HAMilton Township Board of Education

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Dr. James Altobello, Director of Secondary Education

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Mrs. Marta Audino, Director of Student Services & Programs

Hamilton High School East

2900 Klockner Road - (609) 631-4150
Principal: Nathan Webber
Vice Principals: Lauren Brazil, Duane Robinson, Philip Zomparelli

Hamilton High School North

1055 Klockner Road - (609) 631-4161
Principal: Frank Ragazzo
Vice Principals: Dwayne Walker, Michael Walsh, Dawn White

Hamilton High School West

2720 S. Clinton Avenue - (609) 631-4168
Principal: Brian Smith
Vice Principals: Bryan Rogers, Erin Walton, Charles Zalescik

School Counselors

Ann Wilmot, Department Chairperson
Brianna Andersen, Sarah Burzin, Constance Koutsouradis, Colleen Magley, Aimee Turnbull

Curriculum Supervisors

Alejandro Batlle
Kevin Bobetich
Karen Gronikowski
Sandra Jacome
Heather Lieberman
Joanne Long
Katie Mallon
Francesca Miraglia
Erick Shio
Danielle Tan

K-12 PE/Health & World Language
Testing and Program Evaluation
6-12 Mathematics/STEAM
K-12 ESL
K-5 English Language Arts/Social Studies
6-12 Science and Applied Technology
K-5 Mathematics/Science/ESSA Grant
6-12 English/Media
6-12 Social Studies/Business/Tech (Computer) Ed
K-12 Fine & Performing Arts
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The Hamilton Township School District prohibits discrimination based on the following protected categories: race; creed; religion; color; national origin/nationality; ancestry; age; sex/gender (including pregnancy); marital status/civil union partnership; familial status; affectional or sexual orientation; gender identity or expression; domestic partnership status; atypical hereditary cellular or blood trait; genetic information; disability (including perceived disability, physical, mental and/or intellectual disabilities); or liability for service in the Armed Forces of the United States. This includes equality of educational opportunities including classroom programs, curriculum development and instructional materials. The statement confirms compliance with Title VI of the Civil Rights Act of 1954, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and Age Discrimination Act of 1975. (See Board of Education Policy Nos. 1140, 2260).

In accordance with Board of Education Policy No. 2260, the Board shall provide equal and bias-free access for all pupils to all school facilities, courses, programs, activities, and services, regardless of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability or socioeconomic status.

The Board of Education shall ensure that the district’s curriculum and instruction are aligned to the State’s Student Learning Standards and address the elimination of discrimination by narrowing the achievement gap, by providing equity in education programs and by providing opportunities for pupils to interact positively with others regardless of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability or socioeconomic status.

The Board of Education shall ensure all pupils have access to adequate and appropriate counseling services. When informing pupils about possible careers, professional or vocational opportunities, the Board shall not restrict or limit the options presented to pupils on the basis of race, creed, color, national origin, ancestry, age, marital status affectional or sexual orientation, gender, religion, disability, or socioeconomic status. The district will not use tests, guidance, or counseling materials which are biased or stereotyped on the basis of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socioeconomic status.

The Board of Education shall ensure that the district’s physical education program and its athletic programs are equitable, co-educational, and do not discriminate on the basis of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socioeconomic status.

Hamilton Township School District
Affirmative Action Officer
Rebecca Gold
609-631-4100 x3022
Email Address: rgold@hamilton.k12.nj.us
CLASS RANK/COURSE WEIGHTING

Effective with the Class of 2020, the twelfth grade (senior) final class rank will be computed after the completion of the 4th marking period (but prior to graduation) of the senior year. This class rank is calculated using a weighted system as a means of assessing more fairly the academic achievements of each student. High school courses are weighted 1.25 (AP), 1.2 (Honors), 1.1 (A level), or 1.0 (B level), with the most academically-challenging courses receiving a weight of 1.25 or 1.2 and the least academically-challenging courses receiving a weight of 1.0. For example, in Mathematics, Honors Algebra II (02056H5011) is weighted 1.2, Algebra IIA (02056E5011) is 1.1 and Algebra IB (02052G5011) is 1.0. Courses taken prior to ninth grade will not be included when determining class rank. Information regarding the method used to determine class rank is to be publicized annually in student and faculty handbooks as well as in our Program of High School Studies.

GRADE POINT AVERAGE CALCULATION

A student's grade point average is calculated by multiplying the number of credits per course times the weight of the course times the grade achieved in that course. The totals for each course are added and divided by the number of credits taken to compute a student's grade point average. An example is given below:

<table>
<thead>
<tr>
<th>Grade Numeric Equivalent GPA</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>97-100</td>
</tr>
<tr>
<td>A</td>
<td>94-96</td>
</tr>
<tr>
<td>A-</td>
<td>90-93</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>84-86</td>
</tr>
<tr>
<td>B-</td>
<td>80-83</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>C</td>
<td>74-76</td>
</tr>
<tr>
<td>C-</td>
<td>70-73</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>D</td>
<td>64-66</td>
</tr>
<tr>
<td>D-</td>
<td>63-60</td>
</tr>
<tr>
<td>F</td>
<td>0-59</td>
</tr>
</tbody>
</table>

Student's Name: B. Smith    Grade Level: 11th Grade

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Weight</th>
<th>Grade</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors English</td>
<td>5</td>
<td>1.2</td>
<td>A+ (4.3)</td>
<td>25.8</td>
</tr>
<tr>
<td>Geometry (A)</td>
<td>5</td>
<td>1.1</td>
<td>A (4)</td>
<td>22</td>
</tr>
<tr>
<td>U. S. History I (A)</td>
<td>5</td>
<td>1.1</td>
<td>A- (3.7)</td>
<td>20.35</td>
</tr>
<tr>
<td>Science (A)</td>
<td>5</td>
<td>1.1</td>
<td>B (3)</td>
<td>16.5</td>
</tr>
<tr>
<td>Spanish I (A)</td>
<td>5</td>
<td>1.1</td>
<td>A- (3.7)</td>
<td>20.35</td>
</tr>
<tr>
<td>Food for Fitness (A)</td>
<td>5</td>
<td>1.1</td>
<td>A (4)</td>
<td>22</td>
</tr>
<tr>
<td>Health (B)</td>
<td>2.5</td>
<td>1.0</td>
<td>A+ (4.3)</td>
<td>10.75</td>
</tr>
<tr>
<td>Physical Education (B)</td>
<td>2.5</td>
<td>1.0</td>
<td>A (4)</td>
<td>10</td>
</tr>
<tr>
<td>TOTALS</td>
<td>35</td>
<td></td>
<td></td>
<td>147.75</td>
</tr>
</tbody>
</table>

147.75 divided by 35 = 4.2214 – GPA

The calculation of quality points for GPA (Grade Point Average) will be determined by the final grade.
ELECTIVE COURSES

All students will be permitted to take a maximum of five (5) credits per year (exclusive of Option II courses) where the final grade received does not figure into the calculation of their GPA. **These may not include graduation requirement courses.** The students will receive a final grade which goes on their permanent record and students who receive a “C” or lower will not be eligible for the honor roll. Pass/Fail electives will no longer be available.

ENRICHMENT COURSES

Any course taken for enrichment holds no credit. No course may be taken twice for credit.

The "non-GPA course" should be identified during scheduling; however, a student may change this decision up to three (3) weeks into the course.

GRADUATION REQUIREMENTS

One hundred and twenty (120) credits are required for graduation (Class of 2013 and beyond). The following must be included:

- English - 20 credits
- Health/Physical Education - 20 credits
- U. S. History - 10 credits
- World History - 5 credits
- Mathematics - 15 credits (10 credits must be in Algebra I and Geometry)
- Science – 15 credits (5 credits must be in Biology)
- Visual and Performing Arts - 5 credits
- World Language – 5 credits
- Career Education, Consumer, Family and Life Skills or Career and Technical - 5 credits
- Personal Finance – 2.5 credits

The Board of Education shall recognize the successful completion of the secondary school instructional program only by the award of a state endorsed diploma, certifying that the pupil has met all state and local requirements for high school graduation. No other certificate will be issued. The Board shall certify annually to the County Superintendent that each pupil who has been awarded a diploma has met the requirements for graduation.

In order to qualify for a diploma, the pupil must meet all state and local requirements pertaining to the New Jersey Student Learning Standards and Attendance (Credit/Hours).

Certain pupils, with the prior permission of their parents/guardians, and the endorsement of their school counselor and high school principal, will be permitted to accelerate their high school program in order to receive a diploma in less than four years. However, to qualify for early graduation such pupils still must fulfill all of the requirements in the areas noted above. The following procedures have been established for early graduation:

- Student must submit a letter stating post-school plans;
- Initial notification must be sent to the administration no later than May of the sophomore year;
- A formal meeting must take place with parent/guardian and school counselor;
- Student must be in good academic standing;
- Student must meet current NJ Graduation Requirements;
- Student is not permitted to be the Valedictorian or Salutatorian;
- Student must pass all NJ State Assessment Requirements (as outlined by the NJDOE);
- Any other provisions noted in N.J.A.C. 6A:8-5.2 (e).
GRADE LEVEL PLACEMENT

Pupils qualify for homeroom or grade level placement when the following criteria are met:

**Freshman (Grade 9):** Promotion or transfer from Grade 8, or attain age 16 prior to May 1 of the coming school year.

**Sophomore (Grade 10):** Student with at least 30 but fewer than 59 credits.

**Junior (Grade 11):** Student with at least 60 but fewer than 89 credits.

**Senior (Grade 12):** Student with 90 or more credits, and can meet all graduation requirements within the current year’s schedule.

ELA AND MATH ASSESSMENT REQUIREMENTS FOR THE CLASSES OF 2021 AND 2022

On June 5, 2019, the New Jersey Department of Education (NJDOE) updated the high school graduation assessment requirements in both English Language Arts/Literacy (ELA) and mathematics for the Classes of 2019 through 2022, pursuant to an amended Consent Order from the Appellate Division of the Superior Court of New Jersey.

The high school assessment graduation requirements that are in place for the Classes of 2021 and 2022 are:

In **English Language Arts/Literacy**, students must demonstrate proficiency:
1. On NJSLA/PARCC ELA 10; or
2. By meeting the designated cut score on an alternative assessment such as other high school-level NJSLA/PARCC assessments, the SAT, ACT, or ACCUPLACER as defined in the chart below; or
3. By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

In **mathematics**, students must demonstrate proficiency:
1. On NJSLA/PARCC Algebra I; or
2. By meeting the designated cut score on an alternative assessment such as other high school-level NJSLA/PARCC assessments, the SAT, ACT, or ACCUPLACER as defined in the chart below; or
3. By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

Proficiency levels/cut scores for the Classes of 2021 and 2022 are specified in the chart below.

*Note:* Special Education students, whose Individualized Education Plans (IEPs) specify an alternative way to demonstrate proficiencies, will continue to follow the graduation assessment requirements set forth in their IEPs.
ELA AND MATH ASSESSMENT REQUIREMENTS FOR THE CLASS OF 2021 AND 2022

This document reflects the high school graduation assessment requirements for the Classes of 2021 and 2022, pursuant to an amended Consent Order received by the NJDOE from the Appellate Division of the Superior Court of New Jersey on June 5, 2019.

These requirements now apply to the Classes of 2021 and 2022.

<table>
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<th>Pathways Available</th>
<th>English Language Arts (ELA)</th>
<th>Mathematics</th>
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</thead>
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<tr>
<td><strong>First Pathway:</strong></td>
<td>NJSLA/PARCC ELA Grade 10 ≥ 750 (Level 4)</td>
<td>NJSLA/PARCC Algebra I ≥ 750 (Level 4)</td>
</tr>
<tr>
<td>Demonstrate proficiency in the high school end-of-course NJSLA/PARCC assessments in ELA-10 and/or Algebra I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Second Pathway:</strong></th>
<th>Second Pathway: Demonstrate proficiency in English language arts and/or mathematics by meeting the designated cut score on one of the alternative assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>• NJSLA/PARCC ELA Grade 9 ≥ 750 (Level 4), or</td>
<td>• NJSLA/PARCC Geometry ≥ 725 (Level 3), or</td>
</tr>
<tr>
<td>• NJSLA/PARCC ELA Grade 11 ≥ 725 (Level 3) or</td>
<td>• NJSLA/PARCC Algebra II ≥ 725 (Level 3) or</td>
</tr>
<tr>
<td>• SAT Critical Reading (taken before 3/1/16) ≥ 400, or</td>
<td>• SAT Math (taken before 3/1/16) ≥ 400, or</td>
</tr>
<tr>
<td>• SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) ≥ 450, or</td>
<td>• SAT Math Section (taken 3/1/16 or later) ≥ 440, or</td>
</tr>
<tr>
<td>• SAT Reading Test (taken 3/1/16 or later) ≥ 22, or</td>
<td>• SAT Math Test (taken 3/1/16 or later) ≥ 22, or ACT or ACT PLAN Math(*1) ≥ 16, or</td>
</tr>
<tr>
<td>• ACT Reading or ACT PLAN Reading(*1) ≥ 16, or</td>
<td>• ACCUPLACER Elementary Algebra ≥ 76, or</td>
</tr>
<tr>
<td>• ACCUPLACER WritePlacer ≥ 6, or</td>
<td>• Next-Generation ACCUPLACER Quantitative Reasoning, Algebra, and Statistics (QAS) (beginning January 2019)(**2) ≥ 255, or</td>
</tr>
<tr>
<td>• ACCUPLACER WritePlacer ESL ≥ 4, or</td>
<td>• PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) ≥ 40, or</td>
</tr>
<tr>
<td>• PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) ≥ 22, or</td>
<td>• PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) ≥ 40, or</td>
</tr>
<tr>
<td>• ACT Aspire Reading (*1) ≥ 422, or</td>
<td>• ACT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) ≥ 22, or</td>
</tr>
<tr>
<td>• ASVAB-AFQT Composite ≥ 31</td>
<td>• ACT Aspire Math(*1) ≥ 422, or</td>
</tr>
<tr>
<td>*1 Test is no longer administered but can be used for the graduating year.</td>
<td>• ASVAB-AFQT Composite ≥ 31</td>
</tr>
<tr>
<td>**2 Beginning on Monday, January 28, 2019, classic ACCUPLACER tests were no longer available. QAS replaced ACCUPLACER Elementary Algebra.</td>
<td></td>
</tr>
</tbody>
</table>
COLLEGE AND CAREER READINESS
Entrance requirements vary greatly among colleges, universities, and technical schools. The best preparation and readiness for college and career is an appropriately challenging high school academic program. Most selective colleges use the strength of a student’s academic schedule as a primary factor in admissions decisions. Students should seek additional information via Family Connection, https://connection.naviance.com/nbrhs. Please note: High school graduation requirements may differ from college admission requirements. Minimum requirements for most four-year institutions include: • 4 years of English • 3 years of Social Studies • 3 years of laboratory Science • 3 years of Mathematics (Algebra I, Geometry, Algebra II) • 2-3 years of the same World Language

COLLEGE READINESS ASSESSMENTS
The Hamilton Township High Schools administer the PSAT 9 and PSAT/NMSQT (Preliminary SAT/National Merit Scholarship Qualifying Test). The PSAT/NMSQT measures verbal reasoning, critical reading, math problem solving, and writing skills. The PSAT is intended to provide an estimated SAT score. Students may qualify for the National Merit Scholarship Program based on their results on this standardized test. Competition for this scholarship is only available to juniors. Please visit www.collegeboard.org/psat for additional information.

COLLEGE ENTRANCE EXAMS
It is the student’s responsibility to check each institution’s admission requirements. Visit the following websites for more information and to register: www.collegeboard.org www.act.org www.fairtest.org (for institutions that are test optional) If a student requires testing accommodations, it is the parent/guardians’ responsibility to complete and submit the appropriate application to The College Board and/or ACT. Accommodations are determined by The College Board/ACT.

COURSE SELECTION PROCESS
The master schedule and staffing are determined by student course selections. Therefore, it is essential that students and parents carefully and deliberately choose their courses. Students are expected to respect course recommendations and honor their commitments to their course selections. Students will meet with their counselors to confirm course requests and address any discrepancies in recommendations. Scheduling meetings are conducted by grade beginning with rising seniors. The administrative team reserves the right to designate student placements.

Schedule/Level change requests made after the start of the school year are subject to specific criteria by the Administrative Review Committee. Note: There is no waiver form or process in place. Students and families challenging a placement must follow the course appeal process.

Schedule/Level changes will be considered for the following reasons:
• The correction of an error in the schedule including a conflict between two or more courses, failure of a prerequisite course;
• A recommendation from the Child Study Team;
• If a student is repeating a course and is assigned to a teacher with whom he or she previously received a failing grade, assignment to a different teacher will be scheduled if another teacher is available.

Schedule/Level changes will not be considered for the following reasons:
• Change of course not included in primary or alternate selections;
• Course content or expectations;
• Course not needed for graduation;
• Teacher preference or inability to relate to the current teacher;
• To lighten course load, for convenience, preference for another subject or class period, or to be with friends.

If the administrative Review Committee approves the change, the impact of the course withdrawal will be reflected on the transcript as Withdraw Pass (WP) / Withdraw Fail (WF) according to the following timeline:
- If a course is approved to be dropped during the first thirteen (13) school days of a full course, no indication of enrollment will be indicated on the report card or transcript.

- If a course is approved to be dropped after the first thirteen (13) school days of a full course, the current grade at the time of withdraw will be indicated on the report card and transcript as WF or WP.

- Timeline for half year courses will be the first seven (7) days.

National Collegiate Athletic Association (NCAA) Guidelines
Preparation for Participation in College Athletics

If a student intends to participate in NCAA Division I or II college athletics as a freshman, the student must be certified by the NCAA Eligibility Center. Certain academic criteria must be achieved in high school in order to be eligible to participate in college. The student’s counselor will identify a list of approved courses by assist in determining eligibility. The application is online at www.eligibilitycenter.org. Meeting the minimum NCAA requirements does not guarantee admission into the college of choice. Please confirm course requirements via the NCAA website at www.ncaa.org.

Pupils classified as requiring special educational programs must also meet these state and local graduation requirements unless they are exempted from part or all of them by provision(s) in their Individualized Educational Program (I.E.P.). The I.E.P. of each high school pupil must specifically address each of these graduation requirements and will set forth specific graduation requirements for that classified pupil so that fulfillment of the I.E.P. will then qualify the handicapped pupil for a state endorsed diploma. No other exemptions will be made.

Requirements for Division I, II and III as well as NAIA and JUCO differ as far as academic standards are concerned. Eligibility standards can be found at https://web3.ncaa.org/ecwr3/??links.ncaa-play-college-sports_en_US. Division I and II use a sliding scale to match test scores and GPAs to determine eligibility. To find more information visit http://www.ncaa.org/student-athletes/future/test-scores.

Academic standards also differ between Division I and II. A total of 16 core courses are needed to meet the standard for each division; however, the requirements for English, Math, Natural / Physical Science, Social Science, Foreign Language, and additional classes are slightly different.

Recommended Timeline for NCAA Division I Eligibility

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Ask your counselor for a list of your high school’s NCAA core courses to make sure you take the right classes.</td>
<td>• Register with the NCAA Eligibility Center at eligibilitycenter.org.</td>
</tr>
<tr>
<td>Grade 11</td>
<td>Grade 12</td>
</tr>
<tr>
<td>• Check with your counselor to make sure you will graduate on time with the required number of NCAA core courses.</td>
<td>• Finish your last NCAA core courses.</td>
</tr>
<tr>
<td>• Take the ACT or SAT and submit your scores to the NCAA using code 9999.</td>
<td>• Take the ACT or SAT again, if necessary, and submit your scores to the NCAA using code 9999.</td>
</tr>
<tr>
<td>• At the end of the year, ask your counselor to upload your official transcript to the NCAA Eligibility Center.</td>
<td>• Complete all academic and amateurism questions in your NCAA Eligibility Center account at eligibilitycenter.org.</td>
</tr>
<tr>
<td></td>
<td>• After you graduate, ask your counselor to submit your final official transcript with proof of graduation to the NCAA Eligibility Center.</td>
</tr>
</tbody>
</table>

NOTE: Earn at least a 2.3 GPA in your core classes.

OPTION II
Non-Traditional Course Work Options Outside of the HTSD

Students may choose to participate in Option II, provided they adhere to guidelines outlined in the Option II Plan. Course application must be approved by the school counselor, principal (or designee), curriculum supervisor, and director of curriculum & instruction prior to the first instructional meeting of the course. The course must be from an accredited institution. The accreditation must be from a recognized national, regional, specialized, and/or professional accrediting organization. The HTSD must receive an official transcript showing successful completion of the course work. Upon successful completion of the course, high school credits and grade may be awarded by certification by the Principal under 6A:8-5.1(a) 1.ii and posted on the permanent record. Option II experiences do not count toward grade point average (GPA).

FAMILY CONNECTION - Naviance

Family Connection is a comprehensive student-centered life planning service available to all Hamilton Township High School students. Family Connection empowers the student, family, and counselor to work together in planning for success during and beyond high school. All students can use Family Connection for college searches, career searches, and portfolio building for senior year. All college common applications will be sent electronically through Naviance: Parent Connection. Any student who is not familiar with the program should contact his/her school counselor. Additional information can be found through the Family Connection link under the Guidance tab on the school website.

ATTENDANCE

Pupils must meet attendance requirements before credit for any course will be granted. Pupils formally enrolled and officially in attendance for at least ninety (90) percent of the class meetings will be granted course credit. Possible exceptions to the attendance requirement due to extenuating circumstances shall be reviewed and recommended by a committee involving the teacher(s) and counselor concerned as well as a building administrator. The decision to grant any exception(s) for just cause remains with the principal. In no case will pupils be permitted "to test out" of a course for credit.

CREDIT HOURS

Pupils must meet credit hour requirements by completing the program of study assigned, as appropriate to each pupil's needs and abilities, for a minimum of 120 credits. Programs of study for all pupils shall include:

Credit hours for graduating:

1. One credit year of English for each year of enrollment, up to four credit years
2. Three credit years of Mathematics
3. Three credit years of Social Studies (World History, United States History I, & United States History II)
4. Three credit years of Science
5. One credit year of Physical Education/Health (for each year of enrollment)
6. One credit year of Visual and Performing Arts
7. One credit year of World Language
8. One credit year elective option of Business and Information Technology, Family and Consumer Science & Technology Education
9. One half credit year of Personal Financial Literacy
10. Other previously approved courses of at least high school level

Credit shall be assigned on the same basis to all high school courses offered by this Board.

Our district will cooperate for the purpose of determining appropriate, reciprocal course credit with other districts sending or receiving our pupils (e.g., Mercer County Technical Schools, Mercer County Special Services School District, etc.).
ATHLETIC PARTICIPATION/ELIGIBILITY

Students should be aware that there is a statewide and district requirement that, in order for a student "...to be eligible for athletic competition during the first semester (September 1 to January 31) of the 10th grade or higher ..., a pupil must have passed 25% of the credits required by the State of New Jersey for graduation during the immediate preceding academic year." "In order for a student to be eligible for athletic competition which begins during the second semester (February 1 to June 30) during the 9th grade or higher, a pupil must have passed the equivalent of 12½% of the credits or 13¾ academic credits required by the State of New Jersey for graduation at the close of the preceding semester (January 31)." A student turning age 19 prior to September 1 of any year is ineligible for athletic competition from September 1 of that year until she/he graduates. (This is an NJSIAA regulation.)

GUIDANCE

Hamilton High School East  631-4150 – Press 3 for Guidance
Hamilton High School North  631-4161 – Press 3 for Guidance
Hamilton High School West  631-4168 – Press 3 for Guidance

This program of studies has been prepared to assist you in planning your educational program while in high school. Educational planning is not a "mechanical" decision, but a carefully thought-out, well-planned process which involves students, families, and counselors.

Working with the counselor, each student is advised to assess his/her interests, abilities, and aptitudes. Students and counselors have the responsibility to become acquainted with each other and together set goals, both short and long range. Families should take part in the student’s decision-making process.

POINTS TO REMEMBER:
1. Your high school program should be developed according to your vision and interests.
2. Counselors will help you plan a program to reach your goals.
3. There are many types of post-high school education. All education is a preparation for the individual’s life and work.
4. Students are encouraged to discuss future plans with their parents since both the student and families together will be responsible for financing any post-high school education.

Since each student is scheduled individually, these goals may be reviewed, revised, and adjusted at least yearly or more often when necessary and possible. Course selection should be based on goals that have been carefully thought out.

Many people can and will offer you advice and suggestions. Always check your plans with your counselor. Counselors are available to assist students and families in making decisions about the future.
PLANNING A COLLEGE PREPARATORY HIGH SCHOOL PROGRAM

Planning a high school program for the college-bound student can be a confusing process for the student and parent. Students should begin to consult college catalogs in the ninth grade. Colleges and universities have their own requirements for entrance. The following is offered as a guide to help you plan a high school program for college admission.

1. Most four-year colleges require at least 16 academic units for admission.
2. An Academic Unit is a year of study in one of the following academic subjects: English, Social Studies, Mathematics, Science, and World Language.
3. Most colleges recommend the following high school units:
   - 4 years of English
   - 3 years of Social Studies
   - 3 years of Mathematics
   - 3 years of Science
   - 3 years of one World Language
   - 3 years of additional Academic Units (determined by specific college program)
4. Applicants are considered on an individual basis. Some colleges will accept courses in a specialized area such as music, business, and art as a high school unit. There are some colleges that will accept students with fewer academic units. College catalogs and references are available in the high school guidance offices and the main branch of the Hamilton Township Public Library.

PLANNING A VOCATIONAL/TECHNICAL/BUSINESS HIGH SCHOOL PROGRAM

Many students are planning to enter employment, the Armed Services, or attend a Vocational/Technical/Business School after graduation. Your high school program can help you obtain occupational training through a variety of cooperative work programs. Vocational school offerings and skill training courses are also available.

We urge you to select your high school courses carefully, consult with your counselor, teachers, and parents, and plan with a purpose in mind.
The Hamilton Township School District offers a four-year program for the student planning a career in art as well as those interested in art as a means of creative expression. Students should begin the program with Art Fundamentals; however, if the student feels that they are able to demonstrate ability beyond the intro level, they can elect to bypass Art Fundamentals and submit a portfolio for review. For more information contact the Supervisor of Fine and Performing Arts.

**ART FUNDAMENTALS (05151E5011)**
Grades 9-12 5 credits
No prerequisite
Students will learn and practice basic art concepts as well as produce original artwork. Students will discuss the artistic movements that have shaped the art world and the evolution of art forms, techniques, symbols, and themes.

**MIXED MEDIA (05154E5011)**
Grades 9-12 5 credits
Prerequisite: 70 percent or higher in Art Fundamentals OR portfolio review
This course is designed for the student who wants to take another art course but does not want to select an area of specialization. Students will explore various areas of arts and crafts on a general basis.

**DRAWING AND PAINTING I (05155E5012)**
Grades 9-12 5 credits
Prerequisite: 75 percent or higher in Art Fundamentals OR portfolio review
This course will provide an opportunity for students to explore various painting media and styles with an emphasis on design, drawing, and painting techniques. The students will use media such as pastel, tempera, watercolor, oil, and acrylic.

**DRAWING AND PAINTING II (05155E5022)**
Grades 10-12 5 credits
Prerequisite: 80 percent or higher in Drawing and Painting I
Students will understand the historical periods in which certain styles of art were developed and experiment within those styles; therefore, students enrolled in this course will be expected to develop an experimental attitude and personal style based upon multifarious subject matter media, concepts, and techniques.

**CERAMICS AND SCULPTURE (05158E5011)**
Grades 10-12 5 credits
Prerequisite: One year of art with a 70 percent or higher
Students will explore various techniques used in creating and designing ceramics and sculpture. The emphasis in this course is on design and craft skills. Ceramics work will include coil, slab, cast, and thrown pieces, as well as a study of various glazing and decoration techniques. Sculpture materials will include wood, metal, plaster, clay, plastics, and soft stone.

**COMMERCIAL DESIGN AND ILLUSTRATION (05162E5011)**
Grades 11-12 5 credits
Prerequisite: 2 years of art with an 80 percent or higher
This class enhances students’ skills in design, drawing and painting through an exploration of various techniques used in commercial design and illustration. Additionally, computer software can be utilized in design and drawing. The commercial design component comprises of projects in layout, lettering, packaging, and display. The illustration component emphasizes applications in specialized areas including fashion, technology, architecture, and science.
HONORS STUDIO ART (05197H5011)
Grades 11-12           5 credits
Prerequisite: 2 years of Art with an 80 percent or higher
This is an independent study course designed for students who are planning further study in art or a career in art. The emphasis of the course is on portfolio preparation. With guidance from the teacher, students will plan, research, develop, and execute projects in relation to their individual areas of interest. Students will also have the opportunity to utilize design software on the Windows operating system.

ADVANCED PLACEMENT STUDIO ART: DRAWING (05172X5011)
Grades 11-12           5 credits
Prerequisite: 2 years of art courses with an 80 percent or higher AND AP art teacher’s recommendation
This college course provides art students with an opportunity to earn college credits by passing a rigorous portfolio assessment offered in May. Students enrolled in this course choose one of the following program areas: two-dimensional design, drawing, or three-dimensional design. This course is approved through curriculum assessment by ETS. For more information, please refer to: http://www.collegeboard.com/student/testing/ap/sub_studioart.html. Students enrolled in this course are required to sit for the Advanced Placement exam.

ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN (05174X5011)
Grades 11-12           5 credits
Prerequisite: 2 years of art courses with an 80 percent or higher AND AP art teacher’s recommendation
This college course provides art students with an opportunity to earn college credits by passing a rigorous portfolio assessment offered in May. This course is approved through curriculum assessment by ETS. For more information, please refer to: http://www.collegeboard.com/student/testing/ap/sub_studioart.html. Students enrolled in this course are required to sit for the Advanced Placement exam.

ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN (05175X5011)
Grades 11-12           5 credits
Prerequisite: 2 years of art courses with an 80 percent or higher AND AP art teacher’s recommendation
This college course provides art students with an opportunity to earn college credits by passing a rigorous portfolio assessment offered in May. This course is approved through curriculum assessment by ETS. For more information, please refer to: https://apstudent.collegeboard.org/apcourse/ap-studio-art-3-d-design. Students enrolled in this course are required to sit for the Advanced Placement exam.
Technological developments and the rapid pace of changes in society have served to emphasize the importance of Business and Information Technology. Courses such as Computer Applications, Desktop Publishing, Internet Concepts/Web-Page Design, and Multimedia Presentations provide students with hands-on computer skills to match the current industry trends. Courses like Accounting, Personal Financial Literacy, Introduction to Business, Marketing, Business Administration, Business Law, and International Business and Economics give students an opportunity to explore the corporate and financial aspects of business, as well as lay a solid foundation for future studies in Business at the postsecondary level. The state of New Jersey requires 2.5 credits of Personal Financial Literacy.

**PERSONAL FINANCIAL LITERACY (22210E2511)**
Grades 9-12  2.5 credits
No prerequisite
This course delves into the mysteries of our economic system and how it relates to the student. The student will be given skills to make educated financial decisions and solid resources to build a stable financial future. Topics discussed include determining a goal for a financial future, benefits and net pay, checkbook management and budgeting, obtaining different types of loans, insurance decisions, taxation, planning for the future and more. This course meets the current state standards for Financial Literacy and is a practical life skill necessary for all those looking to live on their own.

**COMPUTER APPLICATIONS (10004E5011)**
Grades 9-12  5 credits
No prerequisite
It is so important for students to be able to apply technology and computer skills across the curriculum to meet the requirements of all of their teachers and programs, both during their high school career as well as for college preparation! In this course, students will work with the different Apps included in the Google Apps Suite. After taking this Google Suites course students will be able to leverage the different collaboration tools available in Google Apps Suite, which are geared towards making the communication process more effective and productive. Just a few of the many skills that will be taught include: text formatting, use of graphics, Internet applications, spreadsheet formulas, charts and graphs, creating slide presentations and animations, and more.

**ACCOUNTING ESSENTIALS (12104E2511)**
Grades 10-12  2.5 credits
No prerequisite
This is a semester course designed to provide each student with a fundamental understanding of the complete accounting cycle and how that cycle interacts with business operations. The student will complete activities included in the accounting cycle such as: journaling business transactions, posting to general ledger accounts, preparing worksheets, and closing out accounts in preparation for the next fiscal period. The student will also learn the appropriate procedures related to maintaining checking accounts including the preparation of checks, updating check registers, and preparing bank reconciliations. An orientation to automated accounting will allow the student to complete business transactions using the computer.

**CORPORATE ACCOUNTING (12103E2511)**
Grades 10-12  2.5 credits
Prerequisite: Accounting Essentials
This semester course is designed to provide the students with an in-depth knowledge of accounting for merchandising businesses organized as corporations. At the conclusion of this course, students will be proficient in the use of special journals, posting to the General and Subsidiary ledgers, payroll accounting, and the preparation of corporate financial statements. Additionally, students will reinforce the adjusting and closing process as it relates to merchandising businesses. Automated General Ledger problems and Microsoft Excel spreadsheet applications will be integrated throughout the semester.
**HONORS ACCOUNTING (12104H5011)**  
Grades 11-12 5 credits  
Recommendation: Students will be **encouraged** to have Accounting Essentials and Corporate Accounting as a prerequisite.  
This course is designed primarily for junior and senior students who plan to continue their education in the area of Accounting and/or Business Administration at the college level. The course is taught at an accelerated pace using a college-level textbook. The students will complete activities related to the accounting cycles of merchandising, manufacturing and service businesses formed as proprietorships, partnerships and corporate organizations. Automated accounting and Microsoft Excel will be integrated throughout the course.

**INTERNET CONCEPTS/WEB-PAGE DESIGN (10201E2511)**  
Grades 10-12 2.5 credits  
No prerequisite  
This is a semester course offered to all students who wish to become computer Internet literate. It gives students the opportunity to experience hands-on application of teacher-made projects and commercially prepared software. Students will become “net savvy” in the following broad Internet topics: web terminology, web browsers, E-mail/newsgroups, up/downloading, Boolean and natural language search methods as well as internet safety. In addition, students will design and create simple to complex Web Sites using *Microsoft FrontPage* and/or *Google Sites*.

**MULTIMEDIA PRESENTATIONS (12009E2511)**  
Grades 10-12 2.5 credits  
No prerequisite  
This is a semester course offered to all students. Students will develop public-speaking/presentation skills by learning to plan, organize, and develop effective presentations using a variety of media. Progression will be made from simple two-minute presentations using index cards and flip charts to longer presentations involving electronic media. Students will prepare and deliver fully functioning electronic presentations prepared with *Microsoft PowerPoint* and Google Slides.

**INTRODUCTION TO BUSINESS (12051E5011)**  
Grades 9-12 5 credits  
No prerequisite  
The Introduction to Business course will explore the American economic system and corporate organization and will survey an array of topics and concepts related to the fields of business. This course will introduce business concepts such as ownership, ethics, banking, finance, the role of government, consumerism, credit, investment, marketing, and management. Informational technology for Business will be utilized throughout the course.

**BUSINESS LAW (12054E2511)**  
Grades 10-12 2.5 credits  
No prerequisite  
Business Law provides an understanding of legal activities as they apply to students and their roles as wage earners, consumers, and citizens. The students will gain an appreciation of his/her rights and duties with regard to securing employment, purchasing an automobile and consumer merchandise, acquiring a home, selecting insurance, and protection of consumers (guarantees). Fundamental concepts of the American legal system are covered in addition to emphasis being placed on the concept of contract law and how it pertains to the student.

**BUSINESS ADMINISTRATION (12052E5011)**  
Grades 11-12 5 credits  
Recommendation: Students will be **encouraged** to have Introduction to Business and International Business and Economics as prerequisites.  
This course emphasizes business operations from the entrepreneurial and management perspective. All functions of business management are covered extensively, including the use of technology and communication. Students will run a business using a virtual business simulation and create a business plan that will allow them to obtain the necessary capital to fund their business venture and bring the world of business to the classroom. Students will also explore the
global dimension of business and possible career opportunities. This course is designed for students planning to complete an academic business program at college.

INTERNATIONAL BUSINESS AND ECONOMICS (12056E5011)
Grades 10-12 5 credits
Recommendation: Students will be encouraged to have Introduction to Business as a prerequisite.
This course provides students with an understanding of the global business environment. The focus of the course is the world of international business. Specific topics include business organizations, human resource management, information and production systems, consumer economics, global marketing, and financial management. This course will also prepare student members of DECA (Distributive Education Clubs of America) to compete in events for International Business and Economics. Students planning a four-year college program in business, economics, or government are encouraged to elect this course as a foundation for continued studies.

INTRODUCTION TO INVESTMENTS (12107E2511)
Grades 10-12 2.5 credits
No prerequisite
This course will introduce the concept of financial planning and management for life. Investing in stocks, mutual and retirement funds, and real estate will be discussed. Students will be introduced to credit and how credit ratings can be affected positively and negatively. They will learn effective strategies for staying debt free. Personal budgets and investment portfolios are developed as the student gains valuable knowledge for investing in their future. Students will implement investment strategies using an online reality stock market game.

MARKETING I - ESSENTIALS (12151E2512)
Grades 10-12 2.5 credits
No prerequisite
This semester course focuses on the essentials of marketing in business. Topics covered will include economics, business and international marketing, interpersonal/communication skills, and promotion (sales promotion, television/internet/print advertising, etc.). Students are encouraged to be active participants in the local DECA chapters.

MARKETING II - SPORTS AND ENTERTAINMENT (12163E2522)
Grades 10-12 2.5 credits
Prerequisite: Marketing I Essentials
This semester course is designed to teach the concepts of marketing and apply those concepts to sports and entertainment industries. The course will also highlight and expand on the nine functions of marketing. Major areas that will be covered are amateur and professional sports, television and movie industries, and concert and arena productions. Students are encouraged to be active participants in the local DECA chapter.

MARKETING III - WORK EXPERIENCE (12198E1511)
Grade 12 15 credits
Prerequisite: Marketing I Essentials AND Marketing II Sports and Entertainment
These programs provide the student with an opportunity to gain invaluable work experience in the area of the student’s career objective or job availability. Each student receives individualized attention from both the coordinator and job supervisor. Particular emphasis is placed upon the "Four A's": attendance, attitude, appearance, and ability. Instruction includes an in-depth study of topics including planning for a career (resume, interviews, attire, etc...), entrepreneurship (business ownership), and management. Each student receives individualized instruction related to the student’s work training station activities. Cooperative work experience is provided. Students are encouraged to be active participants in the local DECA chapter.

INTRODUCTION TO DESKTOP PUBLISHING (11152E2512)*
Grades 11-12 2.5 credits
No prerequisite
Learn the basics of desktop publishing using Adobe InDesign, Illustrator, and Photoshop. Find out how to create, modify,
and save document formats, illustrate, design, edit/revise and print publications. Discover how to enter and edit text and add graphics. Become skilled at importing and threading text. Find out how to prepare your document for printing and how to create an Acrobat PDF file from your InDesign document.

**ADVANCED DESKTOP PUBLISHING (11152E2522)***
Grades 11-12    2.5 credits
Prerequisite: Introduction to Desktop Publishing
Discover how to enhance your publications by working with layers and applying special effects to objects. Improved productivity of electronically produced newsletters, flyers, brochures, reports, advertising materials, and other publications are emphasized. Learn how to create and work with tables, define and use object styles to further stylize your objects and frames, created nested styles, add inline graphics, create custom shapes and add interactive elements such as hyperlinks, movies and sound. Find out how to create and apply custom gradients, convert type to outlines and apply advanced character and paragraph formatting.

**CAREER EXPLORATION (22151E2511)**
Grades 9-12    2.5 credits
No prerequisite
This semester course helps students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. Students will explore the multitude of career opportunities available to them upon graduation from high school. The course will also help the students develop resume writing, interview, and networking skills.

**TOMORROW’S TEACHERS (19151H5011) (19151E5011)**
Grades 11-12    5 credits
Prerequisite: Teacher/Counselor Recommendation (Supervisor approval for college credit option) AND an overall 3.0 GPA
Tomorrow’s Teachers is a study of the history, development, organization and practices of preschool, elementary and secondary education. This course seeks to provide high school students with insight into the nature of teaching, the problems of schooling, and the critical issues affecting the quality of education in America’s schools. Tomorrow’s Teachers is presented into four themes: Experiencing the Learner, Experiencing the Profession, Experiencing the Classroom, and Experiencing Education. This course includes a practicum requirement where students work under the direction of teachers in our local elementary and middle schools. It is recommended that students arrange for their own transportation.
*Through a specific college partnership, students have the option to take this course and also earn college credit. Students will be required to complete additional practicum hours as well as a Context for Learning Project. If interested, please see your child’s school counselor for more information.

**Suggested CTE Pathways**
Students who complete one of the Suggested CTE Pathways are provided the opportunity to take the NOCTI exam. Upon passing the exam, students will be eligible to receive college credits.

**Business Management and Administration:** Introduction to Business → International Business & Economics → Business Administration

**Finance:** Accounting Essentials → Corporate Accounting → Honors Accounting

**Marketing:** Marketing I Essentials → Marketing II Sports Entertainment Marketing → Marketing III Work Experience

*This course may be used to meet graduation requirements in Technology and/or Visual Performing Arts (see your child’s school counselor for more information).*
Reading, writing, listening, and speaking affect a pupil’s performance in all subject areas. Effective communication skills are also essential in the work place. Each pupil should select those English courses that will best prepare him or her to achieve educational and career goals.

**ENGLISH 9 (01001H5011) Honors, (01001E5011) A, (01001G5011) B**

Grade 9  
5 credits  
Prerequisite for 9 Honors: Students must have a minimum of a 90% in 8th grade English Language Arts or a minimum of 80% in 8th grade Enriched English Language Arts **AND** a teacher recommendation. Entrance criteria may also include other measures, including a placement essay and district benchmark/diagnostic scores.  
Prerequisite for 9A: It is suggested that students have a minimum of an 80% in 8th grade English Language Arts for placement in 9A.

This course provides instruction in all aspects of language skills, including reading, writing, speaking, and listening. Students explore a variety of literary genres, including short stories, novels, biographies, drama, essays, and poetry, as well as nonfiction and informational text. The writing process, vocabulary, grammar, and mechanics are infused within literary study and explored through direct instruction. This course provides an in-depth focus on expository writing as well as narrative and argument writing.

**ENGLISH 9B WITH APPLICATIONS (01001G5011L and 01009G5011L)**  
Grade 9 only  
10 credits (5 as graduation requirement and 5 as elective)  
Prerequisite: Placement will be determined based on an administrative review of middle school academic performance. This course prepares students to increase proficiency in foundational skills and meet the college and career-ready skills required by the NJSLs. Students will develop their ability to analyze both fiction and nonfiction reading selections and improve core literacy skills. Emphasis will be placed on active/close reading and the utilization of a variety of reading strategies. Core writing proficiencies will be refined through direct instruction in grammar, vocabulary, and writing conventions. Students enrolled in this course will have a double period (daily) of English instruction.

**ENGLISH 10 (01002H5011) Honors, (01002E5011) A, (01002G5011) B**

Grade 10  
5 credits  
Prerequisite for 10 Honors: Students must have a teacher recommendation **AND** either a minimum of a 90% in 9A or a minimum of an 80% in 9 Honors.

In this course, students explore a wide range of world literature representing a variety of cultures. Students will evaluate how authors utilize rhetorical devices and strategies and the effect of history, culture, and physical environment on literary works. Literary selections include novels, drama, poetry, short stories, essays, nonfiction, and informational texts. Research opportunities, vocabulary, grammar, and mechanics are infused within literary study and explored through direct instruction. This course provides an in-depth focus on expository, narrative, and argument writing.

**ENGLISH 11 (01003H5011) HONORS, (01003E5011) A, (01003G5011) B**

Grade 11  
5 credits  
Prerequisite for 11 Honors: Students must have a teacher recommendation **AND** either a minimum of a 90% in 10A or a minimum of an 80% in 10 Honors.

This course presents an in-depth focus of the elements of American literature spanning from the 1600’s to the 21st century. Students will explore a variety of literary genres, including novels, short stories, drama, and poetry, as well as primary sources and other informational texts. Research opportunities, vocabulary, grammar, and mechanics are infused within literary study and explored through direct instruction. This course provides an in-depth focus on expository, narrative, and argument writing.
ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (01005X5011)
Grade 11 5 credits
Prerequisite: Students must have a teacher recommendation AND a minimum of an 84% in English 10A or a minimum of 80% in English 10 Honors.

This course provides an opportunity for students to earn college credits by passing the AP English exam. Students will compose in a variety of modes and for a variety of purposes. The main focus of this course is expository prose and non-fiction. This course may satisfy the Grade 11 English requirement. Students enrolled in this course are required to sit for the Advanced Placement exam.

ENGLISH 12 (01004H5011) HONORS, (01004E5011) A, (01004G5011) B
Grade 12 5 credits
Prerequisite for 12 Honors: Students must have a teacher recommendation AND either a minimum of a 90% in 11A or a minimum of an 80% in 11 Honors.

This course presents an in-depth focus of the elements of British Literature, as well as an emphasis on college and career readiness. Literary selections include novels, drama, poetry, short stories, essays, nonfiction, and informational texts. Research opportunities, vocabulary, grammar, and mechanics are infused within literary study and explored through direct instruction. This course provides for a variety of writing opportunities.

ADVANCED PLACEMENT LITERATURE AND COMPOSITION (01006X5011)
Grade 12 5 credits
Prerequisite: Students must have a teacher recommendation AND a minimum of an 84% in English 11A, or a minimum of 80% in English 11 Honors, or demonstrated ability in 11AP.

This course provides an opportunity for students to earn college credits by passing the AP English exam. Students will study representative literary works from various genres and periods and will write critical analyses of literature. This course may satisfy the Grade 12 English requirement. Students enrolled in this course are required to sit for the Advanced Placement exam.

DUAL ENROLLMENT ENGLISH COMPOSITION 101 (01103H2511) AND ENGLISH COMPOSITION 102 (01053H2511)
Grade 12 5 High School Credits, 6 College Credits
Prerequisites: Students must have met MCCC’s minimum test score requirements on either the Accuplacer test, SAT, or ACT.
These two courses are Mercer County Community College classes in which students may earn both college as well as high school credit. A student enrolled in this course must be enrolled for the entire year. The focus of English 101 is to prepare students to write in all academic disciplines. Students will read a variety of non-fiction, strengthen their critical thinking skills through analyses of reading these selections, and develop textual support for essays that are 750-1,550 words in length. In English 102, the selection of literature includes more fiction. Students will write a formally documented research paper as well as a variety of essays that are lengthier than those produced in English 101. To adhere to the New Jersey Student Learning Standards, Shakespeare will be taught as part of this course. There is a $300 tuition for this full year course. Books and other materials will be provided by the District. This class will satisfy the Grade 12 English requirement.

CREATIVE WRITING (01104E2511)
Grades 11-12 2.5 credits
Prerequisite: Students must have a minimum of a 74% in most recent core English class.

This half-year elective is designed for the student who would like to develop his or her creative abilities and gain writing instruction and experience. The student will express his or her thoughts and feelings in lyrics, film scripts, poetry, and other forms of creative writing.
JOURNALISM (01156E2511)
Grades 11-12  2.5 credits
Prerequisite: Students must have a minimum of a 74% in most recent core English class.

This half-year elective provides students with an opportunity to enhance their communicative skills through an exploration of the various aspects of journalism, including writing, speaking, editing, and reporting. Students will analyze current publications, including electronic media, as they discuss the role of a journalist in today's society.

TELECOMMUNICATIONS I (01155E2512) AND TELECOMMUNICATIONS II (01155E2522)
Grades 10-12  2.5 credits each

Prerequisite for Telecommunications I: Students must have a minimum of 70% in most recent core English class. (Note: This course does not count toward NCAA eligibility).
Prerequisite for Telecommunications II: Successful completion of Telecommunications I

The Telecommunications courses (two half-year electives) involve students in a variety of media production. In Telecommunications I, students use and develop their English skills through script-writing and critical analysis of advertisements, television shows, and film. Students will build upon the regular English curriculum as they evaluate stereotypes, non-verbal clues, vocabulary, dialect, and stylistic choices. They will begin to work collaboratively to produce short videos. In Telecommunications II students will continue to write scripts and edit and produce a variety of videos.
ENGLISH AS A SECOND LANGUAGE

**ESL Lab (01008G5011)**
Grades 9-12 5 credits
Prerequisite: Based on administrative placement
This course is offered to high school English language learners new to the Hamilton Township School District with limited or interrupted formal education in their native language or no experience with English. The ESL Lab course is a one period class accompanied by another ESL class, which gives English learners additional support in reading, writing, speaking, and listening.

**ESL 1 Intro (01008G5014)**
Grades 9-12 5 credits
Prerequisite: WIDA Composite Score of 1.0-1.9
This course is offered to high school English language learners in the Hamilton Township School District whose English language proficiency is within a WIDA composite score of 1.0-1.9. The ESL 1 Intro course is a one period class which exposes students at the WIDA Entering Performance level to reading, writing, speaking, and listening.

**ESL 2 Beginner (01008G5024)**
Grades 9-12 5 credits
Prerequisite: ESL 1 Intro, ESL Lab or WIDA Composite Score of 2.0-2.9
This course is offered to high school English language learners in the Hamilton Township School District whose English language proficiency is within a WIDA composite score of 2.0-2.9. The ESL 2 Beginner course is a one period class which exposes students at the WIDA Beginning Performance level to reading, writing, speaking, and listening.

**ESL 3 Intermediate (01008G5034)**
Grades 9-12 5 credits
Prerequisite: ESL 2 Beginner or WIDA Composite Score of 3.0-3.9
This course is offered to high school English language learners in the Hamilton Township School District whose English language proficiency is within a WIDA composite score of 3.0-3.9. The ESL 3 Intermediate course is a one period class which exposes students at the WIDA Developing Performance level to reading, writing, speaking, and listening.

**ESL 4 Advanced (01008G5044)**
Grades 9-12 5 credits
Prerequisite: ESL 3 Intermediate or WIDA Composite Score of 4.0-4.4
This course is offered to high school English language learners in the Hamilton Township School District whose English language proficiency is within a WIDA composite score of 4.0-4.4. The ESL 4 Advanced course is a one period class which exposes students at the WIDA Expanding Performance level to reading, writing, speaking, and listening.

*Double ESL periods may also count towards additional graduation requirements. See your child’s school counselor for more information.*
The Family and Consumer Sciences courses are designed to help young people develop the life skills and personal skills needed to meet today’s challenges. Emphasis is placed on the thinking and decision-making skills which are needed to control and to live life to its fullest potential. Three levels of foods courses are offered. Career examination and discovery consistently takes place in all classes. Both male and female students are encouraged to enroll in all of our Family and Consumer Sciences courses.

**FOOD FOR FITNESS AND ENJOYMENT (16054E5011)**  
Grades 9-12  5 credits  
No prerequisite  
This introductory course is designed for all students who enjoy food preparation and who want to learn more about good nutrition. Students are introduced to: basic measuring, recipe understanding and preparation, cooking terminology, kitchen equipment, and small and large appliances. Sound nutrition is emphasized throughout the course. Students prepare many foods that focus on the major food groups. In addition, students experience a wide range of baking techniques through preparation of cookies and cakes, quick and yeast breads, and pastries.

**CREATIVE AND FOREIGN CUISINE (16056E5011)**  
Grades 10-12  5 credits  
Prerequisite: Food for Fitness and Enjoyment (16054E5011)  
Advanced cooking techniques are the focus in this course. The relationships between sound nutrition, purchasing, and meal planning and preparation will be emphasized. In addition, students explore the cooking, eating traditions, and lifestyles of the United States and other countries from around the world. Students are required to plan menus and prepare foods native to various parts of the world.

**INTRODUCTION TO CULINARY CAREERS (16051E5011)**  
Grades 10-12  5 credits  
Prerequisite: Creative and Foreign Cuisine (16056E5011)  
This course will develop the principles, skills and techniques necessary for hotel, restaurant and institution food preparation.

*Pending staff availability in each high school.*
Four years of Health and Physical Education are required. The Health and Physical Education program uses curriculum aligned with New Jersey Student Learning Standards, strands, and cumulative progress indicators for students to meet by grade 12.

**HEALTH (08051G2514) (08051G2524) (08051G2534) (08051G2544)**

Grades 9–12 2.5 credits
A required course each year.

Health will provide information on what it means to be healthy and provide skills to assists students in navigating a healthy lifestyle.

In each grade, all students have two marking periods of health education which provides the knowledge, skills, and practices that promote each student’s optimum physical, mental, emotional, and social development. Activities are student-centered and utilize multiple learning theories and models to support and promote health enhancing behaviors.

Major topics of study are as follows:

**Grade 9:** Basic Wellness; Body Systems; Sexuality and Responsibility; Peer Leadership; Hamilton DAP (Drug Awareness and Prevention)

**Grade 10:** Driver Education Theory, NJ State Driver’s Manual, Understanding the Automobile and the Highway Transportation System, Insurance, Traffic Laws, Buying/Selling/Insuring a Vehicle, and Substance Awareness; Hamilton DAP (Drug Awareness and Prevention)

**Grade 11:** Nutrition and Fitness; Human Development; CPR/AED/First Aid; Mental Health and Wellness; Hamilton DAP (Drug Awareness and Prevention)

**Grade 12:** Advance Wellness; Mental Health; Relationships and Sexuality; Date Rape/Assault Prevention, Organ Donation (NJ HERO ACT), Suicide Prevention, Managing Stress/Loss; DUI, Marriage Project; Hamilton DAP (Drug Awareness and Prevention)

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**Family Life and Human Sexuality**

Hamilton Township School District's Health and Physical Education curriculum is designed to teach students the information and skills they need to become health literate, to maintain and improve health, prevent disease, and reduce health-related risk behaviors. The curriculum focuses on standards that makes sure our students meet the state’s student learning objectives. The outline will provide the reader with a breakdown of the Standard 2.4 Human Relationships/Sexuality, curriculum resources, and topics covered at the elementary, middle school, and high school level. Students will learn the topics such as: the physical, social, and emotional aspects of human relationships and sexuality, and apply these concepts to support a healthy lifestyle. Also, the will learn about the understanding of the various aspects of human relationships and sexuality will assist the individual in making good choices about healthy living in the areas of relationships, sexuality, pregnancy, and childbirth.

**Topics covered in High School**

9th Grade: All the students in grade nine will cover lessons focusing on Sexually Transmitted Infections and HIV/AIDS. They will also cover Pregnancy Prevention.

11th Grade: All students in grade 11 will cover lessons focusing on Reproduction and Pregnancy; Childbirth and Parenting Newborns; and Human Development across the Lifespan.
12th Grade: All students in grade 12 will cover lessons focusing on Understanding Sexuality.

If a parent wants a child excused from family life education, what process should be used?

All parents/guardians should be notified of the excusal process. State law (N.J.S.A.18A:35-4.7) does not require active consent; however, every effort should be made to notify parents in advance of their right to have their child excused. Schools may use formal letters, information in parent-student handbooks, school Websites and other means to inform parents of this process. The law requires the parent/guardian to present a written, signed statement to the principal explaining how instruction in health, safety, family life education, or sex education is in conflict with his or her conscience or sincerely held moral or religious education beliefs.

For more information, please visit HTSD Family Life and Human Sexuality Curriculum Outline. If you have any further questions, please contact your child’s health teacher or the district’s curriculum supervisor.

**DRIVER EDUCATION (08152G0011) (Simulator/Behind the Wheel) 0 Credits**

Simulator and Behind the Wheel are elective courses that receive no credit. Through twelve hours of Simulation driving instruction and three hours of actual real life driving practice, Behind-The-Wheel, the students supplement and strengthen the material learned in the classroom. Simulator training is scheduled prior to BTW and is where defensive driving techniques and strategies are stressed and drilled. The Driver Analyzer portion of the program tests the students on their reaction distance as well as total stopping distance in various conditions like rain, snow, ice, grade levels, varying speeds and BAC levels. While on the Simulator, students are scored daily on a variety of DVD’s, building their safe driving skills. Some of the DVD titles include *Ins and Outs of Turns, Handling Weather Conditions, Detecting Critical Information, High Risk Situations and Crash Avoidance.*

Behind-The-Wheel is on the road driving instruction with a certified teacher in a dual controlled motor vehicle. The students will learn how to build confidence in driving through various real life environments and conditions. Following successful completion of simulation, students are then scheduled for On-the-Road driving with a certified instructor and a special learner’s permit.

**PHYSICAL EDUCATION (08001G2514) (08001G2524) (08001G2534) (08001G2544)**

Grades 9-12 2.5 credits

A required course each year.

Physical Education addresses movement, physical activity, and fitness. Students will learn how to work towards Physical Literacy. The will gain the ability to move with competence and confidence in a wide variety of physical activities in multiple environments that will benefit the healthy development of the whole person.

In each grade, all students have two marking periods of physical education which provides the knowledge, skills, concepts, and practices that promote each student’s optimum wellness. Activities incorporate the standards of movement and fitness by using a variety of movement education, cooperative activities, fitness skills and concepts, individual activities, and team activities. Instruction is designed to provide cognitive content and learning experiences that support a healthy, active lifestyle.

**INTRODUCTION TO SPORTS MEDICINE/ATHLETIC TRAINING (14062E5011)**

Grades 11-12 5 credits

An elective course.

Prerequisite: Recommendation of an “84” or better in the following courses: Health I, Health II, and Biology

Introduction to Sports Medicine is designed for the student who wants to learn the fundamentals of the profession of Athletic Training. The course will use a competency-based approach in both the classroom and a clinical setting. The student will learn the essentials in preventing, recognizing, managing, and rehabilitating injuries that result from physical activity. The student will also learn basic to intermediate first aid procedures as they pertain to athletes and sport.
The importance of mathematics has expanded with advancements in science and technology. It is a basic tool necessary in all areas of employment. The mathematics curriculum offers a variety of courses. Most of these courses are offered at different levels of academic difficulty. Course expectations have been updated to reflect the requirements set by the NJDOE regarding the New Jersey Student Learning Assessments. The Mathematics program is aligned to the New Jersey Student Learning Standards. There are also courses in computer science available for those students with an interest in computer programming.

**ALGEBRA IB (02052G5011)**
Grades 10-12                                   5 credits
Prerequisite: Review of previous mathematics performance, other diagnostic assessments AND Teacher/Guidance Recommendation.
Algebra I is the first course in the college preparatory program in mathematics. Students will model relationships between quantities, express those relationships using linear, quadratic, polynomial, exponential, and rational functions and analyze those relationships using graphs and algebraic properties. An introduction to descriptive statistics is included as well. Problem solving and use of mathematical practices are integrated throughout the course.

**ALGEBRA IB WITH APPLICATIONS (02052G5011L) and (02049B5011)**
Grade 9                                           10 credits (5 as graduation requirement and 5 as elective credit)
Prerequisite: Successful completion of Grade 8 Mathematics/Pre-Algebra, other diagnostic assessments AND Teacher Recommendation.
Algebra I is the first course in the college preparatory program in mathematics. The Algebra IB with Applications course offers students a double period of Algebra I to reinforce skills. Students will model relationships between quantities, express those relationships using linear, quadratic, polynomial, exponential, and rational functions and analyze those relationships using graphs and algebraic properties. An introduction to descriptive statistics is included as well. Problem solving and use of mathematical practices are integrated throughout the course. Students enrolled in this course will have a double period (daily) of Algebra instruction.

**ALGEBRA IA  (02052E5011)**
Grades 9-12                                5 credits
Prerequisite: Successful completion of Grade 8 Mathematics/Pre-Algebra, other diagnostic assessments AND Teacher Recommendation.
This course extends and deepens students’ understanding of algebraic concepts and skills. Students will model relationships between quantities, express those relationships using linear, quadratic, polynomial, exponential, and rational functions and analyze those relationships using graphs and algebraic properties. An introduction to descriptive statistics is included as well. Problem solving and use of mathematical practices are integrated throughout the course. Content will be enriched to include additional topics and more complex modeling/problem solving activities.

**GEOMETRY (02072H5011) HONORS, (02072E5011) A, (02072G5011) B**
Grades 9-12 5 credits
- Prerequisite Honors: Algebra IA (84% or higher) AND Teacher Recommendation
- Prerequisite A: Algebra IA (74% or higher) or Algebra IB (84% or higher)
- Prerequisite B: Completion of Algebra I
The study of geometry has many practical applications and is essential in engineering, construction, architecture, transportation, aeronautics, scientific research and many other fields. It will acquaint the student with valuable techniques of logical reasoning and provide a field for creative thinking. Geometric relationships are investigated and applied to the solution of problems. Topics included are: angles, triangles, polygons, lines, circles, surface area, volume, coordinate geometry, transformations, tessellations, geometric probability and trigonometric ratios. Students are introduced to flowcharts and two-column proofs. Honors content will be enriched, accelerated, will include additional topics and more complex modeling/problem solving activities, and is a prerequisite for Honors Precalculus.
BRIDGE TO ALGEBRA II (02055G5011)*
Grades 10-12  5 credits
Prerequisite: Successful completion of Algebra 1 and Geometry
This course is based on NJSLS standards and builds on previous Algebra 1 and Geometry courses to provide students with a mathematics foundation to be successful in an Algebra II course. Students will apply concepts from first year Algebra and Geometry to visualize, model, represent and solve real world problems and to prepare for enrollment in Algebra II.

ALGEBRA II (02056H5011) HONORS, (02056E5011) A, (02056G5011) B*
Grades 9-12  5 credits
• Prerequisite for Honors: Algebra IA, Honors Geometry or Geometry A (84% or higher) AND Teacher Recommendation
• Prerequisite for A: Algebra IA, Geometry A (84% or higher) or Algebra IB, Geometry B (90% or higher) AND Teacher Recommendation
• Prerequisite for B: Successful completion of Algebra I or Bridge to Algebra II AND Geometry AND Supervisor Recommendation
Building on the understanding of linear, quadratic and exponential functions from Algebra I, this course will extend function concepts to include polynomial, rational, radical, logarithmic, and trigonometric functions as well as probability. The standards in this course continue the work of modeling situations and solving equations. Honors content will be enriched, accelerated, will include additional topics and more complex modeling/problem solving activities, and is a prerequisite for Honors Pre-Calculus.

MATHEMATICS CONCEPTS AND APPLICATIONS 12 (02994B2512) (02994B2522)
Grade 12  2.5 credits
This course is required for students in the 12th grade who have not met any of the State of NJ graduation requirements for mathematics by the end of their 11th grade year. Mathematics Concepts and Applications 12 will prepare students to meet any one of the high school graduation requirements set by the State of New Jersey. Concepts and practice for PSAT, Armed Services Vocational Aptitude Battery (ASVAB) and/or Accuplacer will be the main focus of this course. If necessary, this course will provide the opportunity for students to complete a portfolio of Constructed Response Tasks to be submitted to the State for review. If a student has met the graduation requirements by the end of the second marking period, he/she will be able to exit the course. Note: This course will not meet NCAA Eligibility for the 2020/2021 school year.

MATHEMATICAL FUNCTIONS WITH APPLICATIONS (02109G5011)*
Grades 10-12  5 credits
Prerequisite: Successful completion of Algebra I, Geometry and Algebra II
This course follows the Geometry and Algebra 2 sequence and provides students with a fourth year of study in mathematics. Course content includes the study of relations and functions including polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions; their inverses, graphs, and in particular their applications. Students can take either Mathematical Functions with Applications or Precalculus.

STATISTICS/DISCRETE MATH (02201E5011)*
Grade 10-12  5 credits
Prerequisite: Honors Algebra II (74% or higher), Algebra IIA (80% or higher) or Algebra IIB (90% or higher)
This course is designed for the student who has successfully completed Algebra II. Students may elect to take this course before or after Precalculus. The first semester is dedicated to Statistics topics that include methods and measurements used in data gathering and provide real-world problems with real data sets. The second semester is comprised of Discrete Math topics, which include mathematical reasoning, combinatorial analysis, discrete structures, applications and modeling using logic, number theory, permutations, and combinations.
ADVANCED PLACEMENT STATISTICS (02203X5011)*
Grades 11 - 12  5 credits
Prerequisite: Statistics/Discrete Math or Precalculus, Honors Algebra II, Algebra IIA (84% or higher) OR Algebra IIB (90% or higher) AND Teacher Recommendation
Advanced Placement Statistics is an Advanced Placement course which is equivalent to a one-semester introductory, non-calculus based college course in Statistics. Topics include descriptive statistics, collection of data, normal distribution, basics of probability, inference, confidence intervals, tests of significance and regression. Significant written analysis of data is required on a regular basis. A strong background in Algebra II is required from the beginning of the course. In preparation for the College Board Advanced Placement Statistics Exam, students will be required to synthesize and apply lesson concepts to new applications and problem-solving situations. Students enrolled in this course are required to sit for the Advanced Placement exam.

PRECALCULUS (02110H5011) HONORS, (02110E5011) A*
Grades 11-12  5 credits
- Prerequisite for Honors: Geometry Honors or Algebra II Honors (84% or higher), or Geometry A or Algebra II A (90% or higher) AND Teacher Recommendation
- Prerequisite for A: Algebra II A and Geometry A (84% or higher) or Algebra IIB and Geometry B (90% or higher) AND Teacher/Supervisor Recommendation
A solid background in Algebra and Geometry is essential for success in this course. The following topics will be taught: graphing functions and relations, polynomial equations, trigonometry, exponential and logarithmic functions, series and sequences, and conics. A graphing calculator will be used extensively throughout this course. Honors content will be enriched, accelerated and will include additional topics and more complex modeling/problem solving activities.

HONORS CALCULUS (02121H5011)*
Grade 11-12  5 credits
Prerequisite: Successful completion of Algebra I, Geometry, Algebra II, Precalculus (84% or higher) AND Teacher Recommendation
The study of Calculus involves a high level of abstract thinking. Topics include the theory of limits, explicit and implicit differentiation of algebraic and trigonometric functions, the first and second fundamental theorems of integral calculus and the applications associated with these topics.

ADVANCED PLACEMENT CALCULUS AB (02124X5011)*
Grade 11-12  5 credits
Prerequisite: Honors Precalculus (80% or higher) AND Teacher Recommendation or Precalculus (90% or higher) AND Teacher/Supervisor Recommendation
A rigorous and fast-paced course in differential and integral calculus. This college-level course stresses elementary functions and analytic geometry as well as the concepts and applications of differential and integral calculus. Students enrolled in this course are required to sit for the Advanced Placement exam.

ADVANCED PLACEMENT CALCULUS BC (02125X5011)*
Grade 11-12  5 credits
Prerequisite: Honors Calculus (80% or higher) or completion of Advanced Placement Calculus AB AND Teacher Recommendation
This college-level course stresses concepts, methods, and applications of calculus. It uses the topics of Calculus AB as a base and moves into polar/vector functions, slope fields, Euler’s method and sequences and series. Students enrolled in this course are required to sit for the Advanced Placement exam.

COMPUTER SCIENCE A (10152E5011)
Grades 9-12  5 credits
Prerequisite: Algebra IB (90% or higher) or Algebra IA (80% or higher)
This course will provide an introduction to the computer field including the development of computers, the basic
concepts of a computer system, and uses of computers in today's world. This course consists of writing, debugging, and running programs which solve specific word problems. Students will have the experience of operating a computer system using a current computer language. Programs will be written which require students to apply the concepts of assignments, decisions, loops, arrays, matrices, subroutines, sorting routines, and creating, accessing and updating files. Structured programming techniques will be stressed to promote well-written programs.

**ADVANCED PLACEMENT COMPUTER SCIENCE A (10157X5011)***

Grades 10-12 5 credits

Prerequisite: Computer Science A or AP Computer Science Principles (80% or higher) AND Teacher Recommendation

This college level course introduces students to the study of programming methodology and procedural abstraction in the Java programming language. It encompasses the collection of technical skills and scientific methodologies one needs to create high-quality computer-based solutions to real problems. The primary purpose is to provide students with a conceptual background in computer science and programming techniques. It is designed for students who desire to learn how to write programs that solve specific problems in various subjects, including mathematics, science and business. AP Computer Science A requires students to possess: 1) familiarity with mathematical notation at an Algebra II level; 2) experience in problem solving; 3) an appreciation of the need to structure and develop given topics in a logical manner; and 4) competence in written communication. It prepares students to take the Advanced Placement Computer Science Level A examination through which they may receive college credit at many colleges and universities. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

**ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES (10160X5011)**

Grades: 10-12 5 credits

Prerequisite: Algebra IB (80% or higher) or Algebra IA (74% or higher), Computer Science A (74% or higher), AP Computer Science is preferred but not required AND Teacher Recommendation

AP Computer Science Principles provides students from a wide range of backgrounds the opportunity to understand and participate in the dramatic changes to our lives brought about by computing. Students will experience an inspiring survey of computer science, to learn to think like a computer scientist, and to consider how computational thinking can enhance their eventual fields of study. Additionally, the magic behind many of the devices and applications that students use every day will be demystified. Students will create a base of information and skills that they will use in their adult lives in areas such as intelligent systems, data collection and privacy, and the infrastructure of the Internet. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

*Course meets the requirements and counts for one of the three credit years required for mathematics.*
Mathematics

Suggestions:
- Students who are planning on attending four year colleges are encouraged to take four years of high school math, and should plan to complete up to Pre-calculus at a minimum in high school.
- Any student planning a career in a STEM field should plan to complete Calculus in high school.
The Hamilton Township School District provides a variety of study in music that includes vocal, instrumental, and orchestral performance. Please note that some courses require the recommendation of the music teacher in the building. For more information, please contact the Supervisor of Fine and Performing Arts.

**CONCERT CHOIR I-IV (05110E5014) (05110E5024) (05110E5034) (05110E5044)**
Grades 9-12 5 credits
No prerequisite
There is no prerequisite for Concert Choir I. Subsequent study in Concert Choir is dependent upon successful completion of the first course and recommendation of the building’s vocal teacher. Students will learn the correct usage of the singing and speaking voice, engage in a progressive study of good song literature and appreciate the art of singing from the perspective of the listener and the performer. As the students progress through the sequence of courses, they will engage in extensive work in breath control, production of vocal sounds, sight-reading, interval training and performance skills. In the Concert Choir IV class, students will explore a survey of choral literature that is a sampling of music from the past five centuries.

**SELECT CHOIR I-IV (05111E5014) (05111E5024) (05111E5034) (05111E5044)**
Grades 9-12 5 credits
Prerequisite: The students will be placed in Select Choir based upon the recommendation of the vocal teacher in the building.
The Select Choir course sequence emphasizes showmanship skills as students enrolled in this course will receive many performance opportunities. As the student progresses through this sequence of courses, he or she will engage in ensemble singing, explore a wide range of styles, and practice more challenging musical selections than what is offered in Concert Choir. In Select Choir III and IV, students will develop leadership qualities as they have opportunities to conduct, accompany, and choreograph performances, depending upon the music chosen for that year.

**BEGINNERS ORCHESTRA I-IV (05106E5014) (05106E5024) (05106E5034) (05106E5044)**
Grades 9-12 5 credits
No prerequisite
Each course is for students who would like to begin to study a specific string instrument. Students will learn fundamental skills individually or in a small class. The teacher will reinforce skills specific to the individual student in his or her mastery of the instrument.

**BAND I-IV (05102E5014) (05102E5024) (05102E5034) (05102E5044)**
Grades 9-12 5 credits
Prerequisite: Instrumental Training or Recommendation of the Building’s Music Teacher
Students will apply the basic skills and concepts acquired from previous studies in music to group situations with an emphasis on sectional skills, musical interaction among sections, split-second decision making and effective communications. The students will perform in concert band, and have the opportunity to perform in marching band and jazz ensembles, dependent upon the availability and skills of the teaching staff at each high school.

**HONORS BAND I-III (05102H5013) (05102H5023) (05102H5033)**
Grades 10-12 5 credits
Prerequisite: One Year of Band AND Recommendation of District Band teachers based on performance review
Students taking this course are provided with an extensive study of music, applying comprehensive skills and concepts acquired from previous studies in music to group situations with an emphasis on sectional skills, musical interaction among sections, split-second decision making and effective communications. A number of public performances will serve as a culmination of daily rehearsal and musical goals. The students will also have the opportunity to perform in marching band and jazz ensembles, dependent upon the availability and skills of the teaching staff at each high school.

*Students are not permitted to take Honors Band as 9th graders.*
ORCHESTRA I-IV (05104E5014) (05104E5024) (05104E5034) (05104E5044)
Grades 9-12 5 credits
Prerequisite: Instrumental Training or Recommendation of the Building’s Music Teacher
Students will apply the basic skills and concepts acquired from previous studies in music to group situations with an emphasis on sectional skills, musical interaction among sections, split-second decision making and effective communications. The students will perform in string ensemble, district orchestra, chamber groups, etc., based upon the availability and skills of the teaching staff at each high school.

PIANO LABORATORY I (05107E5012)
Grades 9-12 5 credits
No prerequisite
This is a comprehensive course for the beginning student of music. No prior keyboard experience is required for this course. Students will learn basic techniques such as scales and chords. By the end of the course, the students will be able to harmonize simple melodies and perform simple, popular tunes.

PIANO LABORATORY II (05107E5022)
Grades 9-12 5 credits
Prerequisite: An average of 75 or higher in Piano Lab I or recommendation of the building’s music teacher.
This course is for intermediate piano students who want to continue their studies on this instrument. Students will perform a greater selection of music than what was practiced in Piano Lab I.

HARMONY I (05113E2512)
Grades 9-12 2.5 credits
Prerequisite: Instrumental or Vocal Training
Students will strengthen their knowledge base of music fundamentals including music elements, key signatures and scales, time signatures and rhythms, clefs and transpositions, ear training and sight-singing. An introduction to keyboard harmony and a study of basic diatonic harmony are included.

HARMONY II (05113E2522)
Grades 9-12 2.5 credits
Prerequisite: Completion of Harmony I with an average of 80 or higher or by music teacher recommendation.
A focus upon an understanding of basic techniques of vocal and instrumental composition and orchestration is developed in this course. Students enrolled in this course will develop a deeper understanding of diatonic harmony and engage in original composition projects that encompass various styles and forms.

ADVANCED PLACEMENT MUSIC THEORY (05114X5011)
Grades 10-12 5 credits
Prerequisite: Completion of Harmony I and II with an average of 80 or higher or by music teacher recommendation.
The AP Music theory course is designed to develop a student’s ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1600 -1900), materials and processes found in other styles and genres are also studied. Advanced Placement Music Theory provides an excellent foundation for the further study of music in college and the advanced Placement Music Theory Exam. Students enrolled in this course are required to sit for the Advanced Placement exam.

DEVELOPMENT OF MUSIC I (05116E2512)
Grades 9-12 2.5 credits
No prerequisite
In Development of Music students will explore the origins of music as an art form and study its development throughout history. They will explore genres such as Medieval, Baroque, Classical, Romantic, 21st Century, Jazz, Rock, Modern Pop music and Musical Theater. In addition, they will study composers and artists who made this music. Students will also
learn about how music is created studying instrument families and how technology is used to create music.

**DEVELOPMENT OF MUSIC II (05116E2522)**
Grades 9-12 2.5 credits
Prerequisite: An average of 75 percent or higher in Development of Music I
Building upon the foundation of Development of Music I, students will conduct in-depth studies and analyses of selected works from contrasting musical periods. Compositional techniques, scoring readings, stylistically tendencies and musical form is the emphasis of this course. Students will also evaluate how notable composers and musical innovations contributed to various musical styles.

**JAZZ IMPROVISATION (05105E2511)**
Grades 9-12 2.5 credits
No prerequisite
Students will have the opportunity for more consistent instruction in the components of creating music. They will compose longer pieces and accompaniments and may be able to imitate various styles when creating music. Students will improvise varied answers to given chord progressions as well as improvise melodies and rhythms using matching styles and forms.

**INTRODUCTION TO MUSIC IN FILM AND VIDEO (05149E5011)**
Grades 9-12 5 Credits
No Prerequisite
Students will explore the theory and process of how music combines with film and video. They will learn the incredible power of music and its effect on tone, emotion, and narrative in cinematic themes. Students will examine how music can define a scene's rhythm and style, and how it can bring unity to shots and scenes. Students will have the opportunity to critique and determine the goals and intentions to defining what type of music serves the project best.
To be a citizen in today’s society, a strong understanding of science and its impact on our lives is essential. To be informed citizens in an ever changing world, students will need scientific skills and information to make wise choices for a sustainable future. All science courses support students in taking ownership for their learning as the students engage in the three-dimensions of the New Jersey Student Learning Standards for Science (NJSLS-S). The three dimensions of science learning are described below:

- **Crosscutting Concepts** will identify the phenomenon of science in everyday life, which will build student interest in the world around them, as well as demonstrate to students the connectedness of the world.
- **Disciplinary Core Ideas** are the content which will be integration of ideas in a developmental progression, focused on a limited number of core ideas both within and across disciplines, in order to deepen understanding of scientific phenomenon.
- **Scientific Practices and Engineering Design** are experiences for high school students to “undertake more complex engineering design projects related to major global, national, or local issues” (NRC, 2012, p. 71).

The State of New Jersey requires all students complete at least three years of science instruction for graduation. Students must take Biology and two more years of lab-based science. The recommended sequence for students is shown in the chart below. For students considering attending four-year colleges it is strongly recommended they take four years of science, including at least one AP course.

**Please consider these requirements when making Science Course selections:**

- **Mathematics prerequisites** are listed below, where appropriate. The importance of mathematics should not be underestimated when considering science courses.
- Please refer to the Course Sequence for Science for the expected flow of science courses.

**ENVIRONMENTAL SCIENCE (03003G5011) B, (03003E5011) A**

Grade 9 5 credits

Prerequisites: Environmental Science B: grade of 69 or lower in Grade 8 Science
Environmental Science A: grade of 70 or higher in Grade 8 Science

Minimum Math Prerequisite: None

Environmental Science enables students to develop an understanding of natural and man-made environments and environmental problems the world faces. Students explore environmental science concepts through an inquiry-based approach, and engage in evidence-based decision making in real world contexts. Students will apply science through a hands-on approach, driven by questions such as, “What is the universe, and what is Earth’s place in it?”, “How and why is Earth constantly changing?” and “How do Earth’s surface processes and human activities affect each other?” Disciplinary core ideas addressed include: Earth materials and systems, plate tectonics and large-scale system interactions, the roles of water in Earth’s surface processes, weather and climate, natural resources, natural hazards, human impact on Earth systems, and global climate change. Students will identify the complex and significant interdependencies between humans and the rest of Earth’s systems through the impacts of natural hazards, dependencies on natural resources, and the significant environmental impacts of human activities. Engineering and technology figure prominently here, as students use mathematical thinking and the analysis of geoscience data to examine and construct solutions to the many challenges facing long-term human sustainability on Earth. Students develop models and explanations for their thinking, and engage with major global issues to develop analytical and strategic thinking. Students will engage in science practices including defining problems, and developing solutions.

**BIOLOGY (03051G5011) B, (03051E5011) A, (03051H5011) HONORS**

Grades 9-12 5 Credits

Minimum Math Prerequisites:

- Biology B: completion of Algebra 1
- Biology A: concurrent enrollment in Geometry A
- Biology H: concurrent enrollment in Geometry H, teacher recommendation
The core content of this course is focused on the use of life science principles as powerful conceptual tools to make sense of the complexity, diversity and interconnectedness of life on earth. Students engage in laboratory and authentic learning experiences that encourage the application of biological knowledge to make decisions and solve problems. This course places an emphasis on the following Disciplinary Core Ideas:

- Structure and Function,
- Inheritance and Variation of Traits,
- Matter and Energy in Organisms and Ecosystems,
- Interdependent Relationships in Ecosystems,
- Natural Selection and Evolution.

Students will demonstrate knowledge through questioning the phenomenon found in the world. Mathematical computation and reasoning, as well as extensive informational readings, research and presentation, will allow students to analyze scientific biological phenomena and be asked to provide evidence for their thinking. The expectations and workload in the honors section of this course are high, and will require that a significant amount of work be accomplished outside the confines of the class period.

**CHEMISTRY (03101G5011) B, (03101E5011) A, (03101H5011) HONORS**

Grades 10-12 5 credits

Minimum Math Prerequisites:
- Chemistry B: completion of Geometry.
- Chemistry A: concurrent enrollment in Algebra 2A
- Chemistry H: concurrent enrollment in Algebra 2H, teacher recommendation

This course will focus on the nature and behavior of matter. Students will utilize mathematical skills in problem solving and laboratory experiences. Hands-on, minds-on experiences will develop their understanding in five major units including the topics of:

- Thermochemistry,
- Atomic Structure
- Nuclear Chemistry,
- Periodicity,
- Bonding and Chemical Reactions.

Within each of these units, students will be expected to demonstrate proficiency in developing and using models, planning and conducting investigations, communicating scientific and technical information; and using these practices to demonstrate understanding of the core ideas. The honors section of this course uses the same approach but includes more depth, a faster pace, and more intricate mathematical problems. There may be additional coverage of content due to the faster pace.

**PHYSICS (03151E5011) A, (03151H5011) HONORS**

Grades 11-12 5 credits

Minimum Math Prerequisites:
- Physics A: concurrent enrollment in Algebra 2A
- Physics H: concurrent enrollment in Algebra 2H, teacher recommendation

The focus of this course will include the major content of an introductory physics course, including motion and energy, wave motion, sound and light, electricity and magnetism, gravity and celestial properties, and forces. Students will be expected to be proficient in Algebra and Geometry in order to solve both theoretical and physical problems, and engineering ideas and practices will be examined throughout the course to provide a practical application of specific physics concepts, theories, and laws.

The honors section of this course requires strong mathematical skills and is designed to meet the needs of the highly-motivated student with great interest in science and academics as the depth of the honors course will be rigorous. Students completing this course will have the background necessary for an introductory level college class or AP Physics I & II.
**AP ENVIRONMENTAL SCIENCE (03207X5011)**
Grades 11-12 5 credits
Prerequisites: Completion of Biology A and Chemistry A with a grade of 94% or higher
Completion of Biology H and Chemistry H with a grade of 84% or higher
This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze natural and man-made environmental issues, to evaluate the risks and costs associated with these problems, and to examine alternate solutions to the challenges confronting society. The topics covered include earth systems: populations, communities and ecosystems; energy flow; natural resources; environmental changes; environmental economics and policy; and choices for the future. The course is designed to be the equivalent of a one-semester introductory college course and provides excellent preparation for the Advanced Placement Exam in Environmental Science. *Students enrolled in this course are required to sit for the Advanced Placement Exam.*

**AP BIOLOGY (03056X1011)**
Grades 11-12 10 credits
Prerequisites: Completion of Biology A and Chemistry A with a grade of 94% or higher
Completion of Biology H and Chemistry H with a grade of 84% or higher
This is a second-year biology course taught in a college format. Instruction takes place in a double block every day affording students the opportunity for advanced laboratory investigations. The AP Biology course is designed to enable students to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses. Emphasis is placed on science practice as a way to coordinate knowledge and skills in order to accomplish a goal or task. This course is aligned to the 2012 College Board curriculum and is centered on the underlying concept of evolution as the driver behind diversity and the unity of life. This is a demanding course for highly motivated students. The course is designed to be the equivalent of a two-semester college introductory biology course usually taken by science majors and provides excellent preparation for the Advanced Placement Exam and the SAT Subject Test in Biology. *Students enrolled in this course are required to sit for the Advanced Placement Exam.*

**AP CHEMISTRY (03106X1011)**
Grades 11-12 10 credits
Prerequisites: Completion of Chemistry A with a grade of 94% or higher
Completion of Chemistry H with a grade of 84% or higher
Minimum Math Prerequisites: students should be concurrently enrolled in Precalculus A
This is a second-year chemistry course taught in a college format. Instruction takes place in a double block every day affording students the opportunity for advanced laboratory investigations. The course emphasizes the theoretical aspects of chemistry including topics such as atomic theory and structure, chemical bonding, in-depth analysis of states of matter, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, advanced descriptive chemistry, laboratory work, and chemical calculations. Laboratory experiments will require careful observation, recording of data, calculations, data analysis, and interpretation of results. Emphasis will be on experimental procedures and quantitative and qualitative analysis. The course is designed to be the equivalent of a two-semester college general chemistry course usually taken by science majors and provides excellent preparation for the Advanced Placement Exam in Chemistry and the SAT Subject Test in Chemistry. Students enrolled in this course are required to sit for the Advanced Placement Exam.

**AP PHYSICS I & II (03166X1011)**
Grades 11-12 10 credits
Prerequisites: Completion of Physics A with a grade of 94% or higher
Completion of Physics H with a grade of 84% or higher
Minimum Math Prerequisites: students should be concurrently enrolled in Precalculus A or Calculus
AP Physics I & II is a full-year course that is the equivalent of a two semester introductory college course in algebra-based physics. Students cultivate their understanding of physics through inquiry-based investigations as they explore topics including:
  - Kinematics & Dynamics;
ANATOMY AND PHYSIOLOGY (03053E5011)
Grades 11-12   5 credits
Prerequisites:   Completion of Biology B with a grade of 94% or higher or completion of Biology A/H with a grade of 84% or higher. Completion or concurrent enrollment in Chemistry.
This course provides an in-depth, explorative study of the structure and functions of the human body, and examines the progression of human complexity from the molecular level to the system level. Students will use models and preserved specimens, as well as a variety of extensive investigations and dissections throughout the course. It is expected that all students who elect to take this class will participate fully in the dissections, and no alternative assessments will be provided. Dissection techniques and identification of exposed organs will make up a portion of a student’s grade. Students and their parent/guardian MUST sign a Dissection Agreement form prior to beginning this course. Please see the course instructor for the necessary dissection forms. This course is recommended for students interested in pursuing careers in the health sciences. This course does not meet the 3-year science requirement.

MARINE BIOLOGY (03005E5011)
Grades 10-12   5 credits
Prerequisites: Completion of Biology (all levels) with a grade of 84% or higher.
Marine Biology enables students to learn about the physical structure and chemistry of the ocean, the diversity of ocean life, marine ecology, and the scope and impact of human interactions with the oceans.
Topics covered in this course may include:
• Ocean geology and the characteristics of the ocean floor;
• The influence of waves, currents and tides;
• The chemistry of water in marine environments, including estuaries.
• Ecological relationships between marine organisms (porifera, cnidaria, mollusca, annelida, arthropoda, echinodermata, and chordata)
• Trophic structure and nutrient cycles
• Human impact on marine environments
There are a significant number of dissections throughout this course and it is expected that all students who elect to take this class will participate fully in the dissections, and no alternative assessments will be provided. Dissection techniques and identification of structures will make up a portion of a student’s grade. Students and their parent/guardian MUST sign a Dissection Agreement form prior to beginning this course. Please see the course instructor for the necessary dissection forms. This course does not meet the 3-year science requirement.

INTRODUCTION TO ORGANIC AND BIOCHEMISTRY (03103E2511)
Grades 11-12   2.5 credits
Prerequisites: Completion of Chemistry H with a grade of 84% or higher.
Completion or concurrent enrollment in AP Chemistry is preferred.
This course is designed to provide a fundamental overview of organic chemistry to students interested in pursuing a career in the sciences. Upon successful completion of this class, students will understand the relationship between structure and function of molecules, the major classes of reactions, reaction energetics and mechanisms, synthesis of organic compounds, and how to determine structure via various spectroscopic techniques. Several themes are prevalent in each unit of study: nomenclature, chemical and physical properties, structures, mechanisms, common molecules, and the role of organic molecules in living systems. Laboratory sessions introduce basic and safe organic chemistry skills and techniques as well as advanced research techniques. This course does not meet the 3-year science requirement.

GENETICS & BIOTECHNOLOGY (03059E5011)
Grades 11-12 5 credits
Prerequisites: Completion of Biology and Chemistry A with a grade of 94% or higher; Completion of Biology and Chemistry Honors with a grade of 84% or higher.
This course is designed for students who have a strong interest in modern biology and its applications to the fields of medicine and agriculture. Students explore how DNA works and how scientists can alter DNA for a variety of purposes. Topics include:

- Microbiology
- Applications of DNA technology including
  - Genetic engineering
  - GMO’s and food processing,
  - Forensics (DNA fingerprinting, crime scene investigations, paternity testing)
- Medical Biotechnology
  - Immunology & Blood typing
  - ELISA testing
  - Western blots
- Bioethics
  - The use of commercial DNA testing in forensics
  - CRISPR technology
  - GMO patents
  - HeLa cells and breast cancer research

This course places a strong emphasis on laboratory activities to reinforce academic concepts and principles. Students will have access to advanced lab equipment and activities, including PCR technology, and CRISPR. Case studies will also be used to demonstrate how biotechnology has changed crime scene investigations and made forensic science accessible to all.

NEUROSCIENCE AND SOCIETY (03063E2511)
Grades 11-12 2.5 credits
Prerequisites: Successful completion of Biology and Chemistry
Neuroscience is relevant to many of the societal institutions that affect our lives, including business, law, education, medicine, and the military. This course offers an in-depth focus on neuroscience through the lens of societal issues relevant to older teenagers. Areas of study may include:

- Brain Anatomy
- Neurons and Neurotransmitters
- Drugs and Addiction
- Learning, Memory and Learning Disorders
- Mental Illness
- Law & Criminology (the neuroscience of ethical behavior)
- Brain function & mental wellbeing

This course does not meet the 3-year science requirement.
SCIENCE
Course Sequence

Grade 9
- Environmental Science
- Biology A
- Biology H

Grade 10
- Biology A or Biology B
- Chemistry A or Chemistry H

Grade 11
- Chemistry A or Chemistry B
- Physics A or Physics H
- Physics H

Grade 12
- Physics A or Physics H or AP courses or Science Electives
- AP courses or Science Electives
Social Studies education provides learners with the knowledge, skills and perspectives needed to become active, informed citizens and contributing members of global, state and local communities in the digital age.

**REQUIRED COURSES**

The State of New Jersey requires three years of Social Studies, one year of World History and Geography and two years of United States History for high school graduation.

**U. S. HISTORY I (04101G5012) B, (04101E5012) A, (04101H5012) HONORS**

Grades 9-12 5 credits
Prerequisite for US I Honors: 90% or higher in 8th grade Social Studies AND a teacher recommendation.
This course is a study of the political, social and economic changes that have occurred in the United States from the Civil War to the 1950’s. Infused into this course is African American history, multicultural studies, New Jersey history, local history, career education and global studies as they relate to United States history. This course is required of all high school students and is a continuation of American history that began in fifth grade and continued in eighth grade. “Honors” level is for students with a deep interest and understanding of the subject. This accelerated course will require a significant amount of work to be completed outside of the confines of the classroom.

**U. S. HISTORY II (04101G5022) B, (04101E5022) A, (04101H5022) HONORS**

Grades 10-12 5 credits
Prerequisite: U. S. History I
Prerequisite for US II Honors: 85% or higher in U.S. History I Honors or 90% or higher in U.S. History IA AND teacher recommendation
This course is the continued study of political, social and economic changes that have occurred in the United States from World War II to the present time. African American history, multicultural studies, New Jersey history, local history and global studies pertinent to this time period are infused into this course. Students will also examine public opinion and the citizen’s role in the governmental and economic processes. Current domestic and foreign problems are also studied. United States History II is required of all high school students and is a continuation of the content presented in United States History I. “Honors” level is for students with a deep interest and understanding of the subject. This accelerated course will require a significant amount of work to be completed outside of the confines of the classroom.

**WORLD HISTORY AND GEOGRAPHY (04052G5011) B, (04052E5011) A, (04052H5011) HONORS**

Grades 11-12 5 credits
Prerequisite for World History and Geography Honors: 85% or higher in U.S. History II Honors or 90% or higher in U.S. History IA AND teacher recommendation
This course is designed to give students both a historical outlook and a contemporary view of the world. Content includes historical events, ideas, and forces that have shaped and are shaping the world. Political, geographic, economic, social and cultural events are emphasized. World History and Geography develops an understanding of the chronological sequence of events and of the important role played by individual personalities in shaping the course of world history. This course is required of all high school students. “Honors” level is for students with a deep interest and understanding of the subject. This accelerated course will require a significant amount of work to be completed outside of the confines of the classroom.

**AMERICAN LAW I (04162E2512)**

Grades 9-12 2.5 credits
No prerequisite
This course familiarizes the student with the laws that will be of practical use to them in their everyday lives. Topics such as the criminal justice system, different types of crimes, individual rights, and how to obtain an attorney will be discussed.
**AMERICAN LAW II (04162E2522)**
Grades 9-12 2.5 credits
No prerequisite
This course will discuss law as it applies to the family, the consumer, housing, individual rights, and discrimination. American Law I is strongly recommended.

**ANCIENT HISTORY (04058E2511)**
Grades 10-12 2.5 credits
No prerequisite
Ancient history is a survey of ancient civilizations from the early river valleys to the fall of the Roman Empire. The course provides basic preparation for many of the other social sciences. The formulation of the basis for western thought and culture will be discussed.

**MEDIEVAL HISTORY (04059E2511)**
Grades 10-12 2.5 credits
No prerequisite
Medieval history serves as the bridge from the end of the ancient period, with the fall of the Roman Empire, to the modern period of history and development of the modern nation state. This course continues the study of people from the time of the Barbarians to the Age of Discovery.

**MULTICULTURAL STUDIES (04107E2511)**
Grades 11-12 2.5 credits
This course is designed to analyze the United States as a multicultural nation. Students will investigate who they are and what has shaped their current identity. This course will rely heavily on classroom discussion and will examine a variety of mature topics. There will be an emphasis on exploring the perspectives of various groups and developing a better understanding of how race, culture, and ethnic identity have contributed to shape the world we live in today. Students will strengthen their awareness of the diverse ethnicities, which have contributed to American history and our contemporary American culture.

**SOCIOLOGY (04258E2511)**
Grades 10-12 2.5 credits
No prerequisite
This course is designed to help the student develop an awareness of the complexities of human behavior, understand the relationship of the socialization process to one’s own self-concept, reinforce the values of our society, challenge the student to examine social behavior, and understand other cultures and appreciate their contributions to society.

**PSYCHOLOGY (04254E2511)**
Grades 10-12 2.5 credits
No prerequisite
This course is designed to prepare students to be aware of the changes in the world and to deal with the complexity of human growth and behavior through an introduction to the field of psychology. Topics covered in this course are: applications and contradictions, a review of scientific method, an identification of research studies, heredity versus environment, knowledge of stages of growth and development, a comprehension of psychological theories, and their validity in other areas of knowledge.

**HONORS GALRE (04199H5011)**
Grades 11-12 5 credits
Prerequisite: Teacher Recommendation
This course is designed to provide students with in-depth knowledge and first-hand experiences in the political process on national, state, and local levels. Honors GALRE is suggested for those students who may be considering a career in politics, law, government services, and other related fields or may desire the opportunity to get involved in community affairs. Students are admitted through a selection process and teacher recommendation.
**VOLUNTEER INTERNSHIP PROGRAM (VIP) (22998E5011) (22998E2511)**

Grade 12 2.5 credits per semester

Prerequisite: Teacher Recommendation

VIP provides actual experience and involvement through volunteer work in business, professional, social, and governmental agencies. The course is open to seniors who would like some realistic experience in the career areas of their choice or are contemplating further education and are undecided about their area of study. The student reports to his/her selected agency according to a prescribed time schedule. On selected days, the student will report for a building level or district seminar. Daily logs, agency reports, and a project or research paper are required. Students provide their own transportation. Pupils are scheduled individually. Students attend school for three or more classes before reporting to their VIP assignment. Students are assigned through an application/selection process and teacher recommendation.

**AP U.S. HISTORY (04104X5011)**

Grades 10-12 5 credits

Prerequisite: 85% or higher in U.S. History I Honors or 90% or higher in U.S. History IA AND teacher recommendation

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States History. The program prepares students for intermediate college courses by making demands upon them equivalent to those made by full-year introductory college courses. Beginning with Discovery and Settlement of the New World, and ending with present-day America, students study various topics throughout the course of United States History. This course satisfies the United States History II requirement. Students enrolled in this course are required to sit for the Advanced Placement exam.

**AP UNITED STATES GOVERNMENT AND POLITICS (04157X5011)**

Grade 11-12 5 credits

Prerequisite: 85% or higher in an Honors history course or 90% or higher in “A” level history course AND teacher recommendation

The AP United States Government and Politics course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute United States political reality. Students enrolled in this course are required to sit for the Advanced Placement exam.

**AP EUROPEAN HISTORY (04056X5011)**

Grades 10-12 5 credits

Prerequisite: 85% or higher in an Honors history course or 90% or higher in “A” level history course AND teacher recommendation

The study of European history since 1450 introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic understanding of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principle themes in modern European History, (b) the ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. Students enrolled in this course are required to sit for the Advanced Placement exam.

**AP PSYCHOLOGY (04256X5011)**

Grade 12 5 credits

Prerequisite: 85% or higher in an Honors history course or 90% or higher in “A” level history course AND teacher recommendation

Students will be encouraged to have taken Psychology as a prerequisite.

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ
psychological research methods, including ethical considerations, as they use the scientific method. Analyze bias, evaluate claims and evidence, and effectively communicate ideas. *Students enrolled in this course are required to sit for the Advanced Placement exam.*
As the world becomes more interconnected, the influence and importance of technology has never been greater. Students are encouraged to identify and solve real-life problems creatively. Courses in the Technology Education department allow for students to explore many post-secondary career experiences as well as the importance of technology and engineering skills in their lives. Basic background information and working experience can be gained for later advanced training in vocational schools, technical schools or at the college level. Many entry level skills can be obtained by following the three and four year programs offered in Technology Education areas.

**TECHNOLOGY, ENGINEERING & SOCIAL RESPONSIBILITY (21003E5012)**
Grades 9-12 5 credits
No prerequisite
This course serves as an introduction to engineering and technological studies, with a special emphasis on the interrelationships of STEM disciplines and 21st Century Knowledge and Skills in the pursuit of solving real-world problems within a context of social responsibility themes. Students will learn about safety while working with tools, machines, materials and processes as they develop their engineering and technological literacy through lessons and hands-on activities.

**SUSTAINABLE ENGINEERING AND DESIGN (21003E5022)**
Grades 10-12 5 credits
Prerequisite: Technology, Engineering & Social Responsibility
Building upon what was learned in Technology, Engineering & Social Responsibility, students will conduct a deeper study of each area of the designed world through corresponding units. Each unit will cover multiple technological products and systems used to solve various engineering problems in the past, present and future, providing a context for exploring major engineering disciplines, other STEM-related occupations, and the higher-education pathways leading to them. In each unit, students will encounter new tools, materials, machines and STEM-related knowledge that they must use to identify and analyze both natural and human-made problems, evaluate risks and examine alternative solutions for resolving or preventing them with social responsibility in mind.

**EXPLORING CAREERS AND ISSUES IN SOCIALLY RESPONSIBLE ENGINEERING (21054E5012)**
Grades 11-12 5 credits
Prerequisites: Technology, Engineering and Social Responsibility AND Sustainable Engineering and Design
This course engages students in dynamic and complicated thematic design challenges and studies related to specific existing and emerging fields of engineering. Students take on the roles of professionals in high demand careers such as Systems, Medical and Ocean Engineering. Working independently and in groups responsible for designing and fabricating sustainable solutions, students will demonstrate global awareness, practice ethical decision making, work within economic constraints and consider policy and regulations.

**HONORS INNOVATION AND DESIGN (21054H5011)**
Grade 12 5 credits
Prerequisites: Technology, Engineering and Social Responsibility, Sustainable Engineering and Design, AND Exploring Careers and Issues in Socially Responsible Engineering
This senior design capstone course is “student-driven” and structured around a previously introduced theme that the student is interested in exploring in greater depth. It is an opportunity for students to engage in a full-year design process, culminating in the fabrication of a physical product or system that solves a unique problem, demonstrating the student’s ability to apply knowledge, skills and abilities honed throughout the program of study. The student must work closely with the teacher to develop and research themes and problems of interest.

**INTRODUCTION TO ELECTRONICS AND ROBOTICS (21009E5012)**
Grades 9-12 5 credits
Co-requisite Algebra IB (02052G5011) or higher
This course will provide the fundamentals of electricity and electrical design. Students will apply their knowledge to plan, assemble, and test a series of electrically based projects.
ELECTRONICS AND ROBOTICS II (2109E5022)*
Grades 11-12 5 credits
Prerequisite: Introduction to Electronics and Robotics
Recommendation: Algebra IA (02052E5011) or Algebra IB (02052G5011)
This course will expand on the principles and concepts learned in Introduction to Electronics and Robotics. More complex circuits and automation will be explored.

INTRODUCTION TO GRAPHIC ARTS (11154E5011)*
Grades 9-12 5 credits
No prerequisite
This course is designed to focus on the techniques of communications, primarily associated with the printed word, illustrations and photography. They will learn how to apply the basics of the design process in a visual manner. They will develop a portfolio of their work, including projects involving the processes of digital printing, silk screen and photography.

PHOTO TECHNOLOGY I (11053E5011)*
Grades 10-12 5 credits
No prerequisite
This course is an in-depth study of black and white photography as it relates to digital printing and graphic communication. Photographic practices including camera operation, darkroom procedures, developing, and enlarging. The second semester will focus on digital photography, including advanced camera settings, exposure, composition, lighting, alternative camera angles, depth of field and image editing software. Digital photography includes experiences with Adobe Photoshop.

PHOTO TECHNOLOGY II (11054E5011)*
Grades 11-12 5 credits
Prerequisite: Photo Technology I
This is an advanced course in Digital photography. Students will explore technical, artistic, and commercial aspects of photography. The course will include advanced digital camera operations and creative digital darkroom techniques with the use of Lightroom and Photoshop software. Class time will enable students to work on independent and cooperative explorations. Students will prepare a portfolio of work to exhibit and at the completion of the course.

ENGINEERING DRAWING AND CAD (21102E5011)*
Grades 9-12 5 credits
No prerequisite
The course teaches the student to visualize items in three dimensions and then sketch them in three views. The student will learn three major skills: Orthographic Projection - three dimensional drawings which include Dimensioning and Lettering; Geometric Construction - development of geometric shapes such as circles, triangles, octagons, hexagons, and pentagons; and Pictorial Drawings - the drawing of an object so that more than one side can be seen. The student will develop and strengthen his/her ability to complete and read industrial drawings.

ADVANCED ENGINEERING DRAWING AND CAD (21107E5011)*
Grades 10-12 5 credits
Prerequisite: Engineering Drawing and CAD
This course will build upon the concepts taught in the first Engineering Drawing and CAD course. The student will be introduced to three additional areas of drawing: Auxiliary Views - drawing views of an inclined or isometric angled object; Sectional Drawing - drawing of an object as if part of it were cut away to expose the insides; and Machine Drawing - the use of advanced Orthographic Projection to describe industrial machine parts.

ARCHITECTURAL DRAWING AND CAD (21103E5012)*
Grades 11-12 5 credits
Prerequisite: Advanced Engineering Drawing and CAD
Architecture Design is the drawing of various construction plans such as plot, floor, and elevation. The plot plan shows the position of the house on a building lot, while the floor and elevation plans show the actual shape and size of the
house.

**ADVANCED ARCHITECTURAL DRAWING AND TECHNICAL CAD (21103E5022)**
Grade 12 5 credits
Prerequisite: Architectural Drawing and CAD or teacher recommendation
This course reviews all advanced areas of Architectural Drawing, including model building, land development and 3-D representation of designed projects. For the final project, students can develop exploratory designs of his/her choice in an in-depth study through individualized instruction. The course is designed to give the student entry-level job skills in industrial drafting or prepare the student for majors in engineering or architectural fields in college.

**MATERIALS PROCESSING I (13052E5012)**
Grades 9-12 5 credits
No prerequisite
This course combines basic objectives of Woodworking, Metalworking and other materials in order to provide a broad base of knowledge and a variety of hands-on experience in the area of technology.

**MATERIALS PROCESSING II (13052E5022)**
Grades 10-12 5 credits
Prerequisite: Materials Processing I
This course expands on the concepts covered in Materials Processing I, providing the students with a broader base of knowledge and more hands-on experience. Students will apply technology design objectives to a series of projects utilizing a variety of materials.

**MATERIALS PROCESSING III (13052H5012)**
Grades 11-12 5 Credits
Prerequisites: Materials Processing II **AND** Recommendation of Teacher
This course will continue to build on the skills learned in Materials Processing I and II, and develop new skills as set by the student and teacher. Advanced woodworking techniques and equipment will be introduced. Students in this course need to be self-motivated, and are responsible for the materials and designs of their projects.

**MATERIALS PROCESSING IV (13052H5022)**
Grade 12 5 Credits
Prerequisites: Materials Processing III **AND** Recommendation of Teacher
This course is designed for the senior who has developed a passion for woodworking. Goals and projects will be coordinated by the student and the instructor, with the student producing a capstone project. The student may be asked to assist the instructor with students taking Materials Processing I or II. The student must be self-directed, and is responsible for the materials and designs of his/her project.

*This course may be used to meet graduation requirements in Technology and/or Visual Performing Arts (see your child’s school counselor for further information).*
DRAMA: INTRODUCTION TO THEATRE ARTS (05052E5011)
Grades 9-12 5 Credits
No Prerequisite
This course will provide students with the opportunities to experience various aspects of theatre history, production, and performance. Students will learn to appreciate, discuss, analyze and evaluate musical theater that reflects goals consistent with and deeply rooted in the New Jersey Core Curriculum. This course exemplifies cross-curricular learning. Students will study theatre history to understand the progression and creation of modern theatre. Technical aspects of staging will be introduced and explored. Emphasis will be placed on lighting, sound, costumes, and props. Students will work on developing their performance skills through improvisation, character development, script writing, and staging. Students will explore character background as well as how to develop an emotional viewpoint for their characters.
The student enrolled in a World Language learns to communicate through the development of the four skills: listening, speaking, reading, and writing. In addition to learning basic skills, the student will gain information about the civilization, culture, and customs of the people whose language he or she is studying.

The World Languages offered are: four years of German, Latin, Italian and French, five years of Spanish. The fifth year, Advanced Placement Program, is a college level language course.

**FRENCH I (24102E5011)**
Grades 9-12 5 credits
No prerequisite
The initial objective, the understanding and speaking of the language, is attained by means of oral conversations and exercises based on authentic material. Grammar is taught through a variety of speaking drills and writing practices. Reading and writing are introduced as the course progresses. Students are exposed to the culture of the French-speaking world.

**FRENCH II (24103E5011)**
Grades 9-12 5 credits
Prerequisite: 70% or higher in French I
French II continues to stress the ability to understand and to speak the language and to learn the culture of the people. More time and emphasis are devoted to reading and writing skills.

**FRENCH III (24104E5011)**
Grades 10-12 5 credits
Prerequisite: 70% or higher in French II and teacher recommendation
French III increases the emphasis on reading and writing the language without sacrificing speaking ability and comprehension. This is done by means of more intense cultural readings and discussion of these readings in the language.

**FRENCH IV HONORS (24105H5011)**
Grades 11-12 5 credits
Prerequisite: 80% or higher in French III and teacher recommendation
This is an advanced course in French for those students who have completed French III. Equal emphasis is placed on all four aspects of language learning and on the culture of the French-speaking world.

**ADVANCED PLACEMENT FRENCH (24114X5011)**
Grade 12 5 credits
Prerequisite: Teacher recommendation and an 84% or higher in French IV
This Advanced Placement Course is offered to students who have completed French IV. The purpose of this course is to develop the student’s self-confidence, knowledge of the French Language, and self-assurance using it in conversation. The students will also be able to comprehend native French speakers from a variety of Francophone cultures; as well as becoming aware of current events in French speaking countries. Critical thinking and analytic skills will also be developed. *Students enrolled in this course are required to sit for the Advanced Placement exam.*
GERMAN I (24252E5011)
Grades 9-12 5 credits
No prerequisite
The student learns to communicate in German through the use of basic conversations based upon authentic materials. Grammar is taught by means of a teacher presentation followed by oral and written structure drills for reinforcement. Students are exposed to the culture of the German-speaking world.

GERMAN II (24253E5011)
Grades 10-12 5 credits
Prerequisite: 70% or higher in German I
German II continues to stress the listening and speaking skills of the language while placing greater emphasis upon reading and writing. Students continue the study of German culture.

GERMAN III (24254E5011)
Grades 11-12 5 credits
Prerequisite: 70% or higher in German II and teacher recommendation
German III gives the student the opportunity to read and discuss more difficult material in German. More attention is given to writing skills and structure. Both classical and modern literatures are introduced. Students receive more exposure to German culture through graded readings.

GERMAN IV HONORS (24255H5011)
Grade 12 5 credits
Prerequisite: 80% or higher in German III and teacher recommendation
This course is for the student who has completed German III. Emphasis is placed upon speaking, reading, and writing. Students will read more difficult material for discussion in German. The detailed history and geography of German-speaking nations are studied.

ADVANCED PLACEMENT GERMAN (24264X5011)
Grade 12 5 credits
Prerequisite: Teacher recommendation and an 84% or higher in Italian IV
Designed to parallel third-year college-level courses in German Language, AP German Language courses build upon prior knowledge and develop students' ability to understand spoken German in various conversational situations, to express themselves (in German) accurately and fluently, and to have a command of the structure of the German language. Students will develop a vocabulary large enough to understand literature, magazine/newspaper articles, films and television productions, and so on. Students enrolled in this course are required to sit for the Advanced Placement exam.

ITALIAN I (24152E5011)
Grades 9-12 5 credits
No prerequisite
The student will communicate in Italian through the use of basic phrases and conversations based upon authentic materials. Grammar and structure are stressed as well as basic writing and reading skills. Cultural materials are also provided.

ITALIAN II (24153E5011)
Grades 10-12 5 credits
Prerequisite: 70% or higher in Italian I
Italian Level II will expand on the grammar introduced in Italian I and provide students with a more advanced introduction to the Italian language and an opportunity to develop a basic cultural competency. Communication skills will be emphasized and students participating in this course will also learn other facets of language study including vocabulary, grammar, idiomatic expressions, proverbs, culture, and geography.
ITALIAN III (24154E5011)
Grades 11-12 5 credits
Prerequisite: 70% or higher in Italian II and teacher recommendation
Italian III increases the acquisition of the basic skills of speaking, listening, reading, and writing through application in the study of literature, conversations, drama and culture. Advanced levels of grammar are studied and former grammar skills are strengthened. Oral and listening skills are enhanced with emphasis on increased control of vocabulary, allowing students to understand, converse, interact, and make presentations in Italian at a more complex level.

ITALIAN IV HONORS (24155H5011)
Grade 12 5 credits
Prerequisite: 80% or higher in Italian III and teacher recommendation
The course expands the grammar introduced in Italian III and provides students with a more advanced introduction to the Italian language. The course focuses on intensive practice of the language skills of reading, writing, speaking, and listening along with literary analysis, a thorough grammar review, and cultural awareness. Students will be able to comprehend the Italian spoken by native speakers. Students will also develop writing skills which will be proficient enough to be recognized and comprehended by native speakers.

ADVANCED PLACEMENT ITALIAN (24164X5011)
Grade 12 5 credits
Prerequisite: Teacher recommendation and an 84% or higher in Italian IV
Designed by the College Board to parallel third-year college-level courses in Italian language, AP Italian Language and Culture courses build upon prior knowledge and develop students’ ability to express ideas, exchange opinions, and present information in Italian, both orally and in writing. These courses also help students in understanding and interpreting written and spoken Italian. In addition, students explore the culture of Italian-speaking people in historical and contemporary contexts. Students enrolled in this course are required to sit for the Advanced Placement exam.

LATIN I (24342E5011)
Grades 9-12 5 credits
No prerequisite
The basics of the Latin language are taught through vocabulary, structure, translation, and in the study of derivatives, prefixes and suffixes. Reading selections furnish a basis for the comparison of ancient and modern life.

LATIN II (24343E5011)
Grades 10-12 5 credits
Prerequisite: 70% or higher in Latin I
Through a study of structure, vocabulary, and translation, this course increases the understanding of those elements in English which are related to Latin and lays a foundation for learning other world languages. It creates an understanding of those aspects of Roman and Greek life which have most profoundly influenced our civilization through readings in mythology, culture, and biographies, including literature of Julius Caesar.

LATIN III (24344E5011)
Grades 11-12 5 credits
Prerequisite: 70% or higher in Latin II and teacher recommendation
The student increases his/her vocabulary through the translation of Cicero's Orations and accompanying prose composition. The student will gain a historical and cultural background to help him/her understand modern problems. Emphasis is placed on structure and oratory. Through the reading of the letters of Pliny, the student gains an understanding of Roman life.

LATIN IV HONORS (24345H5011)
Grade 12 5 credits
Prerequisite: 80% or higher in Latin III and teacher recommendation
Latin IV is a course in poetry. Vocabulary and poetic structure are stressed in the translation of Virgil's works. The
student acquires knowledge of cultural and historical background through the study of Virgil's contemporaries and modern authors. Mythology, geography, and history are included as they relate to the Aeneid.

**CONVERSATIONAL SPANISH (24059G5011)**
Grade 9  
5 credits  
No prerequisite: Administrative Placement  
(This course will not count toward NCAA eligibility)

Conversational Spanish is an introductory course for students having difficulty with language acquisition. The course will focus on creating and responding to basic phrases, describing people, places and things, and interacting in limited social settings and basic situations. Basic communication skills of listening, speaking, reading and writing will be emphasized throughout the course. Students will also develop an awareness of culture, and examine the interrelationships between the Spanish language and the various cultures of the Spanish-speaking people. The course will be personalized to meet the diverse needs of the students enrolled.

**Information on High School Spanish Courses**

At the end of eighth grade, students will have an option to complete a placement assessment to determine appropriate level placement.

**SPANISH I (24052E5011)**
Grades 9-12  
5 credits  
No prerequisite

The communicative approach is used in the learning of Spanish. The student will learn to speak and understand Spanish through conversations and exercises based upon authentic material. Grammar is taught through a variety of speaking, reading, and writing drills. The student is exposed to Hispanic culture.

**SPANISH II (24053E5011)**
Grades 9-12  
5 credits  
Prerequisite: 70% or higher in Spanish I

Spanish II will build upon skills developed in Spanish I, preparing students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Spanish II will introduce the relationships among the products, practices, and perspectives of Spanish-speaking cultures.

**SPANISH III (24054E5011)**
Grades 10-12  
5 credits  
Prerequisite: 70% or higher in Spanish II and teacher recommendation

The students enrolled in Spanish III will enhance cognitive demands of communication resulting in a growth of students' reasoning skills. An enhanced cultural experience as well as a context for interaction with native Spanish speakers also expands the language experience. In Spanish III, the student reads and discusses more difficult material in the language. Attention is given to the literature, history, and geography of Spain. Listening comprehension and writing skills are stressed.

**SPANISH IV HONORS (24055H5011)**
Grades 11-12  
5 credits  
Prerequisite: 80% or higher in Spanish III and teacher recommendation

Students will utilize higher level thinking skills by applying their previous knowledge of grammar and vocabulary. Students will also analyze various Spanish and Latin American literary selections by creating original scenarios, mini stories, adaptations and dramatizations. Students will critique classroom presentations. Students will learn about the
Spanish and Latin American culture through the incorporation of readings from literary selections. Spanish IV is the culmination of the study of all major grammatical components with special emphasis on the present and past subjunctive.

**ADVANCED PLACEMENT SPANISH (24064X5011)**

Grade 12  
5 credits

Prerequisite: Teacher recommendation and an 84% or higher in Spanish IV

The course will be conducted almost exclusively in Spanish and the students will be expected to practice the target language consistently with the teacher and their classmates. Students will complete a thorough review of grammar and verb conjugations, expand their communication skills through daily classroom interactions, increase and refine their writing skills, increase comprehension skills of written and aural material, and will gain additional knowledge of the cultures of the Spanish–speaking world through the study of history, art, music, and current events. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

Hamilton Township School District is a proud state participant in the Seal of Biliteracy

**What is the Seal of Biliteracy**

On January 19, 2016 NJ signed into law the State Seal of Biliteracy. This is a designation from the New Jersey Department of Education (NJDOE) identifying graduating high school students who are able to demonstrate proficiency in English in addition to one or more languages. This designation aims to encourage students to study a second language to a high level of proficiency, and to provide employers and universities with a method of identifying people with language and biliteracy skills. Universities may also recognize and award academic credit to applicants seeking admission. Students in their senior year may demonstrate proficiency in English by meeting English language arts graduation requirements (or attaining the appropriate cut score on the ACCESS for ELLs assessment in the case of ELLs), and demonstrate a linguistic proficiency level of at least INTERMEDIATE-MID (IM) according to the ACTFL Proficiency Guidelines (or demonstrate a level deemed equivalent to IM for languages such as American Sign Language or Native American languages).

**Why seek the Seal of Biliteracy:**

- Encourage students to study languages;
- Certify attainment of biliteracy;
- Provide employers with a method of identifying people with language and biliteracy skills;
- Provide universities with a method to recognize and award academic credit to applicants seeking admission;
- Prepare students with 21st century skills;
- Recognize and promote second language instruction in public schools;
- Strengthen intergroup relationships, affirm the value of diversity, and honor the multiple cultures and language of a community.

*For more information about the Seal of Biliteracy, please contact your child’s World Language teacher.*
MERCER COUNTY TECHNICAL SCHOOLS’ MISSION

Mercer County Technical Schools’ mission is to produce a community of inspired, compassionate learners who are knowledgeable, skilled and possess the competencies that will prepare them for success in an ever-changing technological world. We provide our students with educational opportunities in business and industry while emphasizing a culture of personal attention that focuses on the individual learner. Our goal is to foster a school climate that emphasizes the importance of the teaching-learning process and provide youth and adults the opportunities to maximize their potential, to reflect and offer solutions to challenges posed by society.

Shared-time High School Programs

Career and technical education programs prepare students for college and careers.

WHEN SHOULD I ATTEND?

Most high school students apply for shared-time programs in 10th grade. First-year students typically attend in 11th grade from 8:00AM to 10:45AM and return to their home school for lunch and academic classes. Second-year students typically attend in 12th grade from 11:45AM to 2:30PM after completing their academics and lunch at the home school. However, some programs are offered for one year so schedules may vary. Individual class schedules for shared-time students are completed by home school counselors ensuring that each student has all the necessary requirements for high school graduation.

ADDITIONAL ACADEMIC OFFERINGS

Students may enroll in one pull-out class at Mercer County Technical Schools each year. The class will take place during the time that the career and technical education program is offered. Students enrolled in Cosmetology, Health Occupations and Career Prep are ineligible due to other program requirements. Pull-out classes include Financial Literacy, History, Language Arts, Mathematics, Physical Education/Health and Science. Requests must be made by a School counselor or Child Study Team Member. Pull-out course offerings vary by center and may change from year to year.

CO-CURRICULAR ACTIVITIES

Students have the opportunity to demonstrate what they’ve learned by participating in co-curricular student organizations such as DECA (an International Association of Marketing Students), HOSA (Health Occupations Students of America), FFA (Future Farmers of America) and SkillsUSA.
GRADUATION CREDIT

Mercer County Technical Schools is accredited by the State of New Jersey and Middle States Commission on Secondary Schools. Each shared-time program provides students with twenty high school credits per year. Upon successful completion of the program, each student receives a technical proficiency certificate. For those programs qualifying for board certification and/or a state license, testing is administered and certification and licenses are issued.

TRANSPORTATION

Home school districts provide transportation for students who attend Mercer County Technical Schools.

Shared-time Programs

Career and technical education programs allow students to gain hands-on experience exploring a career that interests them. For additional information on any course offering go to http://www.mcts.edu/menus/program-descriptions

ARCHITECTURAL/ENGINEERING DESIGN Assunpink Center (21003E12) (21003E22)

AUTOMOTIVE COLLISION TECHNOLOGY Arthur R. Sypek Center (20116E112) (20116E22)

AUTOMOTIVE TECHNOLOGY Arthur R. Sypek Center & Hopewell Valley Regional High School (20104E12) (20104E22)

AUTOMOTIVE TECHNOLOGY FUNDAMENTALS Arthur R. Sypek Center (20106E12) (20106E22)

AVIATION Assunpink Center

BAKING AND DINING SERVICES Arthur R. Sypek Center (16051E12) (16051E22)

BUILDING MAINTENANCE TRADES Arthur R. Sypek Center (17009E12) (17009E22)

BUSINESS TECHNOLOGY Arthur R. Sypek Center (12001E12) (12001E22)

CARPENTRY Assunpink Center (17003E12) (17003E22)

COSMETOLOGY Arthur R. Sypek Center & Assunpink Center (19101E12) (19101E22)

CRIMINALISTICS & CRIMINAL SCIENCE Arthur R. Sypek Center (15051E11)

CULINARY ARTS Arthur R. Sypek Center (16052E12) (16052E22)

DIESEL TECHNOLOGY Assunpink Center (20107E12) (20107E22)

ELECTRICAL CONSTRUCTION Assunpink Center (17102E12) (17102E22)

GRAPHIC ARTS TECHNOLOGY Arthur R. Sypek Center (11155E12) (11155E22)

HEALTH OCCUPATIONS Assunpink Center (14002E11)

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION TECHNOLOGY Assunpink Center (17056E12) (17056E22)

HORTICULTURE AND TURF CARE MANAGEMENT Arthur R. Sypek Center (18054E12) (18054E22)

MEDICAL OFFICE ASSISTANT Health Careers Center

PRE-NURSING Health Careers Center

Please contact your child’s school counselor for further assistance.
Career Prep is a unique opportunity for 12th graders to begin their college education during high school. Students are enrolled, tuition-free, in up to 13 credit hours of courses at Mercer County Community College from 11:45AM to 2:30PM. Participants will receive transferable college credits and sending school equivalent credits toward high school graduation requirements. Students are responsible for purchasing books, required lab materials and/or uniforms. To apply applicants should have a recommended 3.25 GPA and an excellent attendance record. Available programs, as well as specific courses within each program are subject to change or revision each year. Some programs may be scheduled outside of the normal afternoon session hours. Students must agree to follow the college calendar and attend class, even if sending school transportation is not provided. Career Prep courses (where students earn college credits) will receive an honors designation on the high school transcript.

Career Prep Program Descriptions

**ADVERTISING AND DESIGN - 12 CREDITS**
The Advertising and Design program prepares students for positions as designers, graphic communicators, and assistant art directors. These positions are most often found in advertising agencies, design firms, corporate communication departments, interactive multimedia studios, and the television industry. It also prepares students for advanced study in graphic design, advertising design, web design, or visual communication.

- ART 102 Basic Drawing – 3 CREDITS
- ART 105 Two Dimensional Design – 3 CREDITS
- ADV 110 Typography I: Basics of Graphic Design – 3 CREDITS
- DMA 105 Introduction to Computer Art – 3 CREDITS

**BUSINESS STUDIES – 12 CREDITS**
This program is designed for the student who plans to earn a business-related degree at a four-year college or university.

- IST 101 – Computer Concepts with Applications – 3 CREDITS
- CMN 111 – Speech: Human Communication – 3 CREDITS
- ECO 103 – Basic Economics – 3 CREDITS
- BUS 209 – Business Letter/Report Writing – 3 CREDITS

**COMMUNICATION - 12 CREDITS**
The Communication program prepares students to transfer into a baccalaureate degree program. Designed to explore both theory and the development of practical skills, the core curriculum includes courses in oral communication, mass media, and media ethics. The General Communication concentration is designed to provide experience in a variety of areas associated with communication careers. Students then select from one of four concentrations to complete their degree.

- CMN 101 Mass Media – 3 CREDITS
- CMN 102 Media Issues & Ethics – 3 CREDITS
- CMN 111 Speech: Human Communication – 3 CREDITS
- CMN 151 Introduction to Radio – 3 CREDITS
CRIMINAL JUSTICE – 12 CREDITS
This program is designed for students interested in a career in the field of law enforcement or those preparing for advanced study in law, criminology, social welfare or criminal justice.

- CRJ 101 – Introduction to the Criminal Justice System – 3 CREDITS
- CRJ 103 – Introduction to Corrections – 3 CREDITS
- CRJ 105 – Criminology – 3 CREDITS
- CRJ 212 – Juvenile Justice – 3 CREDITS

CULINARY & PASTRY ARTS – 12 CREDITS
This program is designed to provide students with the opportunity to jump-start their career in the food service industry as a professional chef or pastry chef.

- HOS 100 – Hospitality Success Skills – 1 CREDIT
- HOS 101 – Food Preparation I – 3 CREDITS
- HOS 115 – Food and Culture – 3 CREDITS
- HOS 118 – Sanitation and Safety in Food Service Operations – 2 CREDITS
- HOS 217 – Professional Baking I – 3 CREDITS

DANCE – 12 CREDITS
This program offers an intensive study of jazz, ballet and modern technique. Students also receive training in choreography and perform in student-driven projects as well as the Mercer Dance Ensemble (MDE), Mercer County’s own dance company.

- DAN 101 – Introduction to Dance and Culture – 3 CREDITS
- DAN 116 – Studio Dance Technique I – 3 CREDITS
- DAN 117 – Studio Dance Technique II – 3 CREDITS
- DAN 120 – Choreography I – 3 CREDITS

ENTERTAINMENT TECHNOLOGY: MUSIC TECHNOLOGY - 12 CREDITS
The Entertainment Technology program prepares students for careers in the entertainment industry. The Music Technology concentration integrates music theory and performance with a comprehensive array of technical and business skills that enable the graduate to pursue a variety of career tracks in the music industry such as record producer, recording engineer, remix engineer, sound technician for live shows and concerts, as well as careers in the field of film scoring and film music editing.

- ETT 102 Introduction to Entertainment Industry – 3 CREDITS
- MUS 103 Introduction to Music – 3 CREDITS
- CMN 111 Speech: Human Communication - 3 CREDITS
- CMN 153 Digital Audio Production I – 3 CREDITS

ENTERTAINMENT TECHNOLOGY: TECHNICAL THEATER - 12 CREDITS
The Entertainment Technology program prepares students for careers in the entertainment industry. The Technical Theatre concentration prepares graduates for careers as lighting and sound technicians, technical managers, equipment marketing representatives, and technical personnel for distributors and rental houses.

- ETT 102 Introduction to Entertainment Industry – 3 CREDITS
- THR 101 Introduction to Theater – 3 CREDITS
- THR 152 Lighting Technology (Prerequisite: ETT 102) – 3 CREDITS
- CMN 153 Digital Audio Production 1 – 3 CREDITS
EXERCISE SCIENCE – 11 CREDITS
This program provides the opportunity for students to acquire the skills, knowledge and experience necessary to enter the continually evolving field of exercise science and to transfer into related baccalaureate programs.

- HPE 101 – Basic Concepts of Nutrition – 3 CREDITS
- HPE 105 – First Aid, CPR, and AED – 3 CREDITS
- HPE 110 – Concepts of Health and Fitness – 2 CREDITS
- HPE 151 – Introduction to Exercise Science – 1 CREDIT
- HPE 163 – Team Sport Management – 2 CREDITS

FASHION/APPAREL DESIGN - 12 CREDITS
The Fashion/Apparel Design program is highly interdisciplinary, providing a strong foundation in art, design, and technical studies while developing a perspective on both the creative and business aspects of the industry. The program also prepares students for advanced study at four-year colleges by paralleling the first two years of course requirements at several institutions. While the design sequence emphasizes core creative art skills, technical training focuses on computer applications used in the industry and sewing labs structured to mirror those of actual fashion/apparel studios.

- FAS 150 Technical Skills for Apparel Production I – 3 CREDITS
- FAS 105 Fashion: The Global Market Place (Kerney Campus) – 3 CREDITS
- FAS 250 Technical Skills for Apparel Production II – 3 CREDITS
- FAS 120 Introduction to Fashion Design I – 3 CREDITS

FASHION MERCHANDISING - 12 CREDITS
The Fashion Merchandising program prepares students for careers in fashion/apparel sales, marketing, buying, and merchandising. The program also prepares students for advanced study in business or marketing in a fashion/apparel-related program. The MCCC Fashion Merchandising curriculum parallels the first two years of education at a majority of undergraduate universities and art colleges, with an emphasis on career training for gainful employment.

- FAS 130 Introduction to Textiles for Fashion (Kerney Campus) – 3 CREDITS
- FAS 105 Fashion: The Global Market Place (Kerney Campus) – 3 CREDITS
- CMN 112 Public Speaking – 3 CREDITS
- MKT 101 Principles of Marketing – 3 CREDITS

FIRE SCIENCE TECHNOLOGY – 12 CREDITS (LOCATED AT DEMPSTER FIRE TRAINING CENTER)
This program provides students with skills and knowledge to become candidates for entry and/or advancement as professional and volunteer fire personnel.

- FIR 101 – Introduction to Fire Science – 3 CREDITS
- FIR 104 – Building Construction – 3 CREDITS
- FIR 204 – Fire Fighting Tactics – 3 CREDITS
- FIR 205 – Fire Department Organization – 3 CREDITS

GAMING - 12 CREDITS
The Gaming program prepares students for careers in the video game software industry, a relatively new and rapidly expanding industry. The New York City / northern New Jersey metro region is one of the ten largest in the country for video game design and development. Game Design is a highly interdisciplinary field drawing from a number of diverse areas such as art, writing, sound design, sociology, anthropology, computer technology, and
programming. The computer is the primary tool of expression in the program; however, emphasis is placed on the
development of creative thinking as well as art and design skills.

• ART 102 Basic Drawing (Kerney Campus) – 3 CREDITS
• ART 105 Two Dimensional Design – 3 CREDITS
• DMA 105 Introduction to Computer Art – 3 CREDITS
• GAM 120 Game Theory and Culture – 3 CREDITS

HOSPITALITY MANAGEMENT – 12 CREDITS
This program prepares students for employment in various entry-level management careers in the food service
and lodging industries.

• HOS 100 – Hospitality Success Skills – 1 CREDIT
• HOS 101 – Food Preparation I – 3 CREDITS
• HOS 115 – Food and Culture – 3 CREDITS
• HOS 118 – Sanitation and Safety in Food Service Operations – 2 CREDITS
• HOS 104 – Hotel Management/Lodging Operations I – 3 CREDITS

INFORMATION TECHNOLOGY – 12 CREDITS
This program prepares students for work in the Information Technology field. Students may pursue entry-level
jobs such as network technician, network administrator, help desk specialist, customer service representative
and/or any computer support specialist position.

• NET 102 – Introduction to PC Hardware & Software – 3 CREDITS
• NET 103 – IT Essentials – 3 CREDITS
• NET 104 – Fundamentals of Computer Networks – 3 CREDITS
• NET 130 – Routing and Switching Essentials – 3 CREDITS

NEW MEDIA AND JOURNALISM - 12 CREDITS
The New Media program prepares students for the rapidly developing field that combines traditional media such
as photography, film, music, and spoken and written word with the interactive power of computer and
communications technology. Students who have traditionally pursued courses of study in journalism, public
relations, advertising, and communications will find that this program substantially prepares them to enter the
work force or transfer to communications programs at four-year universities.

• PHO 103 Introduction to Digital Photography – 3 CREDITS
• CMN 131 Journalism I – 3 CREDITS
• CMN146 Social Media Technologies – 3 CREDITS
• CMN 231 Journalism II – 3 CREDITS

PHOTOGRAPHY - 12 CREDITS
The Photography and Digital Imaging program provides graduates with entry-level employment skills in the
rapidly changing professional photography field. The program includes foundation courses in basic photography,
digital photography, digital imaging, studio and documentary photography.

• PHO 103 - Introduction to Digital Photography - 3 CREDITS
• PHO 110 - History of Photography - 3 CREDITS
• PHO 203 - Digital Photography - 3 CREDITS
• PHO 251 – Documentary Photography - 3 CREDITS
PRE-ENGINEERING – 13 CREDITS
This program offers high school students the opportunity to study pre-engineering as it relates to structural and civil engineering skills. All students must have taken High School Physics to be accepted to the program.

- CIV 230 - Mechanics of Solids – 4 CREDITS
- CIV 227 - Structural Steel Design – 3 CREDITS
- CIV 103 – Statics – 3 CREDITS
- CIV 228 - Reinforced Concrete Design – 3 CREDITS

RADIO AND TELEVISION PRODUCTION – 12 CREDITS
This program provides practical hands-on work with state-of-the-art production studio equipment. In addition, the program emphasizes and develops communication skills.

- CMN 141 – Introduction to TV Production – 3 CREDITS
- CMN 142 - Intermediate TV Production – 3 CREDITS
- CMN 151 – Introduction to Radio – 3 CREDITS
- CMN 153 – Digital Audio Production – 3 CREDITS

THEATRE – 12 CREDITS
The Theatre program combines intensive classroom study and performance to challenge the serious student who aspires to a career in the entertainment industry.

- THR 101 – Introduction to Theatre – 3 CREDITS
- THR 104 – Fundamentals of Acting – 3 CREDITS
- THR 105 – Acting II: Principles of Characterization – 3 CREDITS
- THR 210 – Theatre History: Classical to Elizabethan – 3 CREDITS

VISUAL ARTS - 12 CREDITS
The Visual Arts program provides students with an understanding of the arts of both western and non-western societies, including so-called primitive cultures. There is an emphasis on drawing, painting, and printmaking courses, develops students’ technical skills and personal expression, and provides a deeper knowledge and appreciation of art history.

- ART 102 Basic Drawing (Kerney Campus) – 3 CREDITS
- ART 104 Life Drawing – 3 CREDITS
- ART 105 Two-Dimensional Design – 3 CREDITS
- ART 121 History of Art I – 3 CREDITS

Please contact your child’s school counselor for further assistance.
In preparation for exciting careers, students earn valuable industry certifications.

**Auto CAD**
Architectural/Engineering Design

**Automated External Defibrillator (AED), American Heart Association**
Health Occupations

**Cardiopulmonary Resuscitation (CPR), American Heart Association**
Health and Child Care
Health Occupations
Health Science Academy

**Microsoft Office Specialist**
Business Office Applications and Technology

**National Automotive Technicians Education Foundation (NATEF) Certified Programs**
Automotive Technology
Automotive Technology Fundamentals
Automotive Collision Technology

**New Jersey Board of Cosmetology and Hairstyling License**
Cosmetology

**Occupational Safety Health Administration (OSHA) 10-hour Course**
Building Maintenance Trades
Automotive Technology
Automotive Technology Fundamentals
Automotive Collision Technology
Carpentry
Diesel Technology
Electrical Construction
Graphic Arts Technology
Heating, Ventilation, Air Conditioning and Refrigeration Technology
Horticulture and Turf Care Management

**PrintEd, Graphic Arts Education and Research Foundation (GAERF)**
Graphic Arts Technology

**REVIT Architecture**
Architectural/Engineering Design

**ServSafe**
Baking and Dining Services
Culinary and Pastry Arts
Culinary Arts

**Universal Certification in Refrigerant Handling**
Heating, Ventilation, Air Conditioning and Refrigeration Technology

Please contact your child’s school counselor for further assistance.
ABOUT THE HEALTH SCIENCE ACADEMY

The Health Science Academy is a full-time, 4-year high school program for students interested in health sciences.

The Health Science Academy is a full-time, 4-year program offered by the Mercer County Technical School District. The Health Science Academy offers self-motivated students a comprehensive preparation for careers in the health, medical and biological sciences. Students work and study in a creative environment enhanced by contact with specialists in the health care fields. Personal and career counseling coupled with field experiences prepares each student for college and careers. The Health Science Academy is affiliated with colleges, universities, private practitioners and medical and research facilities in order to enhance a rigorous curriculum.

MISSION STATEMENT

It is the mission of the Health Science Academy to provide a highly specialized learning environment which promotes the development of a confident, well-rounded health care professional through unique academic experiences specific to the field of health care.

This will be achieved by:

- implementing challenging cross curricula experiences that promote critical thinking skills and foster opportunities for leadership
- embracing high professional standards in ethics and character development
- providing authentic clinical experiences and internships through professional and community partnerships
- utilizing state-of-the-art equipment technology that will enhance employment and academic opportunities in an ever-changing environment

ADMISSIONS

Any Mercer County 8th grader may apply. Interested candidates are encouraged to attend an information session to learn more. Applicants to the Health Science Academy may apply online in the fall of their 8th grade year.

The following criteria will be considered for admission:

- Grade Point Average/Attendance (7th and 8th grades)
- Standardized Test Scores - NJ ASK (7th grade)
- 2 Admissions Assessments (Math and Language Arts)
- Written recommendation from counselor or academic instructor

Students are admitted to the program through an application review process. All courses are designed and taught at an enriched level.

ACCREDITATION

Mercer County Technical Schools is certified by the New Jersey State Department of Education and is also accredited by the Middle States Association of Colleges and Schools.
CERTIFICATIONS

Students will work toward certifications in American Red Cross First Aid and American Heart Association's Health Care Provider CPR.

COLLEGE CREDIT

Articulation Agreements with Mercer County Community College (MCCC) and Rutgers School of Health Related Professions allow students to earn valuable college credit upon successful completion of high school classes.

COMMUNITY SERVICE

Every student must complete a minimum of forty (40) hours of community service prior to completing their studies at the Health Science Academy. The requirement must be met with at least two different community service activities.

EXPERIENTIAL LEARNING

Students have the opportunity to demonstrate what they've learned by participating in such co-curricular student organizations as Health Occupations Students of America (HOSA). In addition, students may elect to participate in the Debate Team, Student Council, Yearbook and Model UN.

FACULTY

The average teacher-to-student ratio is 1:10.

Please contact your child’s school counselor for further assistance.
ABOUT THE ACADEMY OF CULINARY ARTS

In September 2016, the Mercer County Technical School District launched a full-time, 4-year Academy of Culinary Arts at the Arthur R. Sypek Center.

The Academy of Culinary Arts will provide Mercer County high school students with an academically challenging and rigorous curriculum. Students will work toward the completion of Mercer County Community College credits and industry credentials while in high school. By senior year, spend their entire school day on the West Windsor campus of Mercer County Community College taking college courses. In addition, student learning will be enhanced through key business partnerships allowing for multiple workplace readiness and experiential learning opportunities.

APPLY ONLINE @ www.mcts.edu

Related Careers
- Baker
- Chef
- Event Planner
- Food Scientist
- Food Service Manager
- Head Cook
- Pastry Chef

ACADEMY OF CULINARY ARTS

Arthur R. Sypek Center 609.737.9785 (Main)
129 Bull Run Road, Pennington, NJ 08534 609.438.0109 (Admissions)

Please contact your child’s school counselor for further assistance.
The STEM Academy will deliver academically challenging and rigorous curriculum including Project Lead The Way, an activity-, project-, and problem-based curriculum. Students will work toward the completion of college credit and industry credentials while in high school. Student learning will be enhanced through key business partnerships allowing for multiple workplace readiness and experiential learning opportunities. In this specialized learning environment, students will apply what they know, identify problems, find unique solutions, and lead their own learning.

**APPLY ONLINE @ www.mcts.edu**

**Related Careers**
- Architectural and engineering managers
- Atmospheric and space scientists
- Computer occupations
- Machinists

**ASSUNPINK CENTER**
1085 Old Trenton Road 609.586.5144 (Main)
Trenton, NJ 08690 609.570.3400 (Admissions)

*Please contact your child’s school counselor for further assistance.*
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<table>
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