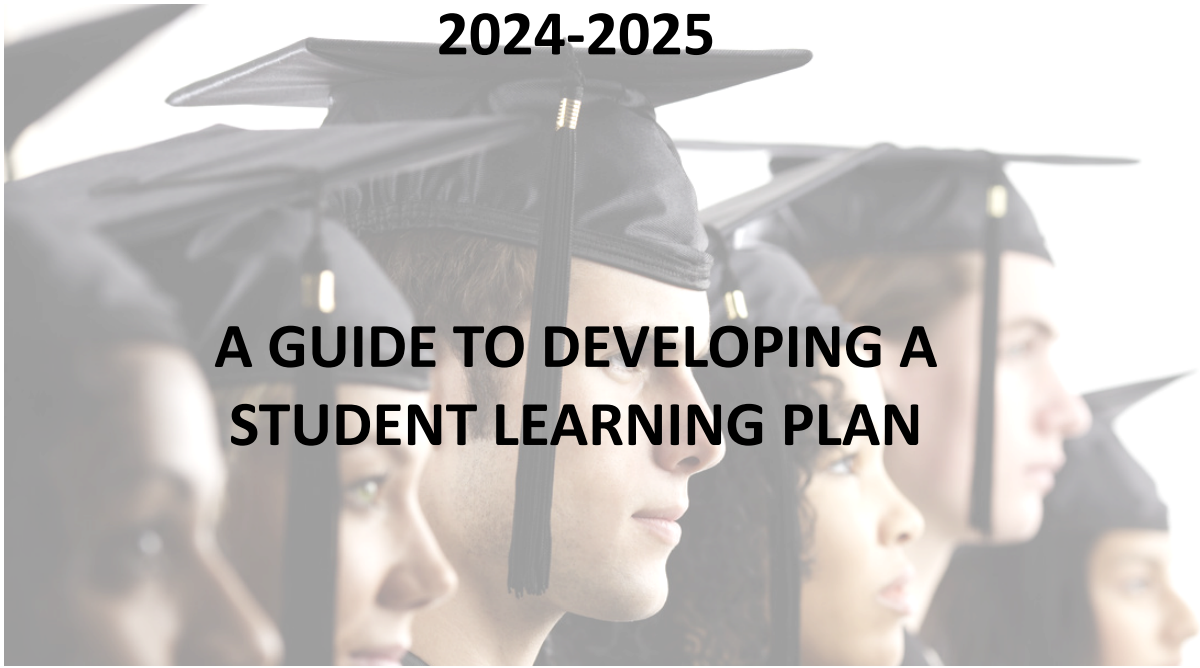
HAMILTON TOWNSHIP SCHOOL DISTRICT

HIGH SCHOOL PROGRAM OF STUDIES 2024-2025



A GUIDE TO DEVELOPING A STUDENT LEARNING PLAN

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HAMILTON HIGH SCHOOL EAST

2900 Klockner Road - (609) 631-4150
Principal: Bryan Rogers
Vice Principals: Barbara Costantino
Duane Robinson, Philip Zomparelli

SCHOOL COUNSELORS

Ann Wilmot (Department Chairperson),
Carrie Bowers, Brianna McKallen, Thaddeus Richards, Aimee Turnbull, Justin Wisniewski

HAMILTON HIGH SCHOOL NORTH

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

Ann Marie Schiavoni (Department Chairperson),
Jessica Belmont, Carina Foushee,
Jon Schwartz, Katy Vitale

HAMILTON HIGH SCHOOL WEST

2720 S. Clinton Avenue - (609) 631-4168
Principal: Brian Smith
Vice Principals: Erin Flanagan, Amanda Wegman,
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Danielle Marasco

District Bilingual 9-12 School Counselor - Anny Williams

CURRICULUM SUPERVISORS

Alejandro Batlle	K-12 PE/Health & World Language
Kevin Bobetich	Testing, Data, Staff Evaluation, & Special Projects
Michelle Griffith	K-12 ESL & Pre-K
Karen Gronikowski	K-5 Mathematics/Science
Laura Leidy-Stauffer	K-5 English Language Arts/Social Studies
Francesca Miraglia	6-12 English/Language Arts and Social Studies
Tracy Schwartz	6-12 Mathematics/STEAM
Matthew Sisk	6-12 Science/Applied Technology
Kerri Sullivan	K-12 Visual & Performing Arts
Danielle Tan	6-12 Business/Tech/ESSA/Perkins Grant/Library

AFFIRMATIVE ACTION PROGRAM FOR SCHOOL AND CLASSROOM PRACTICES

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
Dr. Dennis Copeland
609-631-4100 x3022
Email Address: dcopeland@htsdnj.org

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.**

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:

Grade	Numeric Equivalent	GPA
A+	97-100	4.3
A	94-96	4.0
A-	90-93	3.7
B+	87-89	3.3
B	84-86	3.0
B-	80-83	2.7
C+	77-79	2.3
C	74-76	2.0
C-	70-73	1.7
D+	67-69	1.3
D	64-66	1.0
D-	63-60	0.7
F	0-59	0.0

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

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

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.

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

*Taken in high school.

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).

EARLY GRADUATION

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);
- Principal (or his/her designee) is required to meet with Director of Curriculum & Instruction;
- 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.

Note: Students participating in high school athletics should keep in contact with their school counselor (regarding athletic eligibility).

ELA AND MATH ASSESSMENT REQUIREMENTS FOR THE CLASSES OF 2024-2025

(Subject to change based on revisions adopted by the NJ Dept. of Education)

The requirements in this section were adopted by the New Jersey State Board of Education on September 8, 2021 for the classes of 2024–2025.

English Language Arts and Literacy (ELA)

If, after completing the New Jersey Graduation Proficiency Assessment in grade 11, students did not demonstrate proficiency by passing the ELA component, such students may access the following pathways:

- **Second Pathway:** By meeting the designated cut score on a substitute competency test such as the PSAT, SAT, ACT, or ACCUPLACER; or
- **Third Pathway:** By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

Mathematics

If, after completing the required New Jersey Graduation Proficiency Assessment in grade 11, students did not demonstrate proficiency by passing the mathematics component, such students may access the following pathways:

- **Second Pathway:** By meeting the designated cut score on a substitute competency test such as the PSAT, SAT, ACT, or ACCUPLACER; or
- **Third Pathway**: By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

Pathways (including proficiency levels/cut scores) for the Classes of 2024-2025
are specified on the next two pages.

ELA AND MATH ASSESSMENT REQUIREMENTS FOR THE CLASSES OF 2024-2025

(Subject to change per the NJ Dept. of Education)

Students must take and demonstrate proficiency in grade 11 on the New Jersey Graduation Proficiency Assessment (NJGPA) which includes content aligned to the grade 10 New Jersey Student Learning Standards (NJSLS) in ELA, and the NJSLS in Algebra 1 and Geometry. If after completing the New Jersey Graduation Proficiency Assessment a student does not demonstrate proficiency on the ELA or mathematics section, the student may retake the New Jersey Graduation Proficiency Assessment in the following summer or fall.

A student with disabilities whose IEP states that they are not eligible for the alternate assessment (Dynamic Learning Maps) must take the New Jersey Graduation Proficiency Assessment in grade 11.

First Pathway—NJGPA

Note: Cut Scores approved by the New Jersey State Board of Education on February 2, 2022.

English Language Arts	Mathematics
New Jersey Graduation Proficiency Assessment — ELA ≥ 725 (Graduation Ready)	New Jersey Graduation Proficiency Assessment — Mathematics ≥ 725 (Graduation Ready)

Second Pathway—Substitute Competency Tests

Note: This pathway is only available to students who completed the New Jersey Graduation Proficiency Assessment in grade 11.

Students who sat for the New Jersey Graduation Proficiency Assessment in grade 11 and did not demonstrate proficiency are able to demonstrate proficiency in ELA and/or mathematics by meeting the designated cut score on one of the assessments on the menu of substitute competency tests in the table for the second pathway (below).

Second and Third Pathway on the next page.

Second Pathway—Menu of Substitute Competency Tests

Note: Cut Scores Approved by the New Jersey State Board of Education on May 3, 2023

English Language Arts	Mathematics
One of the following: ● ACT Reading ≥ 17 ● Accuplacer WritePlacer ≥ 5 ● Accuplacer WritePlacer English Second Language ≥ 4 ● PSAT10 Evidence Based Reading and Writing (EBRW) ≥ 420 ● PSAT10 Reading ≥ 21 ● PSAT/NMSQT EBRW ≥ 420 ● PSAT/NMSQT Reading ≥ 21 ● SAT EBRW ≥ 450 ● SAT Reading ≥ 23	One of the following: ● ACT Math ≥ 17 ● Accuplacer Elementary Algebra ≥ 49 ● Accuplacer Next-Generation QAS ≥ 250 ● PSAT10 Math Section or PSAT/NMSQT Math Section ≥ 420 ● PSAT10 Math or PSAT/NMSQT Math ≥ 21 ● SAT Math Section ≥ 440 ● SAT Math Test ≥ 22

Third Pathway—Portfolio Appeals

Note: This pathway is only available to students who completed the New Jersey Graduation Proficiency Assessment in grade 11.

Students who completed the New Jersey Graduation Proficiency Assessment in grade 11 and did not demonstrate proficiency are able to demonstrate proficiency in ELA and/or mathematics through a portfolio appeal in grade 12.

English Language Arts	Mathematics
Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

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. 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 • 1 year of visual/performing art.

NEW FAFSA GRADUATION REQUIREMENT

Beginning with the Class of 2025, and extending to the next two school years after that, students and their guardians must complete and submit either the Free Application for Federal Student Aid (FAFSA) or the New Jersey Alternative Financial Aid Application to get a diploma (unless they are granted an exemption after submitting a waiver or speaking to a guidance counselor).

SCHOOLINKS

Schoolinks is a comprehensive student-centered life planning on a modern platform available to all Hamilton Township High School students and families. Schoolinks empowers the student, family, and counselor to work together in planning for success during and beyond high school. All students and families can use Schoolinks for college searches, career searches, and portfolio building for senior year. All college common applications will be sent electronically through Schoolinks. Any student who is not familiar with the program should contact his/her school counselor. Additional information can be found through the Schoolinks link under the Guidance tab on the school website. Students may also access their Schoolinks account via Clever.

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. Khan Academy offers personalized and interactive tools and resources for SAT study and prep. The site gives students a tailored practice plan based on their practice scores or previous scores. See resources attached on how to connect your College Board account to the Khan Academy. Please visit: How to Link and Khan Academy Link

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. Students and families challenging a placement must follow the course appeal process noted below.

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, 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 withdrawal 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 and will 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 (IEP). The IEP or 504 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 IEP or 504 will then qualify pupil for a state endorsed diploma. No other exemptions will be made.

Requirements for Division I, II & 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 & 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
(see your school counselor for fee waiver information)

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

NOTE: Earn at least a 2.3 GPA (Division I) or 2.2 GPA (Division II) in your core classes.

NCAA Approved Courses - 24/25 SY

(Be sure to speak with your school counselor regarding any updates to this list.)

Approved English Courses	Approved World Language Courses
● English 9, 10, 11, and 12 (Levels B, A, and Honors) ● Creative Writing ● Journalism ● English Composition 101 and 102 (Dual Enrollment) ● AP English Language and Composition ● AP English Literature and Composition	● French (Levels I, II, III, IV, and AP) ● Spanish (Levels I, II, III, IV, and AP) ● German (Levels I, II, III, IV, and AP) ● Italian (Levels I, II, III, IV, and AP)
Approved Social Science Courses	**Approved Natural/Physical Science Courses**
● United States History I and II (Levels B, A, and Honors) ● American Law I and II ● AP Psychology ● Ancient History ● Medieval History ● AP European History ● Sociology ● Psychology ● AP United States History ● Honors Galre ● AP Government and Politics ● World History and Geography (Levels B, A, and Honors)	● AP Environmental Science ● AP Physics I and II ● Introduction to Biological and Organic Molecules ● Marine Biology ● Neuroscience and Society ● Physics (Levels A and Honors) ● Biology (Levels B, A, and Honors) ● Anatomy and Physiology ● Chemistry (Levels B, A, and Honors) ● Environmental Science (Levels B and A) ● AP Biology ● AP Chemistry
Approved Mathematics Courses	
● Algebra I (Levels B and A); ● Geometry (Levels B, A, and Honors) ● Algebra II (Levels B, A, and Honors) ● AP Calculus AB and BC ● AP Computer Science A ● AP Computer Science Principles ● AP Statistics ● Computer Science A ● Statistics and Discrete Math ● Pre-Calculus (Levels A and Honors) ● Honors Calculus ● Advanced Algebra with Trigonometry	

OPTION II

NON-TRADITIONAL COURSEWORK 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). **Students are required to meet course criteria as well.**

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. **Please refer to your school's student handbook regarding specific attendance requirements.**

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	(609) 631-4150 – Press 3 for Guidance
Hamilton High School North	(609) 631-4161 – Press 3 for Guidance
Hamilton High School West	(609) 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 their 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.

ADVANCED PLACEMENT

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
   - 1 year of Visual or Performing Arts
   - 2-3 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 catalogues 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.

Advanced Placement (AP) gives students the opportunity to tackle college-level coursework while they are still in high school. In addition, students are able to stand out in the college admissions process, gain valuable skills for success in college and career, earn college level credit, and so much more.

Hamilton Township School District is pleased to offer the following AP courses for the 24/25 School Year:

- AP Studio Art - Drawing
- AP Studio Art - 2D Design
- AP Studio Art - 3D Design
- AP Macroeconomics
- AP Microeconomics
- AP English Language and Composition
- AP English Literature and Composition
- AP Statistics
- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- AP Computer Science Principles
- AP Music Theory
- AP Environmental Science
- AP Biology
- AP Chemistry
- AP Physics I and II
- AP United States History
- AP Government and Politics
- AP European History
- AP Psychology
- AP French
- AP German
- AP Italian
- AP Spanish

Specific course descriptions are noted in each department section in this Program of Studies. Students/families may also visit the College Board website for more information (**https://ap.collegeboard.org/**).

ART

The Visual Arts Program is offered to students in grades 9 through 12. The program consists of elective offerings designed to develop students' artistic thinking, creative expression, and artistic skills through an investigation of forms, structures, materials, concepts, media, and art-making approaches. Students will learn how visual arts influences our understanding of and responses to the world. We offer courses designed for all levels, whether students are interested in a general exploration of visual arts or a more concentrated study required for college acceptance and careers in the arts. The program begins with Art Fundamentals; however, if the student feels that they are able to demonstrate ability beyond the introductory level, they can elect to submit a portfolio for a chance to bypass Art Fundamentals. The advanced level courses are strongly recommended for portfolio preparation necessary for college admissions in visual arts. ADVANCED PLACEMENT COURSES ADHERE TO COLLEGE BOARD REQUIREMENTS. Please note that some courses require a recommendation from a visual arts teacher. For more information contact the Supervisor of the Arts.

ART FUNDAMENTALS (05151E5011)
Grades 9-12 5 credits
No prerequisite

Students will learn and practice basic visual art concepts and produce original artwork. Students will discuss the artistic movements that have shaped the visual art world and the evolution of art forms, techniques, symbols, and themes and relate it to their own artistic practice.

MIXED MEDIA (05154E5011)
Grades 9-12 5 credits
Prerequisite: 70 or higher in Art Fundamentals **OR** portfolio review

Mixed media refers to a visual art form that combines a variety of media in a single artwork, assemblages and collages are two common examples. Students enrolled in mixed media will explore techniques in combining painting, sculpture, photography, collage, cloth, paper, wood, found objects, and more!

DRAWING AND PAINTING (05155E5011)
Grades 9-12 5 credits
Prerequisite: 75 or higher in Art Fundamentals **OR** portfolio review

This course will provide an opportunity for students to explore various drawing and painting media, styles, and techniques. Students will understand the historical periods in which certain styles of art were developed. Emphasis is placed on experiences, skills, techniques, and abilities that are necessary for advanced art courses. Students are given in-depth problems to solve creatively while becoming more adept through a broad exposure to various drawing and painting media, such as pastel, tempera, watercolor, oil, and acrylic.

HONORS DRAWING AND PAINTING (05155H5011)
Grades 10-12 5 credits
Prerequisite: 85 or higher in Drawing and Painting **AND** recommendation from teacher

This course is designed for students who plan to study visual art in college or pursue a career in the arts. The emphasis of the course is on portfolio preparation. Each student will have the opportunity to make personal, socio-cultural, and aesthetic experiences through the understanding and production of art. Students will be exposed to a variety of mediums, subjects, artists, and artistic movements, and will develop a personal style based on a variety of concepts and techniques.

CERAMICS AND SCULPTURE (05158E5011)
Grades 10-12 5 credits
Prerequisite: One year of visual art with a 70 or higher

Students will explore various techniques used to design and create ceramics and sculpture artwork. 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 may include wood, metal, plaster, clay, plastics, and soft stone.

COMMERCIAL DESIGN AND ILLUSTRATION (05162E5011)
Grades 11-12 5 credits
Prerequisite: Two years of visual art with an 80 or higher

This class enhances students' skills in design, drawing, and painting through an exploration of various techniques used in commercial design and illustration. In addition to traditional visual art mediums, computer software is often used in commercial design. The commercial design component consists 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: Two years of visual art with an 80 or higher **AND** recommendation from a visual arts teacher

This is an independent study course designed for students who plan to study visual arts in college or pursue a career in the arts. The emphasis of the course is 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.

ADVANCED PLACEMENT STUDIO ART: DRAWING (05172X5011)
Grades 11-12 5 credits
Prerequisite: : Two years of visual art with an 80 or higher **AND** recommendation from a visual arts teacher

This course allows students to develop their drawing skills and experiment with different materials and processes while creating artwork that reflects their own ideas and skills. The emphasis of the course is portfolio preparation and is ideal for students who plan to study visual arts in college or pursue a career in the arts. This college-level course provides visual art students with an opportunity to earn college credits by receiving a qualifying score on their portfolio. For more information, please visit, https://apstudents.collegeboard.org/courses/ap-drawing. *Students enrolled in this course are required to submit an Advanced Placement portfolio for review.*

ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN (05174X5011)
Grades 11-12 5 credits
Prerequisite: Two years of visual art with an 80 or higher **AND** recommendation from a visual arts teacher

This course allows students to develop their 2-D skills through materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, and more, while creating artwork that reflects their own ideas and skills. The emphasis of the course is portfolio preparation and is ideal for students who plan to study visual arts in college or pursue a career in the arts. This college-level course provides visual art students with an opportunity to earn college credits by receiving a qualifying score on their portfolio. For more information, please visit, http://www.collegeboard.com/student/testing/ap/sub_studioart.html. *Students enrolled in this course are required to submit an Advanced Placement portfolio for review.*

ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN (05175X5011)

Grades 11-12 5 credits

Prerequisite: Two years of visual art with an 80 or higher **AND** recommendation from a visual arts teacher

This course allows students to develop their 3-D skills through materials and processes such as sculpture, architectural rendering and models, metal work, ceramics, glass work, and more, while creating artwork that reflects their own ideas and skills. The emphasis of the course is portfolio preparation and is ideal for students who plan to study visual arts in college or pursue a career in the arts. This college-level course provides visual art students with an opportunity to earn college credits by receiving a qualifying score on their portfolio. For more information, please visit, https://apstudent.collegeboard.org/apcourse/ap-studio-art-3-d-design. *Students enrolled in this course are required to submit an Advanced Placement portfolio for review.*

BUSINESS AND INFORMATION TECHNOLOGY

Coursework within the business classes seeks to develop both the content knowledge and industry-relevant skills needed to thrive in the business world. Courses such as Computer Applications, 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.**

Elective Business Courses

PERSONAL FINANCIAL LITERACY (19262E2511)
Grades 9-12 2.5 credits
No prerequisite
This required course delves into different aspects 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 students to become productive and responsible citizens.

BUSINESS LAW & CIVICS (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, cyber law, and cyber security.

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.

COMPUTER APPLICATIONS (10004E5011)*
Grades 9-12 5 credits
No prerequisite
This course provides an introduction to software applications that prepare students for success in high school and beyond. Students will gain proficiency with various apps., including the Google Apps Suite. Students will develop an understanding of how these applications assist with professional communications and collaboration. Just a few of the many skills that will be taught include: text formatting, use of graphics, Internet applications, spreadsheet formulas, charts and graphs, presentation management and animations, and more.

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 and website literate. Students will experience hands-on application of teacher-made projects and commercially prepared software. Students will have the opportunity to design and create simple to complex websites using various software programs, including Adobe Photoshop, and Google Drawings.

BUSINESS COMMUNICATIONS (12009E2511)*

Grades 10-12 2.5 credits

No prerequisite

This semester course helps students to develop an understanding and appreciation for effective communication in business situations and exposes students to a variety of media that help with planning, organizing, and developing business documents and presentations. Students will also develop public-speaking/presentation skills. Progression will be made from simple two-minute presentations using index cards and flip charts to longer presentations involving Google Slides and other forms of electronic/ digital media.

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 and/ or other computer applications.

AP MICROECONOMICS (04203X5011)

Grade 10-12 5 credits

Prerequisite: 1) 87% or higher in most recent history course OR successful completion of most recent AP history course and teacher recommendation 2) 84% or higher Algebra II A or an 80% in Algebra II Honors AND teacher recommendation

AP Microeconomics provides a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. The course places primary emphasis on the nature and functions of product markets and will cover theories of consumer and business behavior. Students will analyze the different costs, prices, and output decisions faced by firms. Four different market models will be studied: pure competition, monopolistic competition, oligopoly, and pure monopoly. Students will apply learned knowledge of graphs, charts, and data to analyze, describe, and explain economic concepts. For more information please refer to: COLLEGE BOARD LINK *Students enrolled in this course are required to sit for the Advanced Placement exam.*

AP MACROECONOMICS (04204X5011)

Grade 10-12 5 credits

Prerequisite: 1) 87% or higher in most recent history course OR successful completion of most recent AP history course and teacher recommendation 2) 84% or higher Algebra II A or an 80% in Algebra II Honors AND teacher recommendation

AP Macroeconomics provides a thorough understanding of the principles of economics that apply to an economic system as a whole. Topics covered include employment, inflation, GDP, monetary policies, and international trade. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. For more information please refer to: COLLEGE BOARD LINK . Students enrolled in this course are required to sit for the Advanced Placement exam.

Career and Technical Education (CTE) Business Courses

ACCOUNTING ESSENTIALS (12104E2511)

Grades 10-12 2.5 credits

No prerequisite

This is the first course in the Finance Pathway. 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 updating check registers, and preparing bank reconciliations. An orientation to spreadsheet applications will allow the student to complete business transactions using the computer.

CORPORATE ACCOUNTING (12103E2511)

Grades 10-12 2.5 credits

Prerequisite: Accounting Essentials

This is the second course in the Finance Pathway. 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. Spreadsheet applications will be integrated throughout the semester.

HONORS ACCOUNTING (12104H5011)

Grades 11-12 5 credits

Recommendation: Students will be strongly **encouraged** to have Accounting Essentials and Corporate Accounting as a prerequisite.

This is the final course in the Finance Pathway. 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. Spreadsheet applications will be integrated throughout the course (students that complete all three courses in the Accounting Pathway will be provided an opportunity to become certified in QuickBooks Online).

INTRODUCTION TO BUSINESS (12051E5011)

Grades 9-12 5 credits

No prerequisite

This is the first course in the Business Administration and Management Pathway. 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 informational management technology for Business.

INTERNATIONAL BUSINESS AND ECONOMICS (12056E5011)

Grades 10-12 5 credits

Recommendation: Students will be **encouraged** to have Introduction to Business as a prerequisite.

This is the second course in the Business Administration and Management Pathway. 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.

HONORS BUSINESS ADMINISTRATION (12052H5011)

Grades 11-12 5 credits

Recommendation: Students will be strongly **encouraged** to have Introduction to Business and International Business and Economics as prerequisites.

This is the final course in the Business Administration and Management Pathway. In this course, students will develop a better understanding of the knowledge and skills needed to develop and run a successful business. 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. In addition, students will identify key characteristics of an entrepreneur, evaluate business opportunities, engage in customer discovery, apply design thinking, and evaluate the feasibility of a business idea. 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 the college level.

MARKETING I - ESSENTIALS (12151E2511)

Grades 10-12 2.5 credits

No prerequisite

This is the first course in the Marketing Pathway. 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 (12163E2511)

Grades 10-12 2.5 credits

Prerequisite: Marketing I Essentials

This is the second course in the Marketing Pathway. 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

This is the final course in the Marketing Pathway. This course provides 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.

CTE Pathways

Business Management and Administration: Introduction to Business → International Business & Economics → Honors Business Administration (Pending Dual Enrollment Partnerships)

Finance: Accounting Essentials → Corporate Accounting→Honors Accounting (Students that complete all three courses in the Accounting Pathway will be provided an opportunity to become certified in QuickBooks Online.)

Marketing: Marketing I Essentials → Marketing II Sports Entertainment Marketing → Marketing III Work Experience (Pending Dual Enrollment Partnerships)

*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).

ENGLISH

The English Department curricula focus on literacy development through a variety of experiences that foster reading, writing, speaking, and listening skills. Students will consider a wide variety of literary genres and the works of many authors; selections include multicultural, historical, biographical, classic, and contemporary literature. Students will learn to write as a way to offer and support opinions, demonstrate understanding of a particular subject, and convey real and imagined experiences and events.

The State of New Jersey requires four years of English instruction for high school graduation. All courses address the New Jersey Student Learning Standards; in addition to the core courses, a variety of electives, designed for the particular interests and talents of our students, are also available.

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. A placement essay is also required; other entrance criteria may be utilized, such as 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, attendance, and standardized test scores.

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 as well as additional lessons focusing on study skills, organization, and high school success.

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 written pieces 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-english-language-and-composition. *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 ENGLISH 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-english-literature-and-composition. *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.

DIGITAL MEDIA LITERACY I (11153E2512)

Grades 11-12 2.5 credits

Prerequisite for Digital Media Literacy I: Students must have a minimum of a 74% in most recent core English class.

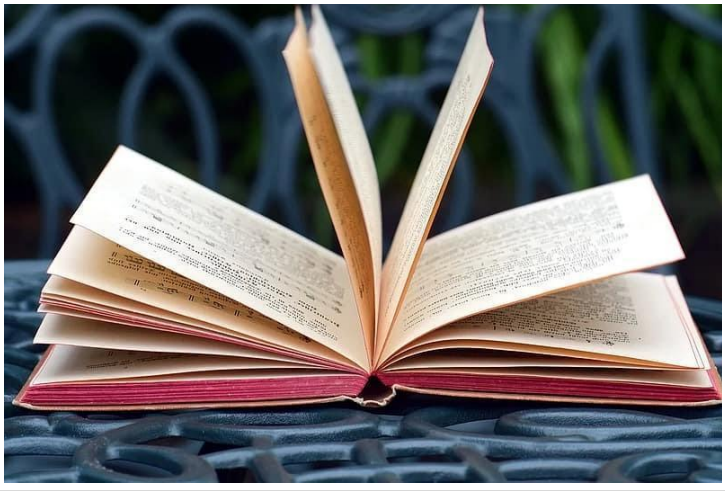
The Digital Media Literacy I course involves students in a variety of media literacy and production activities. Students use and develop their English Language Arts skills through script-writing, oral presentations, and critical analyses. Students will be introduced to various types of electronic media, including advertising, audio and print media, television, and film. They will begin to work collaboratively to produce short videos, and will have the opportunity to acquire information about digital career opportunities linked to their interests.

DIGITAL MEDIA LITERACY II /SOCIAL MEDIA (11153E2522)

Grades 11-12 2.5 credits

Prerequisite for Digital Media Literacy II/Social Media: Successful completion of Digital Media Literacy I and demonstrated proficiency in technology

In Digital Media Literacy II / Social Media, students will continue to write scripts, edit, and produce a variety of videos (documentaries, music videos, public service announcements, etc.). The second half of the course will focus on Social Media communication. Students will learn about the appropriate use of social media in educational and professional realms, gain hands-on technical skills, and develop content for distribution on school social media platforms while also considering purpose, audience, and viewer engagement. Students will continue to acquire information and gain skills applicable for digital career opportunities.



ENGLISH AS A SECOND LANGUAGE

The ESL Department is dedicated to supporting learners whose primary language is one other than English at home and need additional language assistance. The intent of the department is to ensure that multilingual learners receive a well-developed education that supports the integral components of acquiring academic English‑ to meet their academic, social and cultural needs while respecting and appreciating the language and culture of multilingual learners (MLs) and their families. ESL instruction is an academic discipline that is designed to teach multilingual learners (MLs) social and academic language skills aligned to the WIDA English Language Development Standards along with the New Jersey Student Learning Standards; as well as, the cultural aspects of the English language that are essential to succeeding in academic environments. It encompasses a curriculum focusing on listening, speaking, reading, and writing at appropriate developmental and proficiency levels.

The objectives of the LIEP (Language instruction education program) are to develop both basic interpersonal communication skills (BICS) and cognitive academic language proficiencies (CALPS). Planned instruction in ESL classes include listening, speaking, reading and writing at different levels of proficiency (Entering, Emerging, Developing, Expanding, Bridging). The amount and type of standards-based ESL instruction provided to students depends upon their level of language development and proficiency as determined by multiple criteria including student reading level, student success in former/current ELL course placement, student success in mainstream courses, WIDA ACCESS and/or WIDA MODEL assessment for English language proficiency, and ESL teacher recommendations.

ESL 1 - Entering (01008G5014)

Grades 9-12 5 credits

Prerequisite: Placement is determined by proficiency level determined by the WIDA Screener or ACCESS Test score

This course is offered to students who have a minimal knowledge of English as determined by the ESL teacher through the screening process. It includes the application of basic English vocabulary in sentence structure. The students learn basic and academic vocabulary words and English grammar. They will use this vocabulary to strengthen their listening and speaking skills and then in their reading and writing. Frequent repetition is used to reinforce their learning of grammar and new vocabulary in addition to using scaffolds that enhance the acquisition of new vocabulary in all four language domains.

ESL 2 - Emerging (01008G5024)

Grades 9-12 5 credits

Prerequisite: ESL 1 or by proficiency level determined by the WIDA Screener or ACCESS Test score

This course is offered to students who can speak some English but are limited in vocabulary and grammar usage as determined by WIDA ACCESS, WIDA MODEL, and/or as determined by ESL teacher input. Students learn commonly used grade specific basic and academic vocabulary words and more advanced grammar and tenses. Dialogue progresses from basic conversational speech to narratives and to the production of brief presentations.

ESL 3 - Developing (01008G5034)

Grades 9-12 5 credits

Prerequisite: ESL 2 or by proficiency level determined by the WIDA Screener or ACCESS Test score

This course is offered to students who have acquired conversational English abilities yet still need to improve their vocabulary, reading and writing skills. Students learn academic vocabulary, grammar and work with advanced grade specific reading materials. Students are provided with skills to be able to present on topics using grade level academic vocabulary and grammar. Students are presented with preparatory activities for standardized testing.

ESL 4 - Expanding (01008G5044)

Grades 9-12 5 credits

Prerequisite: ESL 3 or by proficiency level determined by the WIDA Screener or ACCESS Test score

This course is offered for students who have acquired hi English abilities yet need to expand their academic vocabulary in speaking, reading and writing in order to achieve a passing score on WIDA ACCESS or WIDA MODEL. Students learn advanced academic grade level vocabulary, grammar and are provided with advanced fiction and nonfiction reading material. Students are also provided with speaking, reading, and writing skills to be able to present on topics using grade level academic vocabulary and grammar. Students are also provided with preparatory activities for standardized testing

ESL 5 - Bridging (01008G2511)

Grades 9-12 2.5 credits

Prerequisite: ESL 4 or by proficiency level determined by the WIDA Screener or ACCESS Test score

This is a half year course offered to students who have recently passed or have not passed the ACCESS test but have acquired strong basic conversational English abilities. This course provides students with extra time to improve vocabulary, reading, and writing. The course focuses on continued refinement of basic and academic English while allowing students to study material as in the mainstream English program. This course is not a full year course and can be used as an elective for students who have passed out of ESL and are looking to improve their academic vocabulary in all four language domains under the supervision of an ESL Certified teacher.

ESL LAB 1 (01009G5013)

Grades 9-12 5 credits

This course compliments ESL. Its main objective is to offer intensive practice in English basic skills necessary to obtain a passing score on state standardized tests and ACCESS. It includes intensive speaking and listening practice as well as some reading and writing complements.

ESL LAB 2 (01009G5023)

Grades 9-12 5 credits

This course complements ESL 1 or 2. Its main objective is to offer intensive practice in English basic skills necessary to obtain a passing score on state standardized tests and ACCESS. It includes intensive speaking and listening practice as well as some reading and writing complements.

ESL periods may also satisfy high school English and World Language graduation requirements as pursuant to N.J.A.C. 6A:8-5.1. See your child's school counselor for more information.

HEALTH AND PHYSICAL EDUCATION

The Health and Physical Education program's focus is for all students to acquire the essential skills of health and physical literacy that will assist in pursuing a life of wellness. The goal of the department is to emphasize 21st-century skills and interdisciplinary connections to empower students that: Maintain mental health awareness and social/emotional support systems; participate in a physically active lifestyle; utilize conflict resolution skills; and Create and sustain healthy relationships; Advocate for personal, family, community, and global wellness.

Health and Physical Education is annually required for every student by the state of New Jersey. 9th and 10th-grade students will receive Health Education during Semester 1 and Physical Education in Semester 2. 11th and 12th graders will receive Physical Education during Semester 1 and Health Education during Semester 2.

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 assist 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.

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 make sure our students meet the state's student learning objectives. 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. Students will also 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.

Grade level health topics can be found on the HTSD Curriculum Webpage https://www.htsdnj.org/Page/14573

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.

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

Simulator and Behind the Wheel (BTW) are elective courses that do not receive 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.

Note: This program is only available to students that are on the official school roster for attending HTSD in a full time or shared time capacity.

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. Physical Literacy focuses on allowing students 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.

The Hamilton Township Physical Education program prioritizes student growth and diverse experiences through five core categories: Movement & Rhythm/Dance, Individual/Partner, Cooperative Learning, Wellness & Fitness, and Team Activities. Throughout their middle school journey, students encounter a stimulating variety of lessons, adapted to available resources and specifically designed to promote skills like coordination, teamwork, and healthy habits. Each category plays a distinct role, from nurturing individual expression through dance to fostering collaborative spirit in team sports. This comprehensive approach contributes to the program's ultimate goal of empowering students with the knowledge, skills, and passion to pursue well-being, fitness, and a lifelong love for movement. To achieve this, all students in each grade participate in two marking periods of physical education, where engaging activities seamlessly incorporate movement and fitness standards through diverse avenues like movement education, cooperative games, individual challenges, and team sports. By integrating cognitive content and learning experiences that emphasize a healthy, active lifestyle, the program cultivates well-rounded individuals who are physically competent, socially adept, and empowered to make informed choices for their well-being.

INTRODUCTION TO SPORTS MEDICINE (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.

MATHEMATICS

The Mathematics Department provides a variety of course offerings to help prepare students for a future in a technological world. These classes of varying levels offer college-preparatory math in a collaborative learning environment in preparation for PSAT, SAT and ACT exams. The Mathematics program is aligned to the New Jersey Student Learning Standards. Students who are planning to attend four year colleges are encouraged to take four years of high school math, and should plan to complete up to Precalculus at a minimum in high school. Students planning a career in a STEM field should plan to complete Calculus in high school.

Possible High School Mathematics Pathways

If a student takes Algebra 1 in 9th grade, the following are possible pathways:

Pathway Option	9th Grade	10th Grade	11th Grade	12th Grade*
1	Algebra 1	Geometry	Bridge to Algebra 2	Algebra 2 or Statistics/Discrete Math
2	Algebra 1	Geometry	Statistics/Discrete Math	Bridge to Algebra 2 or Algebra 2
3	Algebra 1	Geometry	Algebra 2	Advanced Algebra with Trigonometry ***or*** Precalculus ***or*** Statistics/Discrete Math

*Students in Grade 12 who have not met the graduation requirement for mathematics will be enrolled in Mathematics Concepts and Applications 12.

If a student takes Geometry in 9th grade (having completed Algebra 1 in 8th grade), the following are possible pathways:

Pathway Option	9th Grade	10th Grade	11th Grade	12th Grade*
1	Geometry	Algebra 2	Precalculus	Statistics/Discrete Math ***or*** Honors Calculus ***or*** AP Calculus AB ***or*** AP Statistics
2	Geometry	Algebra 2	Advanced Algebra with Trigonometry	Statistics/Discrete Math ***or*** Precalculus
3	Geometry	Algebra 2	Statistics/Discrete Math	Precalculus ***or*** AP Statistics

4	Geometry	Statistics/Discrete Math	Bridge to Algebra 2 or Algebra 2	**Algebra 2 or **Advanced Algebra with Trigonometry or **Precalculus

*Students in Grade 12 who have not met the graduation requirement for mathematics will be enrolled in Mathematics Concepts and Applications 12.

**12th Grade course dependent on 11th Grade course completed.

If a student takes Algebra 2 in 9th grade (having completed Algebra 1 and Geometry in 7th and 8th grade), respectively, the following are possible pathways:

Pathway Option	9th Grade	10th Grade	11th Grade	12th Grade*
1	Algebra 2	Precalculus	Statistics/Discrete Math ***or*** Honors Calculus ***or*** AP Statistics	**AP Calculus AB ***or*** **AP Calculus BC ***or*** **AP Statistics
2	Algebra 2	Advanced Algebra with Trigonometry	Statistics/Discrete Math ***or*** Precalculus	**Honors Calculus ***or*** **AP Calculus AB ***or*** **AP Statistics
3	Algebra 2	Statistics/Discrete Math	Advanced Algebra with Trigonometry or Precalculus ***or*** AP Statistics	**Precalculus or **Honors Calculus ***or*** **AP Calculus AB ***or*** **AP Statistics

*Students in Grade 12 who have not met the graduation requirement for mathematics will be enrolled in Mathematics Concepts and Applications 12.

**12th Grade course dependent on 11th Grade course completed.

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.

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 as well as additional lessons focusing on study skills, organization, and high school success.

ALGEBRA IB (02052G5011)*

Grades 10-12 5 credits

Prerequisite: Review of previous mathematics performance **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.

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 (84% or higher) or Algebra IB (84% or higher) **AND** Teacher Recommendation
- 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 **AND** Geometry or Bridge to Algebra II **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.

ADVANCED ALGEBRA WITH TRIGONOMETRY (02109E5011)*

Grades 10-12 5 credits

Prerequisite: Algebra IIA and Geometry A (84% or higher) or Algebra IIB and Geometry B (90% or higher) AND Teacher/Supervisor Recommendation

This course incorporates the study of extended algebra topics with the study of introductory trigonometry. Topics studied include function theory, trigonometric, linear, exponential, rational, polynomial, logarithmic functions, and the conic sections. Equation solving, problem solving, critical thinking and graphing will be stressed throughout the course. This course is intended as an intermediate step between Algebra II and Precalculus. For some students, this could be a fourth year math course. Additionally, enrolling in this class will help students be prepared for college entrance exams.

STATISTICS/DISCRETE MATH (02201E5011)*

Grade 10-12 5 credits

Prerequisite: Successful completion of Algebra I and Geometry

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. For more information, please refer to*: College Board/*AP Statistics. *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. For more information, please refer to*: College Board/*AP Calculus AB. *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. For more information, please refer to: College Board/AP Calculus BC. Students enrolled in this course are required to sit for the Advanced Placement exam.

COMPUTER SCIENCE

Computer science courses are available for those students with an interest in programming. The computer science curriculum provides a comprehensive learning path, starting with an introductory course that covers the evolution of computers, fundamental system concepts, and practical programming applications using Visual Basic. Students gain hands-on experience with key programming elements such as loops, arrays, decisions, and sorting algorithms. For advanced learners, the curriculum offers two distinct paths focused on programming methodology in Java, preparing students for the AP exam, and exploring the broader impact of computing on society. Emphasizing computational thinking, courses aim to inspire students, demystify technology, build essential life skills, and empower students to understand their role in shaping technology. Reading and writing skills are integrated to enhance comprehension and critical thinking throughout the curriculum. These courses offer a well-rounded educational experience in computer science, spanning from foundational programming to ethical considerations in technology.

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 such as Visual Basic, JavaScript, Java and/or Python. 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. For more information, please refer to: *College Board/*AP Computer Science A . *Students enrolled in this course are required to sit for the Advanced Placement exam.*

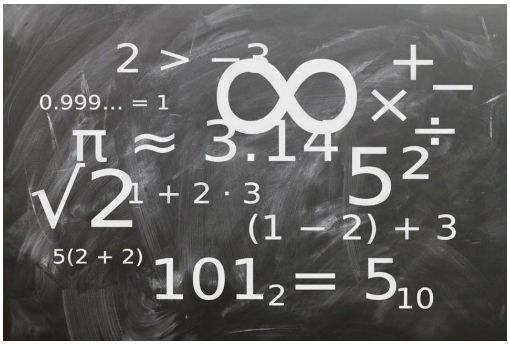
ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES (10160X5011)

Grades: 10-12 5 credits

Prerequisite: Algebra IB (80% or higher) or Algebra IA (74% or higher), **AND** Teacher Recommendation.
Computer Science A recommended but not required.

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. For more information, please refer to: *College Board/* AP Computer Science Principles. *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.



MUSIC

The Music Program is offered to students in grades 9 through 12. The program's focal areas are: Band, String Orchestra, and Vocal Music. The program consists of offerings designed to develop students' artistic thinking, creative expression, and musical skills. Students will explore the expressive qualities and intentions of music, music theory, and music creation, while learning how to analyze and evaluate music, strengthen their technical skills, and perform in various musical genres and contexts. Students will learn how music influences our understanding of and responses to the world. Elective offerings are designed for all levels, whether students are interested in a general exploration of music or a more concentrated study required for college acceptance and a career in music. The advanced level courses are strongly recommended for college admissions in music. ADVANCED PLACEMENT COURSES ADHERE TO COLLEGE BOARD REQUIREMENTS. Please note that some courses require a recommendation from the music teacher or an audition. For more information, please contact the Supervisor of the Arts.

CONCERT CHOIR I-IV (05110E5014) (05110E5024) (05110E5034) (05110E5044)

Grades 9-12 5 credits

No prerequisite

In this performance ensemble, students will learn the correct usage of the singing and speaking voice, engage in a progressive study of music literature, and experience the art of singing from the perspective of the listener and the performer. As students progress through the sequence of courses, they will deepen their understanding of breath control, production of vocal sounds, sight-reading, interval training, and performance skills. Students will explore a sample of choral music from the past five centuries. There is no prerequisite for Concert Choir I. Subsequent study in Concert Choir is dependent upon successful completion of Concert Choir I and recommendation of the vocal teacher.

HONORS CHOIR I-IV (05111H5014) (05111H5024) (05111H5034) (05111H5044)

Grades 9-12 5 credits

Prerequisite: Audition **AND** music teacher recommendation

In this advanced performance ensemble, students will embark on an extensive study of vocal music and participate in many, mandatory, performance opportunities throughout the year. Students will explore advanced repertoire and will continue to build comprehensive music skills. Students will engage in solo and ensemble singing and demonstrate vocal independence, harmonizing abilities, and sight-singing skills. In Honors Select Choir III and IV, students will develop leadership skills through opportunities to conduct, accompany, and choreograph performances.

INTRODUCTION TO STRINGS I-IV (05120E5014) (05120E5024) (05120E5034) (05120E5044)

Grades 9-12 5 credits

No prerequisite

This course is for students who would like to begin to study a specific string instrument (e.g., violin, viola, cello, bass). Students will learn the fundamental skills of their instrument, including technical accuracy and expressive qualities. Students will learn how to read and perform music and explore various musical styles.

STRING ORCHESTRA I-IV (05104E5014) (05104E5024) (05104E5034) (05104E5044)

Grades 9-12 5 credits

Prerequisite: music teacher recommendation

In this intermediate performance ensemble, students will participate in performance opportunities throughout the year. Students will apply musical skills and concepts, acquired from previous musical studies, to playing in an ensemble. As students progress through this sequence of courses, they will develop their musical skills and understanding through exploring a wide range of musical styles and diverse repertoire. Emphasis will be placed on performance, with students learning to interact musically, make decisions, and communicate effectively. This course will also develop students' ability to listen to, respond to, and read a diverse selection of music.

HONORS STRING ORCHESTRA I-IV (05104H5014) (05104H5024) (05104H5034) (05104H5044)

Grades 9-12 5 credits

Prerequisite: Audition **AND** music teacher recommendation

In this advanced ensemble, students will deepen their understanding of music along with their technical and expressive abilities through in-depth study and mandatory performance opportunities. As students progress through this sequence of courses, they will engage with challenging repertoire and will continue to develop comprehensive performance skills and an understanding of music theory and history. Students will apply advanced skills in a variety of performance opportunities, including solo and ensemble performance.

BAND I-IV (05102E5014) (05102E5024) (05102E5034) (05102E5044)

Grades 9-12 5 credits

Prerequisite: music teacher recommendation

In this intermediate performance ensemble, students will participate in performance opportunities throughout the year. Students will apply musical skills and concepts, acquired from previous musical studies, to playing in an ensemble. As students progress through this sequence of courses, they will develop their musical skills and understanding through exploring a wide range of musical styles and diverse repertoire. Emphasis will be placed on performance, with students learning to interact musically, make decisions, and communicate effectively. This course will also develop students' ability to listen to, respond to, and read a diverse selection of music. Students will perform in concert band and have the opportunity to engage in other performance opportunities (e.g., marching band, jazz band) throughout the year.

HONORS BAND I-IV (05102H5014) (05102H5024) (05102H5034) (05102H5044)

Grades 9-12 5 credits

Prerequisite: Audition **AND** music teacher recommendation

In this advanced ensemble, students will deepen their understanding of music along with their technical and expressive abilities through in-depth study and mandatory performance opportunities. As students progress through this sequence of courses, they will engage with challenging repertoire and will continue to develop comprehensive performance skills and an understanding of music theory and history. Students will apply advanced skills in a variety of performance opportunities, including solo and ensemble performance. Students will perform in concert band and have the opportunity to engage in other performance opportunities (e.g., marching band, jazz band) throughout the year.

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 or music experience is required for this course. Students will learn basic piano techniques such as scales and chords. By the end of the course, the students will be able to harmonize basic melodies and perform simple, popular tunes.

PIANO LABORATORY II (05107E5022)

Grades 9-12 5 credits

Prerequisite: 75 or higher in Piano Lab I **OR** music teacher recommendation

This course is for intermediate piano students who want to continue their studies. Students will continue to develop their musical skills while performing a wider variety of music.

HARMONY I (05113E2512)

Grades 9-12 2.5 credits

Prerequisite: Instrumental or Vocal Training **AND** music teacher recommendation

Students will strengthen their knowledge 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: 80 or higher in Harmony I **OR** 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: 80 or higher in Harmony I and II **OR** music teacher recommendation

This course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music. These abilities will be developed by listening to, reading, writing, analyzing, and performing a wide variety of music. Historical periods, genres, and styles include Baroque, Classical, Romantic, 19th and 20th Century, and Contemporary (e.g., World Music, Jazz, Rock, Pop); both instrumental and vocal music are represented. This course provides an excellent foundation for students who plan to study music in college or pursue a career in music. This college-level course provides music students with an opportunity to earn college credits by receiving a qualifying score on their exam. For more information, please visit, https://apstudents.collegeboard.org/courses/ap-music-theory. *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. Students will explore genres such as Medieval, Baroque, Classical, Romantic, 21st Century, Jazz, Rock, Modern Pop music, and Musical Theatre. Students will also learn about music composition and music technology.

DEVELOPMENT OF MUSIC II (05116E2522)

Grades 9-12 2.5 credits

Prerequisite: 75 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. This course focuses on compositional techniques, score reading, stylistically tendencies, and musical form. Students will also evaluate how notable composers and musical innovations contributed to various musical styles.

JAZZ IMPROVISATION (05105E2511)

Grades 9-12 2.5 credits

Prerequisite: Instrumental Training

Band students will have the opportunity to extend their musicianship by focusing on creating and composing music. Students will compose pieces and accompaniments and explore diverse styles of 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 define what type of

music serves the project best.

SCIENCE

In today's dynamic landscape, driven by advancements in technology, scientific breakthroughs, and global interconnectedness, the skill sets required for societal contribution are rapidly evolving. Science education offers a compelling platform for cultivating essential future ready skills like critical thinking, problem-solving, information literacy, and collaborative learning. By actively engaging students in 3-dimensional learning, utilizing the New Jersey Student Learning Standards for Science (NJSLS-S), students can take ownership of their learning and prepare them for active participation in a constantly transforming world. The three dimensions of science learning are described below:

- ***Crosscutting Concepts*** help students explore connections across the four domains of science, including Physical Science, Life Science, Earth and Space Science, and Engineering Design.
- ***Disciplinary Core Ideas*** are the key ideas in science that have broad importance within or across multiple science or engineering disciplines.
- ***Science and Engineering Practices*** describe what scientists do to investigate the natural world and what engineers do to design and build systems. The practices better explain and extend what is meant by "inquiry" in science and the range of cognitive, social, and physical practices that it requires.

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 pathways for students are shown in the table 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 ***High School Science Pathways*** for the progression of science courses.

High School Science Pathways

Pathway Option	9th Grade	10th Grade	11th Grade	12th Grade
1	Environmental Science A/B	Biology A/B	Chemistry A/B ***or*** Anatomy & Physiology ***or*** Marine Biology	Physics A ***or*** AP Environmental Science ***or*** AP Biology ***or*** AP Chemistry ***or*** Genetics, Forensics & Biotechnology ***or*** Neuroscience & Society
2	Biology A	Chemistry B/A/H ***or*** Anatomy & Physiology ***or*** Marine Biology ***or*** Environmental Science	Physics A/H ***or*** AP Environmental Science ***or*** AP Biology ***or*** AP Chemistry ***or*** Genetics, Forensics & Biotechnology	AP Physics ***or*** Neuroscience & Society ***or*** Introduction to Biological & Organic Molecules
3	Biology H	Chemistry A/H ***or*** Anatomy & Physiology ***or*** Marine Biology ***or*** Environmental Science	Physics A/H ***or*** AP Environmental Science ***or*** AP Biology ***or*** AP Chemistry ***or*** Genetics, Forensics & Biotechnology	AP Physics ***or*** Neuroscience & Society ***or*** Introduction to Biological & Organic Molecules

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

Grade 9 5 credits

Prerequisites: Environmental Science B: grade of 74 or lower in Grade 8 Science
Environmental Science A: grade of 75 or higher in Grade 8 Science

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 and Engineering practices including defining problems, and developing solutions.

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

Grades 9-12 5 Credits

Mathematics Prerequisites: Biology B: completion of Algebra 1
Biology A: concurrent enrollment in Geometry
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

Prerequisites: Completion of Biology (B, A or H)

and

Mathematics: 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

Prerequisites: Completion of Biology (B, A or H)

and

Mathematics: 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. 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 with a grade of 94% or higher
Completion of Biology H with a grade of 84% or higher

and Completion of Chemistry (B, A, or H)

Mathematics: Completion of Algebra (B, A, or H)

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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-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
and Completion of Chemistry H with a grade of 84% or higher
Mathematics: Completion or concurrent enrollment 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-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
and Completion of Physics H with a grade of 84% or higher
Mathematics: Concurrent enrollment 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;
- Circular motion and gravitation;
- Energy & Momentum;
- Simple harmonic motion, torque and rotational motion;
- Electric charge, circuits, electric force, field, and potential;
- Mechanical waves and sound;
- Fluids & thermodynamics;
- Magnetism and electromagnetic induction;
- Geometric and physical optics;
- Quantum, atomic, and nuclear physics

This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate the foundational physics principles and apply the science practices. Inquiry-based laboratory experiences provide opportunities for students to engage in the seven science practices as they design plans for experiments, make predictions, collect and analyze data, apply mathematical routines, develop explanations, and communicate about their work. AP Physics I & II provides excellent preparation for the Advanced Placement examination in Physics I and Physics II. For more information, please refer to: *AP Physics 1: https://apstudents.collegeboard.org/courses/ap-physics-1-algebra-based and AP Physics 2: https://apstudents.collegeboard.org/courses/ap-physics-2-algebra-based. Students enrolled in this course are required to sit for the Advanced Placement Exam.*

ANATOMY AND PHYSIOLOGY (03053E5011)

Grades 10-12 5 credits

Prerequisites: Completion of Biology (B, A or H) with a grade of 84% or higher

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.

MARINE BIOLOGY (03005E5011)

Grades 10-12 5 credits

Prerequisites: Completion of Biology (B, A, or H) 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.

INTRODUCTION TO BIOLOGICAL AND ORGANIC MOLECULES (03103E2511)

Grades 11-12 2.5 credits

Prerequisites: Completion of Chemistry H with a grade of 84% or higher, Chemistry A with a grade of 90% or higher, Completion or concurrent enrollment in AP Chemistry is preferred

This course is designed to provide a fundamental overview of biological and carbon-based molecules 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 biological molecules in living systems. Laboratory sessions introduce basic and safe skills and techniques as well as advanced research techniques. **This course does not meet the 3-year science requirement.**

NEUROSCIENCE AND SOCIETY (03063E2511)

Grades 11-12 2.5 credits

Prerequisites: Completion of Biology (B, A, or H) and Chemistry (B, A, or H)

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.

GENETICS, FORENSICS & BIOTECHNOLOGY (03059E5011)

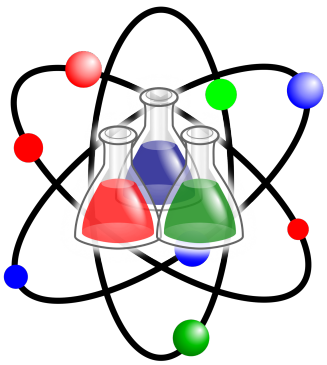
Grades 11-12 5 credits

Prerequisites: Completion of Biology and Chemistry A with a grade of 94% or higher
Completion of Biology and Chemistry H 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.



SOCIAL STUDIES

Social Studies education provides learners with the knowledge, skills, attitudes, and perspectives needed to become active, informed, and contributing members of local, state, national, and global communities. Students in these courses will explore historical content and deepen their understanding of concepts that will enable them to think critically and systematically about local, regional, national, and global issues. These courses will also foster global awareness, social responsibility, and civics-mindedness.

REQUIRED COURSES

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

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: 84% 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: 84% or higher in U.S. History II Honors or 90% or higher in U.S. History IIA **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 10-12 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 10-12 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 9-12 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.

CURRENT EVENTS (04064E2511)
Grades 10-12 2.5 credits
No prerequisite
Throughout this semester-long exploration, students will delve into an array of current events, encompassing local, national and international matters, fostering critical thinking, informed analysis, and a deeper understanding of the issues shaping our societies. Students will examine a diverse range of topics spanning politics, economics, environmental concerns, social justice movements, global conflicts, technological advancements, and cultural shifts.

MEDIEVAL HISTORY (04059E2511)
Grades 9-12 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
No prerequisite
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.

GOVERNMENT AND LAW RELATED EXPERIENCES (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 Government and Law Related Experiences is suggested for students considering a career in law, government services, or related fields as well as those interested in engaging in community affairs. Volunteer hours are required. Students are admitted through a selection process and teacher recommendation.

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 divided 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 college partnership with Kean University, 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.

VOLUNTEER INTERNSHIP PROGRAM (VIP) (22998E5011) (22998E2511)

Grade 12 2.5 credits per semester

Prerequisite: Teacher Recommendation AND application process

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: 84% 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. F*or more information, please refer to: https://apstudents.collegeboard.org/courses/ap-united-states-history.

AP UNITED STATES GOVERNMENT AND POLITICS (04157X5011)

Grade 11-12 5 credits

Prerequisite: 84% 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-united-states-government-and-politics. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

AP EUROPEAN HISTORY (04056X5011)

Grades 11-12 5 credits

Prerequisite: 84% 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-european-history. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

AP PSYCHOLOGY (04256X5011)

Grades 11-12 5 credits

Prerequisite: 84% or higher in an Honors history course or 90% or higher in "A" level history course **AND** teacher recommendation. While not required, students are strongly 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. Students will learn to analyze bias, evaluate claims and evidence, and effectively communicate ideas. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-psychology. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

AP WORLD HISTORY: MODERN (04067X5011)

Grades 11-12 5 credits

Prerequisite: 84% or higher in an Honors history course or 90% or higher in "A" level history course AND teacher recommendation.

The AP World History: Modern course provides students the opportunity to study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. Students will analyze primary and secondary texts, visual sources, and other historical evidence, and write essays expressing historical arguments. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-world-history-modern. Students enrolled in this course are required to sit for the Advanced Placement exam.

APPLIED TECHNOLOGY

Technology has ushered in innovative changes in all areas of life, from interpersonal communication, economy, entertainment, and most importantly education. It seems that today, more than ever, students are faced with changes that not only fundamentally alter the way they learn, but their everyday life as well. It is simply impossible to ignore the remarkable impact that modern technologies have on our students. Students now grow up with mobile devices, laptops, tablets, and modern digital systems, so they have long been ready for the modernization of their education. Therefore, it is important that students learn to harness all the potential of modern society while still at school. Courses in the Applied Technology Education department allow for students to explore many potential 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/university level.

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. This will provide 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.

INNOVATION AND DESIGN (21054H5011) HONORS

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 "student-driven" course is structured around a previously introduced theme the student is interested in exploring in greater depth. It is an opportunity 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 (21009E5022)*

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.

GRAPHIC ARTS I (11154E5012)*

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.

GRAPHIC ARTS II (11154E5022)*

Grades 10-12 5 credits

Prerequisite: 85% or higher in Graphic Arts I AND Teacher Recommendation

This course is designed for students wishing to continue their studies from Graphic Design I. They will build on typographic, compositional and digital imaging skills to produce portfolio quality work. Students will continue to use the latest industry standard software (Adobe Apps: Photoshop, After Effects and Illustrator) as well as traditional fine arts mediums to solve a variety of sophisticated graphic design problems. Final projects will range from 2D posters, motion graphics and prints to artist book design. This course creates a foundation for an art school admission portfolio relating to Graphic Design.

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 Adobe 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 their 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/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 their 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) HONORS

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) HONORS

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 their 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).*

THEATRE ARTS

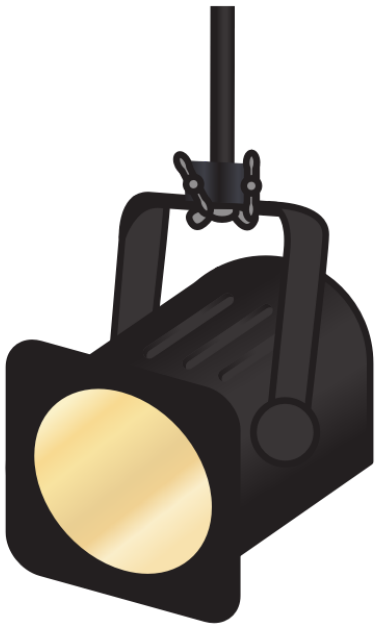
The Theatre Arts course is offered to students in grades 9 through 12. The course is designed to develop students' artistic thinking, creative expression, and theatrical skills. Students will learn that theatre artists, through a shared creative experience with an audience, present stories, ideas, and envisioned worlds to explore the human experience and convey meaning. Students will learn how theatre influences our understanding of and responses to the world. For more information, contact the Supervisor of the Arts.

INTRODUCTION TO THEATRE ARTS (05052E5011)

Grades 9-12 5 Credits

No Prerequisite

This course will provide students with opportunities to explore various aspects of theatre including performance, production, and history. Students will develop performance skills through improvisation, character development (using the body and voice), and scene work. Students will also experience playwriting, directing, theatrical design and technical theatre (e.g., lighting, sound, costumes, sets, and props). Students will learn to discuss, analyze, and evaluate theatre by examining several genres and styles, including musical theatre. This course exemplifies cross-curricular learning.



WORLD LANGUAGES

World language education provides our students with essential language skills and cultural understandings in languages other than English necessary to communicate in a global and culturally diverse world. Students that are enrolled in a World Language course will learn to communicate through the development of four skills: listening, speaking, reading, and writing. In addition to building communicative skills, the students will gain information about the civilization, culture, and customs of the people whose language they are studying.

HIGH SCHOOL WORLD LANGUAGE PLACEMENT

Students who are confident in their reading, listening, writing, and speaking skills in one of our offered world language courses and are interested in placing in a higher level should speak to their world language teacher and guidance counselor. To be placed in a higher level, students must complete a placement assessment from the office of curriculum that tests all four language skills. They should also seek a recommendation from their world language teacher and/or guidance counselor. After the evaluation, the most appropriate placement will be determined for each student based on course availability and student scheduling priority.

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

This course builds upon the skills learned in French 1 (reading, writing, listening and speaking), while continuing to stress the ability to understand and to speak the language and to learn the culture of the people. Students will continue developing proficiency in these four skills while enhancing their knowledge of French-speaking cultures. Additional 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 acquired in levels 1 and 2. This is done by means of more intense cultural readings and discussion of these readings in the target 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. Fluency in spoken French is emphasized through thematic conversations.

ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE (24114X5011)

Grade 12 5 credits

Prerequisite: 84 % or higher in French IV **and** Teacher recommendation

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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-french-language-and-culture. *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 the culture, geography, and social customs of German-speaking countries continue to be examined.

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 literature 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 LANGUAGE AND CULTURE (24264X5011)

Grade 12 5 credits

Prerequisite: Teacher recommendation **and** an 84% or higher in German 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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-german-language-and-culture. *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 LANGUAGE AND CULTURE (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. For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-italian-language-and-culture. *Students enrolled in this course are required to sit for the Advanced Placement exam.*

CONVERSATIONAL SPANISH (24059G5011)
Grade 9 5 credits
No prerequisite: Administrative Placement
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.

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 the culture of Spanish-speaking countries.

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 LANGUAGE AND CULTURE (24064X5011)

Grade 12 5 credits

Prerequisite: 84% or higher in Spanish IV **and** teacher recommendation

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.* For more information, please refer to: https://apstudents.collegeboard.org/courses/ap-spanish-language-and-culture.

Spanish Dual Enrollment

William Paterson University and the Hamilton Township School District have initiated a dual enrollment program to offer eligible students access to intermediate-level courses in Spanish and give them a jump-start on earning college credits (while earning high school credit).

Students who complete the courses will have their credits recorded on an official William Paterson University transcript. In addition, upon entry to the dual enrollment program, Hamilton Township School District students are conditionally admitted to William Paterson pending successful completion of the dual enrollment course with a grade of C or better, and attaining a high school diploma. Students who enroll at the University may apply their credits toward a major in Spanish or toward the world language requirement.

Students enrolled in Spanish 3, 4, or AP have an opportunity to enroll in the Dual Enrollment Program. There is a tuition fee to William Paterson University and students enrolled would be responsible to complete additional assignments provided by the University. For more information please contact the Supervisor of World Language.

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

What is the Seal of Biliteracy?

The New Jersey State Seal of Biliteracy is an award given by the New Jersey Department of Education (NJDOE) in recognition of students who have studied and attained proficiency in at least one language in addition to English by high school graduation. The NJDOE, pursuant to P.L. 2015, c. 303 enacted by the Senate and General Assembly of the State of New Jersey, established the State Seal of Biliteracy program in 2016 to help students recognize the value and the tangible benefits of bilingualism. Since its inception, a total 39,008 Seals of Biliteracy have been awarded. This designation on a student's high school diploma also provides employers and universities with a method of identifying bilingual candidates, students with 21st century skills, and those who have prioritized the study of other languages and cultures. Moreover, the State Seal of Biliteracy emphasizes the importance of both bilingualism, which facilitates improved communication and boosts the local economy, and cultural understanding, which promotes social acceptance.

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.

Juniors and Seniors in our district are eligible to take a test to meet one of the requirements for the Seal of Biliteracy in the month of January. If you qualify, you'll receive recognition from both the district and the state of New Jersey in June of your graduating year.

To learn more about the Seal of Biliteracy and eligibility requirements, please visit this link: https://www.nj.gov/education/standards/worldlang/SealofBiliteracy.shtml

MERCER COUNTY TECHNICAL SCHOOLS

Assunpink Center	Admissions & Career Prep	Arthur R. Sypek Center
1085 Old Trenton Road	MCCC West Windsor Campus	129 Bull Run Road
Trenton, New Jersey 08690	1200 Old Trenton Road	Pennington, New Jersey 08534
T:609.586.5144	Trenton, New Jersey 08690	T: 609.737.9785
F:609.586.1709	T:609.570.3400	F: 609.737.3951
	F:609.586.4985	

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 preparing for careers 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.

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 https://www.mcts.edu/shared-time-programs/

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)

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

BUILDING CONSTRUCTION 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 (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 (HVACR) Assunpink Center (17056E12) (17056E22)

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

MEDICAL OFFICE ASSISTANT Assunpink Center

PRE-NURSING Assunpink Center

Please contact your child's school counselor for further assistance.

MCCC CAREER PREP PROGRAMS

ABOUT CAREER PREP

Career Prep is a unique opportunity for 12th graders (year long commitment) 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 DESCRIPTION

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

AVIATION - 12 CREDITS

This program gives students a strong foundation in the aviation profession, including history, terminology, and current trends in the industry. Students will be prepared to apply technical knowledge and skills to the flying and/or navigation of various aircraft, as well as technical knowledge of different facets of the industry. Content areas include Principles of Flight, Aircraft Design, Navigation and Communication, Weather and Environmental Science, Airway Safety, Flight Crew Operations, and the Impact of the Aerospace Age. By continuing this program, costs could range from $24,000 to $36,000.

- AVI 101 - Aerospace Development – 3 CREDITS
- CMN 111 - Speech: Human Communication – 3 CREDITS
- AVI 102 - Aviation Transportation – 3 CREDITS
- SOC 101 - Introduction to Sociology – 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
- CSB 100 - College Success and Wellness for Business – 2 CREDITS
- ACC 111 - Principles of Financial Accounting – 4 CREDITS
- BUS 107 – Business Law I – 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 – 11 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 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 – 12 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 164 – Principles of Coaching – 3 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 – 11 CREDITS

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

- 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 204 – Hospitality Marketing – 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 120 – Windows Desktop Operating System Administration – 3 CREDITS
- NET 104 – Fundamentals of Computer Networks – 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 227 - Structural Steel Design – 3 CREDITS
- CIV 229 – Mechanics of Materials – 4 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

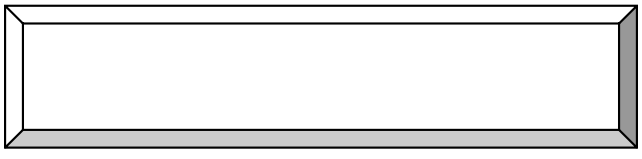
VISUAL ARTS - 12 CREDITS

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.

Note: Transfer of credits on the high school transcript is equivalent to 2.5 or 5.0 credits.



PROFESSIONAL CERTIFICATIONS

Industry Certifications

In preparation for exciting careers, students earn valuable industry certifications.

Auto CAD
Architectural/Engineering Design

Automated External Defibrillator (AED), American Heart Association
- Health Occupations
- Pre-Nursing
- Medical Assistant

Cardiopulmonary Resuscitation (CPR), American Heart Association
- Health Occupations
- Health Science Academy
- Pre-Nursing
- Medical Assistant

Microsoft Office Specialist
- Business 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

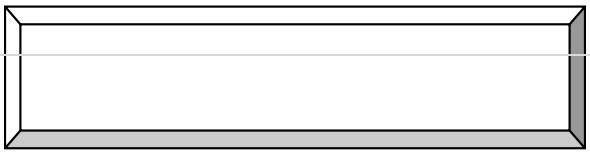
PrintEd, Graphic Arts Education and Research Foundation (GAERF)
- Graphic Arts Technology

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.



HEALTH SCIENCE ACADEMY

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.

ACADEMY OF CULINARY ARTS

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
129 Bull Run Road, Pennington, NJ 08534

609.737.9785 (Main)
609.438.0109 (Admissions)

Please contact your child's school counselor for further assistance.

STEM ACADEMY

ABOUT THE STEM ACADEMY

Science Technology Engineering and Math partnership with Mercer County Community College

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
Trenton, NJ 08690

609.586.5144 (Main)
609.570.3400 (Admissions)

Please contact your child's school counselor for further assistance.

GRADE 9	GRADE 10
GRADE 11	GRADE 12