phase of English I should put off this course until 10th Grade.
60101 This course stresses the four skills of comprehension, speech, reading and writing through the study of vocabulary, verbs, grammar and speaking drills. A variety of audio-lingual reinforcement activities are practiced. The French culture is introduced through the French speaking countries around the world.

**FRENCH II**
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in French I
60102 This course expands upon the vocabulary learned in French I and adds new vocabulary topics. New grammar concepts are presented and grammar concepts learned in French I are refined. Attention is given to reading, writing, listening, and speaking. Culture is also presented. Students continue to explore the French culture through French readings.

**FRENCH III**
(18 Weeks) 1.0 Credit
Prerequisite: 75% or above in French II
60103 H This course builds on the grammar, conversation, pronunciation, and translation skills from Levels I and II. Intermediate reading, grammar, composition, conversation and culture are presented in this course. Reinforcement of new material includes activities. Students will read cultural sections and short stories in French.

**FRENCH IV**
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in French III
60104 H This course provides advanced work in reading, conversation, writing and culture. Some of the fine points of grammar are stressed. This course includes readings in French Literature.
GERMAN I
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in 8th grade Language Cultures and English. 8th Graders recommended for the Academic Phase of English I should put off this course until 10th Grade.

60201 This course stresses the four skills of comprehension, speech, reading and writing through the study of vocabulary, verbs, grammar and oral drills. A variety of audio-lingual reinforcement activities are practiced. The German culture is introduced through the German speaking countries around the world.

GERMAN II
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in German I

60202 This course expands upon the vocabulary learned in German I and adds new vocabulary topics. New grammar concepts are presented and grammar concepts learned in German I are refined. Attention is given to reading, writing, listening, and speaking. Culture is also presented.

GERMAN III
(18 Weeks) 1.0 Credit
Prerequisite: 75% or above in German II or recommendation of the teacher.

60203 H This course builds on the grammar, conversation, pronunciation, and translation skills from Levels I and II. Intermediate reading, grammar, composition, conversation and culture are presented in this course. Students will read cultural sections and short stories in German.

GERMAN IV
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in German III

60204 H This course provides more advanced work in reading, conversation, writing and culture. This course includes readings in German literature and it reviews and studies grammatical principles, conversational idioms and composition from oral and written reports in German. It also provides a survey of German culture.
SPANISH I
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in 8th grade Language Cultures and English. 8th Graders recommended for the Academic Phase of English I should put off this course until 10th Grade
60301 Spanish I is an introductory comprehensive language course. Students will develop speaking, listening, reading and writing skills on an elementary level. A variety of audio-lingual reinforcement activities are practiced. The Spanish culture is introduced through the Spanish speaking countries around the world.

SPANISH II
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in Spanish I
60302 This course expands upon the vocabulary learned in Spanish I and adds new vocabulary topics. New grammar concepts are presented and grammar concepts learned in Spanish I are refined. Attention is given to reading, writing, listening, and speaking. Culture is also presented.

SPANISH III
(18 Weeks) 1.0 Credit
Prerequisite: 75% or above in Spanish II
60303 H This course builds on the grammar, conversation, pronunciation, and translation skills from Levels I and II. Intermediate reading, grammar, composition, conversation and culture are covered in this course. Students will read cultural sections and short readings in Spanish.

SPANISH IV
(18 Weeks) 1.0 Credit
Prerequisite: 73% or above in Spanish III
60304 H This course includes advanced literature, grammar review, composition, conversation, and culture are studied. The course includes lessons in geography, history, customs, art, music, and life-styles through readings in Spanish literature.

ADVANCED PLACEMENT SPANISH
(18 Weeks, plus Seminar) 1.50 Credits
Grades 11 and 12
Prerequisite: 93% or above in Spanish IV and recommendation of the teacher.
60306 AP Advanced Placement Spanish is a college level course for 11th and 12th graders. Extensive reading, writing, and individual study are required.
60306S STUDENTS TAKING A.P. SPANISH ARE REQUIRED TO TAKE AN A.P. SPANISH SEMINAR COURSE NUMBER 60306S.
Community-Based Learning

Community-based learning opportunities help students carry out authentic work in professional settings related to their interests.
Graduating from high school having developed a postsecondary plan that is grounded in at least tentative career choices and has a high probability of success is more important now than it has ever been. Community-based learning electives help students develop future plans and investigate their ideas for their future.

Simply getting a college degree, regardless of major, will not be all that helpful for those entering the twenty-first century workplace. The specific field of study matters a great deal—far more than simply getting a diploma. Students should focus their energies acquiring the specific skills and kinds of knowledge demanded by occupations that are both growing rapidly and paying well.

–Workforce 2020 (Judy & D’Amico)

SENIOR INTERNSHIP I

(18 weeks 1.0 Credit)

90055 Senior Internship is a career exploratory learning opportunity for students who wish to verify career choice. It is an excellent way to determine if a career pathway is the best option to pursue before beginning post-secondary education. Senior interns are active participants in the internship acquisition process. They are mentored by a teacher throughout the semester and by a community-mentor at the internship site. All student interns meet bi-weekly to share experiences and to participate in topical discussions relevant to the internship experience. Each intern will maintain a reflection journal, complete a culminating project and help plan and attend a community-mentor recognition event.

*This course cannot be dropped.
*Students who can provide their own transportation to and from their internship will have the ability to explore a wider range of internship opportunities.

*To participate in the Senior Internship experience students MUST MEET THE FOLLOWING CRITERIA:

1. Strong attendance record during junior year;
2. Exemplary behavior record; and
3. Recommendations from the school counselor;
4. Attend a spring semester meeting and complete paperwork acknowledging no drop policy

SENIOR INTERNSHIP II

(18 weeks 1.0 Credit)

Prerequisite: 85% or above in Senior Internship I

90056 Seniors wishing to intern all school year may also elect Senior Internship II. This allows the student to (1) stay in the same internship all school year or (2) try a second internship in the second semester. To choose this option, register for both Senior Internship I and Senior Internship II. The same requirements and criteria exist as in the Senior Internship I course.
WORK INITIATIVES I & II (WIN) 
(18 weeks) 2.0 Credits

90066 Working Initiatives (WIN) provides students with the opportunity to be released from school, to participate in a paid worked based learning experience, and to earn credit toward graduation. Students are responsible for finding their own employment and transportation. To earn credits, a minimum of 15 hours per week of work is required. Students will be evaluated by their employer. The WIN coordinator will periodically visit the work site in order to obtain feedback from the business and discuss any work-related issues. The WIN coordinator will share this information with the student. Please note: Students not having employment after 3 weeks may be removed from the program and returned to a traditional classroom schedule.

90067 Juniors and seniors wishing to participate in WIN for the entire school year should also select Work Initiatives Practicum II.

EARLY RELEASE

99013 (Half Year)
99012 (Full Year)

Students must select enough credits to remain in the building through period 3. A student requesting early release must be in good academic standing at the time they apply for early release. Students who take advantage of early dismissal must leave the school building and campus immediately upon their dismissal from their final regular class of the day. Students must consult with their counselor during registration to make sure that any request for early release meets the above criteria and is planned as an integral part of their high school education. An early dismissal request card must be obtained by the student and must be returned, signed by a parent prior to the student scheduling Early Release. Scheduling conflicts may preclude a student from taking early release.

SCHOLARS LEADERSHIP SEMINAR

(18 weeks) 0.5 Credit

11th or 12th grade students only on the Scholar’s Diploma track

90017 Leadership is the key to success in every profession or structure of an organization. This required course for the Scholar’s Diploma has been designed to help students develop, practice and enhance leadership skills while building leadership capacity. In addition to leadership dialogue with local community and corporate leaders, students will engage in experiential learning opportunities and will be challenged to:

- Develop action plans to address global, regional and local community issues using multiple perspectives
- Plan and conduct a study and/or investigation
- Plan and produce communication in various forms
- Collaborate to solve authentic problems
- Develop frameworks for effective teamwork, self-direction, social responsibility, accountability and other life skills
COLLEGE & CAREER SKILL DEVELOPMENT
(18 weeks) 0.5 Credit
90016 This half credit, senior only elective course is designed for students to engage in highly interactive and experiential learning that is specifically designed to aid individuals in the process of discovering and developing the skills necessary for post-secondary success. Students will engage in group/cooperative activities to foster the development of 21st century skills such as communication, leadership, teamwork, collaboration and problem solving. Unlike the former required Culminating Project course, students will no longer be required to complete a practicum in this course.
Tell me and I’ll forget; show me and I may remember; involve me and I’ll understand. - Chinese Proverb

HATTERS HELPING HATTERS
(18 weeks) 0.5 Credit
90061 Hatters Helping Hatters is an opportunity for students who want to serve within the high school community through community service. Examples of opportunity include working with teachers in classrooms, assisting special needs children in classes, supporting the TV studio, assisting with technology, and working in various high school offices and/or with the athletic director. Opportunities are limited and are need based. HHH is a pass/fail learning experience. Please discuss with your school counselor if interested in service-to-school learning experiences available during the school year.

LINK CREW CLASS
(18 weeks) 0.5 Credit
90061A Interested students should be strong leaders, have consistent attendance, a willingness to help others, are comfortable talking in front of groups, and have a positive attitude. Students need to follow an application process for selection into Link Crew, as only Link Leaders are eligible for the class. To be selected for Link Crew, students must apply and come to an informational meeting in early February, and interview mid-February. Selected students will find out if they are accepted in late February or early March. It is strongly recommended for any student in Link Crew Club, to take Link Crew class at least once. In class, students learn the basics of facilitating both large and small groups, evaluate presentation and facilitation styles, and work in teams on school wide projects. Units of study include: Team and Climate Building, Organization, Leadership, Communication, Facilitating and Teaching and Personal Development.
Dual Enrollment

Students taking a college course for remediation, enrichment or in lieu of a high school subject must get the approval of the appropriate department chairperson and counselor at the high school. A transcript must be received from the college before high school credit is awarded. The grades received for these courses will not be included in either the GPA or the class rank. However, the courses taken will be noted on the transcript. For further information about Dual Enrollment, see your counselor. The school district will not assume responsibility for the cost of the course.

Dual Enrollment partners include Seton Hall University, MCCC, and The Art Institute of Philadelphia.

The Gifted Support Program

Gifted Support Program – This program is available to students in grades nine through twelve who have been identified as gifted through a comprehensive multidisciplinary evaluation. Students in this program may take a half credit Enrichment seminar course each year.

THE GIFTED SUPPORT PROGRAM
Full year
0.5 credit
97009 Enrichment 9 | 97010 Enrichment 10 | 97011 Enrichment 11 | 97012 Enrichment 12

97100 Bridges
The Bridges program is an optional internship opportunity available to gifted juniors and seniors. It is 60 hours in length, and students receive one-half (1/2) credit upon successful completion. Bridges is a graded course (A-F); students’ grades appear on their transcript but do not count toward GPA or class rank. No credit will be given if all requirements are not met.

The gifted support program is available for students in grades 9 - 12 who have been identified as gifted as the result of a comprehensive multidisciplinary evaluation. The gifted support teachers meet with each student to individualize the student’s program, including independent study opportunities. In consultation with the student’s parents, a GIEP is developed annually. Students, who select seminar, meet formally in a seminar once a week and regularly on an informal basis. Classes focus on developing and using higher-order thinking skills. In addition, students are expected to participate in a minimum of three culturally-related field trips each year and to perform community service. Juniors are encouraged to participate in a one-day job shadow as part of the career and college planning program discussed junior year. In addition, juniors, and in some cases sophomores, are eligible to participate in Bridges, a professional level internship program. All students are encouraged to take advantage of the many opportunities available at the high school, including AP courses, seminars and workshops sponsored by colleges and local organizations and academic contests. Students earn 0.5 credits per year, and grading for Enrichment is on a pass/fail basis. The Bridges program is a graded course.
ADVANCED PLACEMENT ELECTIVES

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CUSTOMIZED LEARNING PROGRAMS

Customized Learning Programs give students the opportunity to learn in an expanded educational environment. These programs take advantage of a variety of resources outside the traditional structure of the high school. For example, these programs may include online coursework or coursework at the college or university campus. A Customized Learning Program is initiated by the student and approved by the parent(s), school counselor, and principal. Prerequisites and credit may vary.

INDEPENDENT ONLINE COURSEWORK

Independent Online Coursework outside of the traditional school day is initiated by the student and approved by the appropriate administrator, faculty member(s), the department chairperson (if applicable), counselor, and parent(s)/guardian(s). Students are not supervised by a member of the Hatboro-Horsham High School faculty. The online coursework is governed by online provider. Students interested in Independent Online Coursework should contact their counselor. As long as students meet the minimum required HHSD student load, students may seek permission to enroll in online elective courses that are not being offered at Hatboro-Horsham High School. All costs associated with online courses are the responsibility of the student and family.

ENROLLMENT IN COLLEGE PROGRAMS

Students may enroll in area college classes during the school day or in the evening in order to gain early college experience. High school credit may be granted subject to written approval in advance by the Principal. Some courses may require the student to take a placement test before being approved. Students/Families are responsible for all costs related to the College Program including tuition, fees, books, and transportation. Interested students who wish to obtain more information about this program are encouraged to meet with their counselor.

APPROVAL FOR EXTERNAL CREDITS

High school students earning course credit outside of the Hatboro-Horsham High School curriculum must receive approval from the High School Administration before having it placed on their transcripts. After obtaining approval and successful completion of the course, credit will be granted toward graduation and the grade will be designated on the student’s high school transcript as earned but will not be calculated into the GPA (Alternative Instruction Policy #124). Documentation of the course title on the student’s high school transcript will be exactly the same as the course title is documented on the official notification from the external agency supervising the coursework. Students are to meet with their high school counselor prior to taking any external course work to discuss the process for receiving approval for such coursework.
PROGRAMS OF SPECIAL EDUCATION

Special Education services and supports are available to eligible students attending HHHS. Eligibility for special education is determined by a multi-disciplinary team following receipt of signed consent from parent(s)/guardian(s). Members of this team will determine student’s eligibility for special education supports and services and the student’s need for specially designed instruction. If a student is found eligible for special education services, an Individualized Education Program (IEP) is developed by an IEP team that includes parent(s)/guardian(s). Parents/guardians are provided with a Notice of Recommended Placement (NOREP) that supports the appropriate service in the least restrictive environment. Special education services will begin when the District receives written consent from the parent(s)/guardian(s) in the form of an approved NOREP.

The District has special education services for students requiring Learning Support, Specialized Learning Support, Emotional Support, and Autistic Support, as well as related services for eligible students (i.e. speech/language therapy, physical therapy, occupational therapy, hearing therapy, vision therapy, and itinerant emotional support). The IEP team determines how special education services will be provided to the students in the least restrictive setting.

**Special Education Courses**
Student must be recommended for these courses by the IEP team.

**ADAPTIVE PHYSICAL EDUCATION**
1.5 Credit
82012 Selected by the IEP team based on individual student need.

**Learning Support**

**ENGLISH 9 - 12**
(Full year – every other day) 1.0 Credit
Placement in any of the following courses is based on performance data. Each course is designed for students who are experiencing difficulty with comprehension and/or written expression. Through a systematic, research-based approach, students will develop reading and writing strategies to negotiate various texts, specifically adapted literature based and non-fiction materials. In addition, students will practice strategies to develop research skills to support research based learning and in understanding higher order critical reading skills. Test-taking skills and study strategies will be emphasized along with writing as a tool to enhance learning and support comprehension. Students earn grades based on class participation, homework, classwork, projects, quizzes and tests.

**ENGLISH 9 19098**
**ENGLISH 10 19101**
**ENGLISH 11 19111**
**ENGLISH 12 19121**
LITERACY STRATEGIES
(18 Weeks) 1.0 Credit
Grades 9 -12 Selected by the IEP team based on individual student need.

Literacy strategies are taught to support specific individual IEP goals through whole group, small group and individual instruction. A metacognitive approach is emphasized which incorporates pre-reading, during-reading and post-reading strategies as well as writing skills. Students earn grades based on a combination of homework, classwork, projects, quizzes and test scores.

MATH 9
(Full year – every other day) 1.0 Credits

39095 Designed to provide students with an understanding and/or review of the essential concepts necessary for further advancement in mathematics. Topics covered will include working with number systems, operations of whole numbers, decimals, fractions and percent, order of operations, factoring, variables, exponents, formulas and algebraic expressions. Technology, including calculators and computer software programs, will be incorporated to appropriately supplement the text.

MATH 10
(Full year – every other day) 1.0 Credits

39104 Designed for those students who have successfully completed Math 9, and to continue their study of Algebraic concepts. Topics to be covered include further exploration of algebraic equations, proportions, graphing in the coordinate plane and the use of variables. Technology, including calculators and computer software programs, will be incorporated to appropriately supplement the text.

MATH 11
(Full year – every other day) 1.0 Credits

39114 Designed for those students who have successfully completed Math 10, or who are recommended by their previous math teacher for the course. Students will be introduced to the computational aspects of geometry. Topics may include points, lines, planes, graphing, angles, polygons, parallel and perpendicular lines, congruency and proofs. Technology, including calculators and computer software programs, will be incorporated to appropriately supplement the text.

MATH 12
(Full year – every other day) 1.0 Credits

39122 Designed to provide an emphasis on consumer based uses of mathematics such as: earning money, credit/debit/loans, banking, housing, taxes, budgeting and travel/vacation.

SCIENCE 9
(18 Weeks) 1.0 Credits

49091 The Physical Science section is designed to help students develop a better understanding of the chemical nature of the world around us. The Applied Physical Science section is a study of the relationship between matter and energy. Practical information that can be applied to life skills is used throughout the year. Students will observe demonstrations concerning the various topics.
**SCIENCE 10A**
(18 Weeks) 1.0 Credits

49101 This is an introductory course that covers basic topics of biology. This course will cover a review of the scientific method, characteristics of life, diversity of cells, cell structures and functions, and basic topics of biochemistry, DNA, heredity and evolution. Students will learn through hands on experiences such as nature walks, experiments, demonstrations and virtual simulations.

**SCIENCE 10B**
(18 Weeks) 1.0 Credits

49103 This is an introductory course that covers topics of environmental studies. This course will cover ecosystems and their special relationships. It will cover how material is recycled through an ecosystem and endangered/ extinction of species.

**SCIENCE 11**
(18 Weeks) 1.0 Credits

49111 This is an introductory course that covers topics of Forensics for the first quarter and weather related Disasters for quarter two. In Q1, Forensics, concepts covered are; crime scene investigation personnel, their jobs and how crime scene investigation is done. Other topics covered are types of evidence and tools used by investigators to determine the victim or how a crime is committed. In Q2, Disasters, topics covered are: types of disasters, characteristics of the disaster types and how areas are responding to these disasters before, during and after a catastrophic event. Other topics covered are researching a disaster and exploration of new techniques developed by the national government to handle the impacts of the different disaster types.

**SOCIAL STUDIES 9**
(18 Weeks) 1.0 Credits

29091 The American History section is designed to help students develop a better understanding of U.S. History. It includes the study of these periods in American History: Colonial America, the Revolutionary War, the development of the U.S. constitution, the Civil War, the Great Depression, World Wars I and II, as well as Post War America.

**SOCIAL STUDIES 10**
(18 Weeks) 1.0 Credits

29101 This required study of History explores key events and global historical developments since 1450 C.E. As a result, students will be able to understand how these events of the past provide direct links to the issues and progress and/or problems of today.

**SOCIAL STUDIES 11**
(18 Weeks) 1.0 Credits

29111 The study of American Government/Civics is designed to help students understand how the present governmental system was developed, its components and their jobs. The students will study the history of government, government theory, and government as it is today on both the National and State level.

**Personal Perspectives**
(18 weeks every other day) 0.5 Credit
Grades 10 – 12 Selected by the IEP team based on individual student need.
This course focuses on students’ executive functioning skills. Students learn to identify their strengths and weaknesses in areas including but not limited to organization, flexibility, working memory, impulse/emotional control, self-monitoring, task initiation, planning/prioritizing, and metacognition. Students start by building a sense of community so they may later work on skills in a supportive environment where they feel valued, respected, and comfortable. Students work together to discover new strategies to apply to their lives in school and at home, while making realistic plans for their future. There are opportunities for self-reflection, communication, information processing, group collaboration, discussion, and the creation of an individual plan for success which identifies areas of weakness and builds strengths needed to be successful in the future.

**Emotional Support**

**ES Social Studies 9 - 12**
(18 weeks – every day) 1.0 Credit
Selected by the IEP team based on individual student need.

The course is designed for students who are experiencing difficulty with utilizing pro-social coping skills when experiencing high levels of emotionality within the school setting. Through a systematic, research-based approach, students will develop their social-emotional skills by engaging in social studies learning activities that promote the use of effective communication, collaboration, critical thinking, and creativity, when responding to text, writing prompts, and visual media. The curriculum is delivered in a smaller class setting that is highly individualized based on student IEP goals and current learning needs. Students earn grades based on weekly teacher assessment of student performance based on the daily utilization of pro-social coping skills, classwork, projects, quizzes and tests.

**ES Math 9 - 12**
(18 weeks – every day) 1.0 Credit
Selected by the IEP team based on individual student need.

**ES Science 9 - 12**
(18 weeks – every day) 1.0 Credit
Selected by the IEP team based on individual student need.

The course is designed for students who are experiencing difficulty with utilizing pro-social coping skills when experiencing high levels of emotionality within the school setting. Through a systematic, research-based approach, students will develop their social-emotional skills by engaging in learning activities that promote the use of effective communication, collaboration, critical thinking, and creativity, when responding to text, writing prompts, and visual media. The curriculum is delivered in a smaller class setting that is highly individualized based on student IEP goals and current learning needs. Students earn grades based on weekly teacher assessment of student performance based on the daily utilization of pro-social coping skills, classwork, projects, quizzes and tests.
and current learning needs. Students earn grades based on weekly teacher assessment of student performance based on the daily utilization of pro-social coping skills, classwork, projects, quizzes and tests.

**ES English 9 - 12**
(18 weeks – every day) 1.0 Credit
*Selected by the IEP team* based on individual student need.

The course is designed for students who are experiencing difficulty with utilizing pro-social coping skills when experiencing high levels of emotionality within the school setting. Through a systematic, research-based approach, students will develop their social-emotional skills by engaging in learning activities that promote the use of effective communication, collaboration, critical thinking, and creativity, when responding to text, writing prompts, and visual media. The curriculum is delivered in a smaller class setting that is highly individualized based on student IEP goals and current learning needs. Students earn grades based on weekly teacher assessment of student performance based on the daily utilization of pro-social coping skills, classwork, projects, quizzes and tests.

**Personal Perspectives**
(18 weeks every other day) 0.5 Credit
Grades 10 – 12 *Selected by the IEP team* based on individual student need.

**98232**  This course offers opportunities for instruction and self-exploration with a focus on practice and application of learned skills and strategies. The 4 main units of study include Planning for Your Future, Effective Communication, Managing Your Emotions, and Your Current and Future Employment. The course incorporates daily reflection and feedback on progress in order to help facilitate students’ ownership of progress. There is also a self-driven project-based component to the course which allows students to feel engaged and productive in the academic setting.

**LIFE SKILLS**
These courses stress the strengthening of fundamental academic skills and the skills needed to become a productive and responsible citizen. Most students in these courses take courses in the four academic areas of language arts/reading, mathematics, social studies, and science/health. When appropriate, students may be placed into regular classes or into the Learning Support classes in one or more of these areas. Also available are elective courses, courses taught by regular education teachers, work experience courses and programs, and vocational-technical education.

**Life Skills Program Math (full year) 1.0 credit**
9th & 10th - 90037 | 11th & 12th - 90041
*A student is recommended for this course by the IEP team.* This is a functional, hands-on curriculum to support transition to postsecondary training/skills, employment, and/or independent living. Small group, specialized instruction focused to aid in accessing daily living math activities and skill development. Focus of the course follows a continuum of skill development that addresses needs for life beyond school programming. Community based instructional experiences aid in generalizing instruction and practice of skills in authentic settings.
Life Skills Program English (full year) 1.0 credit
9th & 10th - 90038 | 11th & 12th - 90042
_A student is recommended for this course by the IEP team._ This is a functional, authentic skill based curriculum to support transition to postsecondary training/skills, employment, and/or independent living needs. Small group, specialized instruction focused to aid in accessing reading activities and skill development centered on life activities and needs. Focus of the course follows a continuum of skill development that addresses needs for life beyond school programming. Community based instructional experiences aid in generalizing instruction and practice of skills in authentic settings.

Life Skills Program Science (full year) 1.0 credit
9th & 10th - 90039 | 11th & 12th - 90043
_A student is recommended for this course by the IEP team._ This is a functional, skill based approach focused on key concepts of Science that are applicable to real-life experiences supporting transition to postsecondary training/skills, employment, and/or independent living needs. The science concepts are embedded within the math, English, transition training assignments, health lessons, and community based instruction by way of authentic opportunities for learning.

Life Skills Program Social Studies (full year) 1.0 credit
9th & 10th - 90040 | 11th & 12th - 90044
_A student is recommended for this course by the IEP team._ This is a functional, skill based approach focused on key concepts of Social Studies that are applicable to real-life experiences supporting transition to postsecondary training/skills, employment, and/or independent living needs. The social studies concepts are embedded within the math, English, transition training assignments, health lessons, and community based instruction by way of authentic opportunities for learning.

**ACT – Authentic Career and Transition**

_Credit determined on individual student basis_

_Program determined by IEP Team_

The Authentic Career and Transition (A.C.T.) Program is designed to provide students with vocational assessments, training and experience in anticipation of adult employment by including the community as the classroom. It will provide opportunities to learn new functional and daily living skills as well as to practice application of skills learned in high school. The IEP team will decide when a student will take this course and discussion regarding the course will begin in the 10th or 11th grade annual IEP meeting.
Eastern Center for Arts and Technology
2019-2020 High School Program Offerings

NEW in 2019-2020

HHHS will attend Eastern Center in both the AM and PM session.

Actual attendance will be determined by Eastern and availability of space in each program.

- Allied Health
- Automotive Technology
- Business and Technology Professional
- Collision Repair Technology
- Commercial Art
- Computer Network Administration
- Construction Technology
- Cosmetology
- Culinary Arts
- Electrical Technology
- Heating, Ventilation and Air Conditioning
- Protective Services
- Veterinary Science
- Welding Technology
Programs at Eastern Center for Arts and Technology

EASTERN is accredited by the Middle States Association of Colleges and Schools. The campus is located in Willow Grove and is owned by nine school districts in Eastern Montgomery County. They include Abington, Bryn Athyn, Cheltenham, Hatboro-Horsham, Jenkintown, Lower Moreland, Springfield, Upper Dublin and Upper Moreland.

More information about EASTERN is available at [www.eastech.org](http://www.eastech.org).

Programs taken at EASTERN are considered part of the high school program and count as elective credit toward graduation. Programs enrich the student’s high school experience. They give students the opportunity to reinforce their career path after high school, get a head start in collegiate studies in that field and get ready for employment. Most of the half-day programs offer advanced placement college credit opportunities for students continuing their education after high school in similar majors. The options include:

**Career programs** are scheduled 5 days a week for 2 hours 45 minutes from 7:45 a.m.–10:30 a.m. or 12:00 p.m. to 2:45 p.m. in 14 career areas are primarily offered to 11th and 12th grade students. They are recommended as a two-year sequence for students, except Allied Health, which is a senior-only option. If space is available, one-year seniors are accepted into all programs.

- A work experience program is available to qualified second-year students incorporating on-site job experiences with classroom learning.
- Many programs offer advanced placement/college credit options at colleges like DeVry University, Johnson & Wales University, Pennsylvania College of Technology, Lincoln Technical Institute, CHI, Harcum College, and Bucks and Montgomery County Community Colleges.

**EASTERN students may qualify for up to 9 free college credits through Perkins state-wide articulation agreements. All statewide articulation agreements can be found at** [www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx](http://www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx)

**Students/parents will be solely responsible for tuition and fees for MCCC dual enrollment.**

**Please note that there are course material fees for tools of the trade and required clothing related to several programs. Families with a financial need should contact Ferne Andre, 215-784-4800 Ext. 314, or Amy Shields at 215-784-4806.**
ARTS, HUMAN SERVICES AND HOSPITALITY CAREER CLUSTER

COMMERCIAL ART
You’ll develop your own portfolio! This two-year career program covers everything from conceptual drawing and design to a professional portfolio. Students learn the value and application of their unique styles in both design and illustration and how to use industry-standard software on the Macintosh platform. Core software includes Adobe InDesign, Adobe Photoshop and Adobe Illustrator. Upon completion of the program, students will have a portfolio consisting of items for entry into their postsecondary school of choice as well as National Portfolio Day. Senior students will have their portfolios reviewed by art school representatives. One-year seniors will be considered if space is available.

Career Pathways: Program prepares students for careers in commercial illustration, image editing and graphic design. With further education and experience, students can find opportunities in occupations such as graphic design, commercial illustration, digital imaging design, animation, computer-generated graphic art, and multi-media specialist.

Postsecondary/Advanced Placement: Students have continued their education at Fashion Institute of Technology, Full Sail University, Hussian College, IUP, Kutztown University, Marywood University, Montgomery County Community College, Pennsylvania College of Art and Design, Penn State Abington, Temple/Tyler School of Art, University of the Arts and West Chester University.

Students may qualify for advanced placement college credits at Pennsylvania College of Technology, Penn State Abington, and Hussian College.

Industry Certifications: Students can take the Adobe Certified Associate (ACA) certification exam. ACA certification offers students a foundation for success by validating their digital skills.

Materials and fees: Approximately $125 - $155.

COSMETOLOGY
Save thousands of dollars by taking this program in high school! This two-year program will provide the skills necessary to begin a career in the cosmetology field. In Pennsylvania, as well as other states, cosmetologists must be licensed to practice in the field. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for a career as a cosmetologist. After obtaining a cosmetology license, graduates can find opportunities in occupations such as a salon, salon management, teaching, product representation, and development and design.

Postsecondary/Advanced Placement: Students have continued their education at Bucks County Community College, Community College of Philadelphia, and Lansdale School of Cosmetology.

Industry Certifications: After completion of the required 1,250 hours, students are prepared to take the Pennsylvania State Board of Cosmetology licensing exam.

Materials and fees: Approximately $500 - $650
CULINARY ARTS

Don’t be afraid to take whisks! Build your culinary skills and techniques at EASTERN so you can compete in this field. Students also have the potential to earn up to nine transferable college credits through a statewide articulation agreement with Montgomery County Community College. This two-year half-day program enables students to acquire a variety of skills including soup and sauce preparation, preparation of meat, fish and poultry entrees, baking, kitchen sanitation, purchasing and inventory controls. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as a prep cook, cook, or chef. With further education and experience, students can find opportunities in occupations such as food and beverage management, grocery and retail prepared foods, country club food services, cafeteria production and fast food franchise food production.

Postsecondary/Advanced Placement: Students have continued their education at Art Institute of Philadelphia, Bucks County Community College, Culinary Institute of America, Indiana University of PA, Culinary Institute of America, Delaware Valley College, Johnson and Wales University, Millersville University, Montgomery County Community College, Penn State, Temple University, The Restaurant School, and Widener University.

Culinary students continuing their education in this field may also qualify for advanced placement college credit at Pennsylvania College of Technology and articulation credit with Montgomery County Community College.

Industry Certifications: Students can earn ServSafe Food Handlers certification, which is an entry-level food safety training and certificate program administered by the National Restaurant Association; ServSafe Manager certification, which is required in a food services supervisory role; and S/P2 – Culinary, which is an online certification that teaches safety, sanitation, and career readiness skills.

Materials and fees: Approximately $135 - $150
BUSINESS, COMPUTER AND PUBLIC SAFETY CAREER CLUSTER

BUSINESS AND TECHNOLOGY PROFESSIONAL
Explore the possibilities of professionalism! Some of the best paying jobs in the U.S. are those that require computer skills, professionalism and communication skills. The Business and Technology Professional program will prepare students for a career in a professional business environment. In this two-year half-day program, students study the current Microsoft Office applications including Word, Excel, PowerPoint, Outlook, and other communications technologies. Students will leave the program well-versed on creating spreadsheets, composing correspondence, managing databases, creating presentations, document management and on the use of office machines. Students will enhance their communication, independent thinking, problem-solving, interpersonal, and soft skills. One-year seniors will be considered if space is available.

Career Pathways: Program prepares students for entry level employment as data input specialist, customer service representative and administrative assistant. With further education and experience, students can find opportunities in occupations such as human resources, legal office manager, health records management, accounting clerk and office manager.

Postsecondary/Advanced Placement: Students have continued their education at Clarion University, Community College of Philadelphia, Johnson and Wales University, Montgomery County Community College, Northampton Community College, Pennsylvania College of Technology and Temple University.

Business and Technology Professional students may participate in dual enrollment with Montgomery County Community College for 9 transferable college credits.

Industry Certifications: Students will obtain Microsoft Office Specialist - Word certification.

Materials and fees: Year 1 - approximately $387; Year 2 – approximately $187. Fees are subject to change based on MCCC tuition rates. Business attire required. Access to a working computer (Windows) is a must.

COMPUTER NETWORK ADMINISTRATION
Be a college student while still in high school! While in EASTERN’s Computer Network Administration program, you can choose to enroll in Montgomery County Community College for up to 12 transferable credits! In this two-year half day program, students must pass the Cisco Certified Entry Networking Technician (CCENT) in the first year of the program and are prepared for other industry certification exams in Microsoft Server and Linux. One-year seniors will be considered if space is available in the program. More and more businesses need network administrators now. Get your start here!

Career Pathways: Program prepares students for careers in network and systems administration. With further education and experience, students can find opportunities in occupations such as network and computer administrator, computer network support specialist, network engineer and security.
Postsecondary/Advanced Placement: Students have continued their education at Montgomery County Community College, Penn State Abington, Pennsylvania College of Technology, Temple University, Drexel University, and IUP.

Students may participate in dual enrollment for up to 12 transferable college credits at Montgomery County Community College. They also can receive guaranteed admission into Penn State Abington’s School of Information Sciences and Technology if they meet PSU criteria and may receive advanced placement at Pennsylvania College of Technology.

Industry Certifications: Students will obtain Cisco Certified Entry Networking Technician (CCENT).

Prerequisites: Strong math background recommended.

Materials and fees: Approximately $400-$600 per year (includes college tuition and books). Access to a working computer (Windows) is a must.

PROTECTIVE SERVICES
Action, adventure and saving lives! You’ll earn several certifications to give you a head start on careers in this field. This two-year half-day class is a multi-disciplined program developed in consultation with a countywide advisory committee of law enforcement, fire science, security professionals and post-secondary institutions. Detailed instruction is provided on leadership, criminal, motor vehicle crash and fire investigation, first responders, security systems, terrorism, firefighting, hazardous materials and emergency communications. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for careers in firefighting, security, emergency medicine, law enforcement and corrections. With further education and experience, students are can find opportunities in occupations such as Fire Marshal or fire line officer, police department administrator or police line officer, industrial security administrator, corrections, EMS or commercial security administrator.

Postsecondary/Advanced Placement: Students have continued their education at Alvernia University, Bloomsburg University, Community College of Philadelphia, Kutztown University, Lock Haven, Millersville University, Montgomery County Community College, Penn State, Shippensburg University and all branches of the U.S. Military.

Industry Certifications: Students can earn Hazardous Materials Awareness and Operations through testing by Bucks County Community College, and CPR, First Aid and AED through testing by the American Red Cross or American Heart Association. Students also earn certificates in the National Incident Management System levels 100, 200, 700 and 800.

Prerequisites: Students must undergo a state police check to enroll in the program and work in this field.

Materials and fees: Approximately $200
CONSTRUCTION CAREER CLUSTER

CONSTRUCTION TECHNOLOGY
Lay the foundation for a towering future! Get satisfaction from building projects and working with current materials used in the field to refine your construction skills. This two-year career program is the first step for students interested in pursuing a successful career in the construction field. Students will work on both residential and commercial construction in the school’s lab area. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as carpenter pre-apprentice, exterior remodeling and installation, and roofing and siding. With further education and experience, students can find opportunities in occupations such as general contractor, renovations and remodeling specialist, architect, finish carpenter or specialty contractor.

Postsecondary/Advanced Placement: Students have continued their education at Montgomery County Community College, Pennsylvania College of Technology, Penn State Abington, Thaddeus Stevens College of Technology and Williamson Trade School.

Students may qualify for advanced placement college credit at Pennsylvania College of Technology or want to consider an apprenticeship program after high school.

Industry Certifications: Students can earn Occupational Safety and Health Administration 10 certification, and S/P2 – Construction, which is an online certification that teaches safety and career readiness skills.

Materials and fees: Approximately $85 - $100

ELECTRICAL TECHNOLOGY
A world without electricity is hard to imagine! Our training will provide the essential hands-on and safety skills that a student needs to pursue a rewarding career in the electrical construction industry. This two-year multi-faceted career program enables the student to learn the basics of electricity as well as residential and commercial wiring, data cabling and basic fiber optic installation. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as electrician’s helper, maintenance helper, or electrician upon completion of the Journeymen’s certification. With further education and experience, students can find opportunities in occupations such as residential or commercial electrician, and electrical engineering.

Postsecondary/Advanced Placement:
Students have continued their education at Bucks County Community College, EASTERN’s Continuing Education Electrician Program, Montgomery County Community College, Pennsylvania College of Technology, Temple University, Thaddeus Stevens College of Technology and Williamson Trade School.
Students may also qualify for advanced placement college credit at Pennsylvania College of Technology or want to consider an apprenticeship program after high school.

Industry Certifications: Students can earn their Occupational Safety and Health Administration 10 certification, Ladder Safety Training provided by the American Ladder Institute and S/P2 – Construction, which is an online certification that teaches safety and career readiness skills.

Prerequisites: Students must have good color vision and the ability to climb moderate heights on a ladder.

Materials and fees: Approximately $75

**HEATING, VENTILATION AND AIR CONDITIONING**

A cool career in a hot industry! Everyone wants to be comfortable in their home or place of business. Maintaining proper cooling and heating are not luxuries – they are necessities. There is always a demand for these services. This two-year career program provides a comprehensive foundation of the basic theories and principles of heating, air conditioning and heat pump systems. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as heating and air conditioning installation technician, heating and air conditioning service technician, retail sales, and heating and air conditioning helper. With further education and experience, students can find opportunities in occupations such as residential heating, air conditioning and building maintenance.

Postsecondary/Advanced Placement: Students have continued their education at Orleans Technical College, Pennsylvania College of Technology, Penn State Abington, and Thaddeus Stevens College of Technology.

Students may also qualify for advanced placement college credit at Pennsylvania College of Technology. Through a college credit articulation agreement with University of Northwestern Ohio, students can earn up to 6 credits for Service and Procedures.

Industry Certifications: Students can earn Occupational Safety and Health Administration 10, Tracpipe, Gastite Certification, Environmental Protection Agency Refrigerant Handling, and SP/2 - Construction, which is an online certification that teaches safety and career readiness skills.

Materials and fees: Approximately $95 - $145
HEALTH SCIENCES CAREER CLUSTER

ALLIED HEALTH
Be sure a career pathway in healthcare is right for you! This one-year senior-only program is designed for students with rigorous academic preparation who plan to continue their education in college to prepare for a career in the health field. Students will get extensive clinical experiences partnering with health professionals at Abington-Jefferson Health two days a week beginning in October. This program offers the potential of earning college credits at Montgomery County Community College at reduced tuition rate. This unique opportunity provides students with a first-hand look at the many healthcare careers available to them.

Career Pathways: Students prepare for a career in the health field requiring postsecondary education. With further education and experience, students can find opportunities in occupations such as nurse, radiology technologist, physician’s assistant and licensed practical nurse.

Postsecondary/Advanced Placement: Students have continued their education at Aria Health School of Nursing, Arcadia University, Cedar Crest, Gwynedd Mercy University, Holy Family University, LaSalle University, Montgomery County Community College, Moravian College, West Chester University, York College, and Widener University.

Student can also earn up to 3 transferable credits at Montgomery County Community College through dual enrollment.

Industry Certifications: Students can earn American Heart Association CPR and First Aid certifications.

Prerequisites: Grade of ‘C’ or better in Algebra I and II, Biology and Chemistry (College Prep Level)
High school GPA of 2.5 or higher
Physical exam and police check as mandated by state law
Child abuse clearance
PPD (tuberculosis skin test)
Flu shot required
No disciplinary issues at the participating high school
Good attendance

Materials and fees: Approximately $350 - $375 (not including MCCC tuition)

VETERINARY SCIENCE
Turn your love of animals into an exciting career! Veterinary Science provides the opportunity to prepare for careers in the animal care industry and will provide students with a working knowledge of small animal industries. In this two-year half-day program, students will learn to support veterinarians by providing assistance during animal examinations; treatment administration and monitoring; managing animal and related health record information; and how to perform a range of selected practice-related duties. One-year seniors will be considered if space is available in the program.
Career Pathways: Program prepares students for entry level employment in pet and pet supply stores, grooming salons, kennel, animal humane societies, farms and ranches. With further education and experience, students can find opportunities in occupations such as veterinary technician, veterinary assistant, and animal research.

Postsecondary/Advanced Placement: Students have continued their education at colleges such as Harcum College, Manor College and Delaware Valley University.

Students who successfully complete EASTERN’s Veterinary Science program with an average grade of “B” or better may receive 3 credit hours for Harcum College’s ACM 101 – Introduction to Animal Center Management.

Industry Certifications: Students can earn Occupational Safety and Health Administration 10 – Healthcare.

Prerequisites:
- Grade of ‘C’ or better in Algebra I and II
- Grade of ‘C’ or better in Biology or Advanced Science Course (College Prep Level)
- High school GPA of 2.5 or higher
- No Animal Allergies
- No disciplinary issues at the participating high school
- Good attendance

Materials and fees: Approximately $100 - $375

TRANSPORTATION AND MANUFACTURING CAREER CLUSTER

AUTOMOTIVE TECHNOLOGY
Fast cars...great jobs! Automotive is a complex and technology-driven industry that is constantly changing. This two-year career program is designed for the student who is serious about working in the automotive industry. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as automotive technician trainee, maintenance and light repair, and under car specialist. With further education and experiences, students can find opportunities in occupations such automotive service, engineering and design, manufacturer representative, and automotive insurance industry/damage appraisal and testing.

Postsecondary/Advanced Placement: Students have continued their education at Automotive Training Center, Lincoln Tech, Ohio Technical College, Pennsylvania College of Technology, Thaddeus Stevens College of Technology, Universal Technical Institute, and University of Northwestern Ohio.

Students qualify for advanced standing through an articulation agreement with Pennsylvania College of Technology. EASTERN has established college credit articulation programs with Ohio Technical College, Universal Technical Institute, and University of Northwestern Ohio.
Industry Certifications: Students can earn Valvoline Oil, and S/P2 certification, which is an online certification that teaches safety and career readiness skills. Students will prepare to sit for the Automotive Series exams in the ASE entry-level certification program.

Materials and fees: Approximately $100 - $150

**COLLISION REPAIR TECHNOLOGY**

Customize your future! You’ll meet industry standards to be a success in this field. A student enrolled in this two-year career program benefits from a combination of classroom instruction and hands-on experience needed to carry out repairs on motor vehicles. Students benefit from the use of I-Car (Inter-Industry Conference on Auto Collision Repair) enhanced curriculum. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as automotive refinisher, sheet metal/cosmetic repair, frame/structural repair, and automotive refinisher’s helper. With further education and experience, students can find opportunities in occupations such as automotive manufacturing representative, insurance industry damage appraisal and testing, metal fabrication, safety design engineering, and collision test engineering.

Postsecondary/Advanced Placement: Students have continued their education at Automotive Training Center, Lincoln Tech, Ohio Technical College, Pennsylvania College of Technology, Universal Technical Institute, and WyoTech.

Students may qualify for advanced placement college credit at Pennsylvania College of Technology. Through a college credit articulation agreement with Ohio Technical College, Collision Repair Technology students can earn up to two Auto Body courses.

Industry Certifications: Students can earn SP/2, which is an online certification that teaches safety and career readiness skills.

Materials and fees: Approximately $130 - $175

**WELDING TECHNOLOGY**

Good welders make good money...learn how at EASTERN! This two-year career program is designed for the student who is interested in the industrial engineering field. Students will learn about the properties of different types of metals and how to join them using state-of-the-art welding equipment. One-year seniors will be considered if space is available in the program.

Career Pathways: Program prepares students for entry level employment as combination welder and welding production assistant. With further education and experience, students can find opportunities in occupations such as mechanical, aerospace or industrial engineering, business owner, equipment sales and welding engineer.

Postsecondary/Advanced Placement: Students have continued their education as postsecondary schools such as Divers Academy International, Lincoln Tech, Penn College of Technology, and Thaddeus Stevens.
Students may also qualify for advanced placement college credit at Pennsylvania College of Technology.

Industry Certifications: Students can earn Occupational Safety and Health Administration 10 and S/P2, which is an online certification that teaches safety and career readiness skills.

Materials and fees: Approximately $260