

TOMS RIVER REGIONAL SCHOOL DISTRICT



HIGH SCHOOL COURSE SELECTION GUIDE 2019-2020

TOMS RIVER REGIONAL SCHOOLS BOARD OF EDUCATION

Janet Bell
Russell Corby
Michael Horgan
Jennifer Howe
Daniel Leonard
Joe Nardini
Anna Polozzo
Ginny Rhine
Michele Williams
Wendy Saxton
Board Secretary

ADMINISTRATION

David M. Healy
William J. Doering
Debra L. McKenna
Marc A. Natanagara, Ed.D.
James Ricotta, Jr.
Patrick Thomas
Edward Keller
Michael Citta
Norma V. DeNoia
Estee Mailot, Ed.D
John H. Green

Superintendent of Schools
Business Administrator
Assistant Superintendent
Assistant Superintendent
Assistant Superintendent
Principal, Toms River High School East
Principal, Toms River High School North
Principal, Toms River High School South
Director of Curriculum 6-12
Director of Funded Programs/District Test Coordinator
Director of Student Services – High School Level

MISSION STATEMENT

“Toms River Regional Schools is a community of dedicated students, professional staff, and supportive community members. Together we are committed to providing an innovative and rigorous educational experience that aligns with and exceeds New Jersey Student Learning Standards, respects the dignity and safety of every person in the school community, recognizes and nurtures the unique talents, interests, and experiences of each individual develops students into lifelong learners who are socially responsible, confident, value diversity, and are able to adapt to present and future challenges of a complex world.”

TABLE OF CONTENTS

1. Graduation Requirements Summary	Page 4
2. State Graduation Requirements Schedule	Page 5
3. Testing Graduation Requirements	Page 5
4. Curriculum Requirements	Page 6
5. Pathways To Graduation (Option II)	Page 8
6. Program Offerings	Page 9
7. College Preparatory	Page 9
8. Suggested College Bound Credit Totals	Page 9
9. Student Placement	Page 10
10. Grading Key	Page 10
11. Class Rank	Page 10
12. Grading and Weighting Scale	Page 11
13. Advanced Placement	Page 11
14. OCC College Academy	Page 12
15. Dual Enrollment	Page 12
16. Independent Study	Page 13
17. Guidance Services	Page 13
18. Non-Discrimination/Sexual Harassment Policies and Procedures	Page 14
19. Academy Course Descriptions	Page 15
20. Art Academy Sample Course Sequences	Page 17
21. STEAM Academy Sample Course Sequences	Page 18
22. Business Academy Sample Course Sequences	Page 19
23. English Language Arts Department	Page 20
24. Mathematics Department	Page 26
25. Science Department	Page 29
26. Social Studies Department	Page 33
27. World Language Department	Page 35
28. Health and Physical Education	Page 38
29. Visual and Performing Art and 21 st Century Life and Careers Chart	Page 39
30. Visual and Performing Arts Department	Page 40
31. 21 st Century Life and Careers, Career-Technical Education Department	Page 46
32. Financial, Economic, Business and Entrepreneurial Literacy Ed. Department	Page 50
33. Ocean County Vocational Technical School	Page 53
34. School Contact Information	Page 54

GRADUATION REQUIREMENTS SUMMARY

NJ State Minimum* Graduation Requirements by Content Area and Grade 9 Class.

	Course and credit requirements for all students entering grade 9 in:			
	2019-2020	2020-2021	2021-2022	2022-2023
LANGUAGE ARTS LITERACY	20 credits aligned to grade nine through twelve standards			
MATHEMATICS	15 credits including algebra I and geometry or the content equivalent * and a third year of math that builds on the concepts and skills of algebra and geometry and prepares students for college and 21 st century careers.			
SCIENCE	15 credits including at least five credits in laboratory biology/life science or the content equivalent **; an additional laboratory/inquiry-based science course including chemistry, environmental science, or physics; and a third laboratory/inquiry-based science course.			
SOCIAL STUDIES	15 credits including satisfaction of N.J.S.A. 18A:35-1 and 2; five credits in world history; and the integration of civics, economics, geography and global content in all course offerings.			
FINANCIAL, ECONOMIC, BUSINESS, AND ENTREPRENEURIAL LITERACY	2.5 credits			
HEALTH, SAFETY, AND PHYSICAL EDUCATION	3 ¾ credits in health, safety, and physical education during each year of enrollment, distributed as 150 minutes per week, as required by N.J.S.A. 18A:35-5, 7 and 8.			
VISUAL AND PERFORMING ARTS	5 credits			
WORLD LANGUAGES	5 credits or student demonstration of proficiency.			
TECHNOLOGICAL LITERACY	Consistent with the New Jersey Student Learning Standards, integrated throughout the curriculum.			
21ST CENTURY LIFE AND CAREERS, OR CAREER-TECHNICAL EDUCATION	5 credits			
TOTAL CREDITS (State Minimum)	120 ***			

- * School districts may establish course and/or credit requirements which exceed the State minimums.
- * “Content equivalent” means courses or activities that include the same or equivalent knowledge and skills as those found in traditionally titled courses which are required for high school graduation and which are aligned with the New Jersey Student Learning Standards . This content must be taught by certified teachers, may be integrated in one or more courses, may be titled differently, or may present material in an interdisciplinary or spiral format.
- * The 120 credit total is greater than the sum of the individual requirements above, to allow for student electives.

STATE GRADUATION REQUIREMENTS SCHEDULE

Subject Area	Class of 2020 Credits	Class of 2021 Credits	Class of 2022 Credits	Class of 2023 Credits
English	20	20	20	20
Health and Physical Education	20	20	20	20
Mathematics	15	15	15	15
Science	15	15	15	15
Social Studies (10 credits must be American History)	15	15	15	15
World Language	5	5	5	5
Visual and Performing Arts	5	5	5	5
Life and Careers, or Career Technical Education	5	5	5	5
Financial, Economic Business, & Entrepreneurial Literacy	2.5	2.5	2.5	2.5
Electives	17.5	17.5	17.5	17.5
TOTAL	120	120	120	120

TESTING GRADUATION REQUIREMENTS

For the classes of 2020, 2021, 2022, and 2023:

As of this publication, the New Jersey Superior Court’s December 31, 2018 decision regarding N.J.A.C. 6A:8-5.1(a)(6), 5.1(f) and 5.1(g), Standards and Assessment held that current regulations are contrary to the intent of the statute that calls for a statewide graduation exam to be administered to 11th grade pupils.

On January 10, 2019, the NJDOE filed a Motion for Partial Reconsideration to seek relief for all students in the Classes of 2019 and 2020 who met the applicable graduation assessment requirements in place as of December 30, 2018.

NJDOE will continue to provide districts and parents the most up to date information throughout this process to minimize disruptions to schools and students.

CURRICULUM REQUIREMENTS

The proficiency requirements for all courses will be set forth in writing and will be posted on-line for all students and parents at the start of all courses.

All students must carry a minimum of 30 credits per year. In addition to the above-listed curricular requirements, a student must successfully pass all State required proficiency assessments required for graduation.

When selecting your courses, please refer to the Pupil Eligibility Athletic and Other Co-Curricular Activities Policy listed below:

Fall Sports: Sophomores, Juniors and Seniors must pass 30 credits from previous school year, including summer school. All Freshmen are eligible.

Winter Sports: Sophomores, Juniors and Seniors must pass 30 credits from previous school year, including summer school. All Freshmen are eligible.

Spring Sports: Freshmen, Sophomores, Juniors and Seniors must be passing 30 credits. However, Seniors carrying less than 30 credits must be passing all courses in which they started the school year with.

PLEASE NOTE: STUDENTS DROPPING A CLASS MAY BE INELIGIBLE TO PARTICIPATE IN ATHLETICS. Please see your guidance counselor for more information.

- a. Students may receive up to 2.5 credits for Independent Study according to the Independent Study Administrative procedures. Independent Study courses do not count for student's weighted or unweighted GPA.
- b. The Board shall adopt the Ocean County Vocational Technical Schools Comprehensive Academic Documentation Package identifying mathematics, science, and personal finance (if necessary) competencies met through the vocational program.

II. Promotion (Policy 5410)

A high school student will be allowed to move to the next grade with his/her class regardless of the number of credits accumulated, but may not graduate unless all graduation requirements are met.

III. Special Education Students

In order to graduate, pupils with educational disabilities must meet all the graduation requirements established by the State Board, including minimum proficiency levels on all required state assessments, curriculum requirements, and attendance standards, unless the pupil's individualized education program (IEP) exempts the pupil from the requirements.

A pupil with educational disabilities may be exempted from passing the required state assessments and curricular requirements if the IEP sets goals and objectives that do not include the range of skills and curricular requirements. A pupil may be exempted from taking the state assessment if the IEP establishes that the pupil has not been instructed in any of the knowledge and skills tested and that the student would not be able to complete any of the types of tasks on the state assessment. An IEP that does not include the proficiencies measured by the state assessment and the curriculum generally required for graduation must include a rationale for the exemptions and the alternate proficiency assessment required for the pupil's graduation.

A pupil with educational disabilities who has not been exempted from the required state assessment proficiencies and has performed below the State minimum levels of proficiency in one or more areas shall participate in an alternate high school assessment as designated by the NJDOE.

IV. Attendance

The Board of Education has adopted an attendance policy (5200). This policy shall govern the attendance requirements necessary to accumulate credits toward graduation.

PATHWAYS TO GRADUATION

A student may meet the 120 credit requirement through one or a combination of options or pathways that follow.

I. OPTION I (Traditional Path of Studies)

A student earns credits by successful completion of all required courses.

II. OPTION II (Alternate Path)

State statute N.J.A.C. 6A:8-5.1(a)2, commonly referred to as “Option II,” permits district Boards of Education to determine, establish, and approve curricular activities or programs aimed at providing more personalized pathways to achieving the NJ Student Learning Standards. According to the NJDOE, “the purpose of Option II is to provide educational experiences that are meaningful and relevant, and that provide students with opportunities to explore and achieve at high levels.” These programs serve as an alternative to traditional high school courses and schedules, and involve in-depth structured learning experiences for acceleration, enhancement, or credit recovery. Examples are online programs, apprenticeships, capstone projects, study abroad, and accredited college courses. For independent activities, approval for Option II credit will be largely based on the development of a structured learning experience plan that includes documentation, verification, and assessments.

Students considering Option II need to follow this process:

1. Discuss their goals to develop a personalized learning plan with their guidance counselor;
2. Apply for pre-approval of the proposed activity from the Principal’s Option II Committee;
3. If approved, complete the experience with the proper documentation; and
4. Pass agreed-upon measures of progress to receive credit.

Note that:

- A. Activities/courses submitted for pre-approval will be reviewed for appropriate content, rigor, and alignment with state standards;
- B. Option II credit may be earned for a maximum of two courses in one school year (July 1-June 30);
- C. Students may not take consecutive courses in a sequence and/or subject area, except PE;
- D. Parents/Guardians are responsible for all expenses associated with Option II activities;
- E. Option II experiences will be on a pass-fail basis;
- F. Elective graduation requirements must be met before taking an elective in that area as Option II*;
- G. World Language courses must include a regularly scheduled speaking component;
- H. Science courses must include a regularly scheduled laboratory component if HS equivalent has a lab;
- I. Language Arts courses must include a regularly scheduled writing component;
- J. As per Policy 5430 and 5460, credits earned will appear on a student’s transcript, but will not be used in GPA calculation and will not count in the calculation for class rank;
- K. All Option II approvals are on a case by case basis with consideration to a student’s academic standing; and
- L. No courses taken by 8th graders over the summer following intermediate graduation will be considered Option II; such courses will not appear on their high school transcript, but may be taken with pre-approval for advancement.

*Class of 2020 Band, Orchestra and Chorus students may be considered

[Click here](#) for the Option II application packet or go to <https://tinyurl.com/TRRHScourseguide19>

PROGRAM OFFERINGS

The Toms River High Schools provide varied course offerings for students who plan to continue their education or to enter the world of work immediately following high school. With the help of their parents or guardians, teachers, and guidance counselors, students should be able to choose an educational program that is attainable, meaningful, and useful.

COLLEGE PREPARATORY

Students wishing to pursue a college preparatory program must meet certain requirements for college admission. Although entrance requirements vary from college to college, a minimum of 16 college preparatory academic units (courses) is recommended.

SUGGESTED COLLEGE-BOUND CREDIT TOTALS

<u>Subject Area</u>	<u>Credits</u>
English	20
Science	20
Mathematics	20
Social Studies (10 credits must be American History)	20
World Language	15
Visual and Performing Arts	5
PE/Health	20
Career and Consumer Family and Life Skills	5
Financial, Economic, Business, and Entrepreneurial Literacy	2.5
Electives	12.5

- These courses typically fill the required academic units for college.
- College Admission Counselors (NOCAC) strongly suggest that students maintain a rigorous academic schedule all four years of high school.
- Students should refer to "Graduation Requirements Policy" to prepare a tentative course plan for all four years of high school. Pupil eligibility policy mandates that a student be passing a minimum of 6 courses (30 credits) in order to maintain eligibility.

It is difficult to be specific about admission to colleges and universities because each has its own requirements. Certainly the more competitive the college, the more rigorous the requirements. In selecting applicants for admission, four-year colleges consider class rank, grades earned, level of difficulty of subjects studied, scores on the SAT, Scholastic Aptitude Test, and SAT Subject Tests, and/or the ACT, American College Test, recommendation of high school counselors and teachers, as well as extra-curricular involvement. Current information on individual college requirements is available through the Guidance Department. Students planning to take the SAT or ACT are strongly urged to participate in a preparation program.

PROGRAMS OF STUDY IN CTE

The Office of Career and Technical Education (CTE) defines a Program of Study as a minimum of three courses making up a progressive sequence leading to an industry-valued credential. Such credentials may be used in applying to post-secondary studies and may facilitate job placement. The district is in the process of identifying and creating such courses and sequences and student input is welcome. CTE courses also meet the 21st Century Life and Careers requirement. See your guidance counselor if interested in a certification pathway.

STUDENT PLACEMENT

The Toms River Regional School District subscribes to the philosophy that every student should be provided with an optimum opportunity to succeed in his/her educational endeavors. Therefore, students are scheduled into courses in which they may work at a level compatible with their ability level and consistent with their future plans. Placement in specific classes is determined by the following criteria:

Student Goals/Aspirations
Past Academic Performance
Teacher/Counselor Recommendations
Course Prerequisites
Standardized Test Scores

GRADING KEY A+ 97-100 A 90-96 B+ 87-89 B 80-86 C+ 77-79 C 70-76 D 65-69 Poor but Passing F Below 65-Failing P Passing W Withdrawal WF Withdrawal Failing M Medical	CLASS RANK Class rank is computed in accordance with the recommendations of the National Association of Secondary School Principals. Rank is calculated at the end of the 4 th , 6 th , 7 th and 8 th semester. The student with the highest weighted academic average is ranked number 1, the second highest is ranked number 2, etc.
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

GRADING AND WEIGHTING SCALE

As of the 2015-2016 freshman class, grade weighting will be as follows:

Grading Scale	Quality Points			
	AP	Honors	College Prep	General Studies
A+	6.0	5.5	4.5	3.5
97-100				
A	5.5	5.0	4.0	3.0
90-96				
B+	5.0	4.5	3.5	2.5
87-89				
B	4.5	4.0	3.0	2.0
80-86				
C+	4.0	3.5	2.5	1.5
77-79				
C	3.5	3.0	2.0	1.0
70-76				
D	2.5	2.0	1.0	0.0
65-69				
F	0	0	0	0
Below 65				

ADVANCED PLACEMENT COURSES

Advanced Placement courses are college-level courses designed for students who are academically advanced, self-motivated, and have a desire to be challenged. At the college's discretion, students **may** earn college credit or advanced standing as based upon the successful completion of the course and the examinations. The Advanced Placement Examination is prepared and scored by the College Board. The following courses are offered in Advanced Placement:

- 1) AP Language and Composition;
- 2) AP Literature and Composition;
- 3) AP Calculus;
- 4) AP Statistics;
- 5) AP Computer Science;
- 6) AP Biology;
- 7) AP Chemistry;
- 8) AP Environmental Science;
- 9) AP Physics;
- 10) AP United States History;
- 11) AP United States Government and Politics;
- 12) AP Art Studio;
- 13) AP Seminar (pilot for science at High School East only for 2019-2020 school year); and
- 14) AP Micro/Macroeconomics (Business Academy).

DUAL ENROLLMENT

Toms River Regional Schools - Ocean County College (TRRS-OCC) ACADEMY

Beginning with the 2019-2020 school year, Toms River Regional Schools is offering a College Academy program with the opportunity to earn high school and college credits concurrently and work towards an Associate's Degree of Liberal Arts through Ocean County College.

Academic Commitment

After applying and being approved to participate in the TRRS–OCC Academy at Toms River High School East, North and South, students may enroll in courses according to the following guidelines:

1. Only Toms River High School East, North and South students who are in good standing may participate in the program. Good academic standing is defined as students who possess at least 100 credits for seniors or 70 credits for juniors, and no grades lower than a C in that content area.
2. Students must meet the enrollment criteria as outlined by Ocean County College.
3. ***Students who enroll for a fall semester class must sign up for the corresponding spring semester class.***

For example, a student who signs up for English I (ENG 151) in the fall semester must also enroll to take English II (ENG 152) in the spring semester. Students must enroll in both semesters of a given subject. The following course combinations are available:

- AP Language and Composition (ENG 151 and ENG 152)
- Precalculus Honors (MATH 191 and MATH 192)
- Introduction to Computer Science, Programming, and Applications CP (TBD)
- Introduction to Computer Science, Programming, and Applications H (TBD)
- STEAM Biology (Biol 1610)
- Marine Science II (Biol 265)

Financial Commitment

Students and parents will be responsible for making tuition payments directly to Ocean County College. Students are not eligible for financial aid due to the reduced tuition. Failure to make tuition payments will result in the removal from the TRRS-OCC Academy Program.

The JumpStart tuition rate will apply to all classes in this program, which in 2018 was \$92.50 per credit (OCC classes = 3 credits), excluding additional course and registration fees. For updated information, go to https://www.ocean.edu/admission_and_aid/tuition-and-fees.

Scholarship opportunities may be available to families demonstrating financial hardship. See your guidance counselor for more information.

Attendance

The OCC/TRRS attendance policy allows for 10 absences in any semester course. An 11th absence results in withdrawal of OCC credit (no refund from OCC.) The teacher and administration will evaluate special circumstances. Lates are not permitted and may be treated as absences.

Grading

Courses taken as a part of the TRRS-OCC Academy Program will be highlighted on students' high school transcripts. In addition, please note the following:

- No grades will be issued from Ocean County College for the 1st and 3rd marking periods because OCC only issues final grades at the end of each semester. However, students will receive grades from the high school for all four marking periods.
- Students will be responsible for sending an official transcript from OCC to the colleges to which they are applying by contacting Ocean County College Registration and Records Office at 732-255-0304.
- Grades earned from this program will appear on students' high school and college transcripts.
- **Not all colleges accept Ocean County College credits.** Students and parents are encouraged to investigate credit transfer options to other institutions of higher learning.

Application to TRRS-OCC Academy

Students will need to complete and submit an online application to participate in the TRRS-OCC Academy. Please see your Guidance Office for more information or check the Curriculum tab on the www.trschools.com site.

Toms River Regional Schools - State University of Albany (TRRS-SUNY)

Beginning in Grade 10, students have the opportunity to sign up for Authentic Science Research (ASR). This three-year program gives students the unique opportunity to engage in original research under the ASR Director at each high school. Students who successfully complete the program are eligible to earn 12 credits through SUNY. See course description under "Science Electives."

INDEPENDENT STUDY

Independent Study offers students the opportunity to design a program of study to supplement our high school program. Students are provided the opportunity to enroll in an Independent Study program at the eleventh and/or twelfth grade levels. The program must be directly related to a course in which the student is enrolled or has successfully completed. Every program must be administratively approved and carries 2½ credits per school year. Independent Study courses are not computed in class rank. Applications are available in the guidance office.

GUIDANCE SERVICES

The Guidance Department is organized to offer support and to provide information to students and their parents throughout the four years of high school. Students are assigned a counselor when they enter high school. Conferences are held with each student to discuss educational and vocational plans. Students with academic and personal problems are assisted by the counselors and referred to appropriate agencies as necessary. Parents are encouraged to attend all guidance programs.

NONDISCRIMINATION/SEXUAL HARASSMENT POLICIES AND PROCEDURES

Federal Law prohibits educational program and employment discrimination on the basis of gender (Title IX of the 1972 Educational Amendments); handicap (Section 504 of the Rehabilitation Act of 1973); age (Age Discrimination In Employment Act of 1967); and race, color, religion, gender, or national origin (Title VII of the Civil Rights Act of 1964). New Jersey Title 6 prohibits educational program and employment practices discrimination on the basis of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socioeconomic status.

The Toms River Regional Board of Education does not discriminate on the basis of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation (real or perceived), gender, religion, disability or socioeconomic status in its educational programs, vocational programs or employment practices in accordance with the applicable statutes.

In addition, the Board of Education is committed to maintaining an instructional and working environment that is free from harassment of any kind. It shall be a violation of this policy for students to harass other students, or for students to harass staff members, or for staff members to harass students through conduct or communications of a sexual nature.

Sexual harassment is a violation of state and federal laws. It has been defined under the Equal Employment Opportunity Commission as unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature.

Findings of sexual harassment **will** result in disciplinary action which may include parental conference, suspension (either in- or out-of-school), and/or a report with the Toms River Police Department and any other disciplinary action deemed necessary and appropriate by the Superintendent of Schools/Board of Education.

The Toms River Regional Board of Education has non-discrimination/affirmative action policies and a grievance procedure whereby any student, parent, teacher, administrator, or member of the community who has a grievance (a complaint of discrimination or harassment) may present such grievance for consideration. These policies and grievance procedures are available in the Office of the Superintendent of Schools, in the Principal's Office at each school, and in the district Affirmative Action Office.

Inquiries regarding compliance with nondiscrimination laws may be directed to (1) Wendy Rozwadowski-Dravis, District Affirmative Action Officer, West Dover Elementary, 50 Blue Jay Dr., Toms River, NJ 08755, Phone (732) 505-5920; (2) Kelly Kernasovic, District Affirmative Action Officer, Washington Street Elementary, 500 West Earl Court, Toms River, NJ 08753, (732) 505-5910; (3) Norma DeNoia, 504 Coordinator, 1144 Hooper Avenue, Toms River, NJ 08753, Phone (732) 505-5526; (4) U.S. Department of Education for Civil Rights, Region II (for Federal laws), 32 Old Slip, 26th Floor, New York, NY 10005-2500, Phone (646) 428-3900; and (5) NJ Division of Civil Rights, 140 E. Front Street, 6th Floor, P.O. Box 090, Trenton, NJ 08625-0090, Phone (609) 292-4605.

HIGH SCHOOL CAREER ACADEMIES

Toms River Regional is proud to offer specialized Career Academies--“schools within schools”--at each of its three high schools. Each academy has a unique curriculum that provides students with access to challenging experiences, rigorous career-oriented coursework, and exclusive resources, many of which new to the region and the state.



At High School North, the **Arts Academy** builds on a strong culture of arts-infused education, leading students to careers in the visual, digital, and performing arts, the latter of which is further subdivided into music, theatre, and video production. Students will learn not only art techniques and perspectives and connect with the regional arts community, but discover ways to effectively apply creative skills to other disciplines, a mindset much in demand in today’s job market.



High School South is host to the district **Business Academy**, which offers Schools of Finance, Entrepreneurship, and Real Estate. High-level, high-earning jobs await those with 21st-century skills in economics, finance, marketing, real estate, and entrepreneurship. This academy is a launching pad for students interested in the Wall Street big leagues, selling and marketing products and services, or starting their own business. Classes are housed in our Business & Real Estate Incubator, a 21st century learning space that places state of the art presentation tools and field-specific information technology at the fingertips of our Business Academy students each day. Students will learn through authentic business experiences including real-world problem solving tasks, relevant field trips, and monthly interaction with guest presenters from various business industry settings. Much like a college environment, academy students will take the majority of their courses with the general population of the high schools and be bussed to their full time academy. Each year students will be required to take certain courses in the “major” from the academy course offerings.



The **STEAM Academy** (Science, Technology, Engineering, Art, and Math) at High School East provides courses of study in Engineering, Biomedicine, and Environmental Sustainability. The STEAM academy focuses on careers in marine science (in the newly renovated Poseidon Lab in downtown TR), environmental studies, medicine, engineering, and advanced manufacturing, to name a few. Components of the School of Biomedicine are supported by a partnership with RWJ Barnabas Health.

Academy Admission

Eighth grade students must apply for admission into the Academies and meet certain eligibility requirements. Acceptance is based on multiple criteria including test scores, grades, teacher recommendations, an entrance exam (Business and STEAM Academies) or audition/portfolio of artwork (Arts Academy), and a performance task. For more information, go to www.trschools.com/curriculum/careeracademies.

Courses designed for the Academy programs may be available to non-academy students where space allows and any prerequisites have been met.

Career Academy Program Requirements

Students applying for any of our three academies understand that there are increased academic demands, higher performance standards, and an expectation that the student can manage, with staff support, the workload, time management, and additional responsibilities. Students will have progress evaluations in the middle of each marking period, coordinated by the student's counselor, to make sure that he/she is meeting the minimum average required for each program.

1. Students must maintain a B average in each academy course and a B+ average overall as per the academy contract. If the student falls below B+ at the mid-point or at the end of a marking period, an individualized improvement plan will be developed. Upon completion and attaining the B+ grade, the student will have satisfied the Academy requirement. The second time that a student earns a status of unacceptable in the same course they will be excused from the academy but will remain in the same academy course for the remainder of that school year.
2. If the student does not maintain a B in each academy course after finals, he/she will be removed from the Academy. The students must receive a grade of B to fulfill the academy requirement. If a student does not meet the final grade of B, he/she may move onto the next course sequence as a non-academy student.
3. If the student is unsuccessful in fulfilling the academic requirement they will be excused from the academy and placed in the appropriate academic courses.
4. Any behavior that is dangerous or unacceptable, such as in a lab situation, dance space, field trip, or another educational environment, where such behavior could result in the harm of the student or another student, may necessitate the removal of the student from the academy.
5. Students involved in internship experiences must abide by the TRRS Code of Conduct and meet all guidelines and expectations of the host facility.

Academy participation is a four year commitment that will likely require time beyond the school day. The programs of study include experiential, supervised, and in-depth structured learning experiences aligned with the New Jersey Student Learning Standards that are designed to offer students opportunities to more fully explore career interests. Rigorous activities will be integrated into the curriculum that provide students with the opportunity to demonstrate and apply a high level of academic and technical skills, and develop personal, academic and career goals. There may be online components, seminars, capstone projects, and opportunities to earn industry valued credentials and college credits. Students should consider all information here before deciding to apply to an academy.

(Please note: deadlines as listed per website)

Arts Academy Sample Course Sequences

**This is a possible course sequence. Courses in BOLD are new courses not currently offered.
Sequence and courses are subject to change.**

Content Area	Grade 9	Grade 10	Grade 11	Grade 12
English/ Language Arts	English I (H/CP)	English II (AH/H/CP)	English III (H/CP), AP Lang & Comp or AP Lit & Comp	English IV (H, CP) World Lit or AP Lit & Comp or AP Lang & Comp
Social Studies (10 credits must be American)	World Civilization (H/CP)	Amer Hist 1 (H/CP/AH)	Amer Hist II (H/CP/AH) AP US Gov & Politics Or AP US History	2.5 Finance Option 2/2.5 Careers
Health/PE	Health/PE	Drivers Ed/PE	Health/PE or Option 2	Health/PE or Option 2
Math - <i>Visual and Perf Arts Strand</i>	Geometry or Algebra I	Geometry or Algebra I	Algebra II or Pre-Calc	option
Math - <i>Digital Arts Strand</i>	Geometry	Algebra II, AP Computer Sci Principles	Pre-Calc, AP Computer Science	Calculus
Science	Earth Science or Biology	Biology or Chemistry	Chemistry or Physics	option
<i>Visual Arts</i>	Advanced Arts I	Advanced Arts II	Advanced Arts III Studio Art III	AP Studio Art Senior Portfolio Internship
<i>Performing Arts</i>	Theatre Arts Piano I Performing Ensemble (Music Strand)	Theatre Arts II Piano II or Interior and Fashion Design Technology Performing Ensemble (Music Strand)	Music Theory I Composition (Piano 3) Dance III Performing Ensemble (Music Strand)	Music Theory II Integrated Music Technology Dance IV Performing Ensemble (Music Strand)
<i>Digital Arts</i>	Intro to Digital Arts	Intro to Computer Graphics & Design; Architectural Design Technology	Advanced Computer Graphics and Design and/or Creative Design Technology	Game and App Design
Required or Recommended Electives	Multimedia (2.5 cred); Engineering and Design Tech	Creative Writing and Speech (elective) World Language		Community Action Prog Cooperative Education Internship Humanities

STEAM Academy Sample Course Sequences

**This is a suggested course sequence. Courses in BOLD are new courses not currently offered.
Sequence and courses are subject to change.**

Content Area	Grade 9	Grade 10	Grade 11	Grade 12
English/ Language Arts	English I (H)	English II (AH/H/CP)	English III (H, CP), AP Lang & Comp or AP Lit & Comp	English IV (H, CP) or AP Lang & Comp and/or AP Lit & Comp
Social Studies	World Civilization (H)	Amer Hist 1 (H, AH)	Amer Hist II (H) Or AP US History	
Health/PE	Health/PE	Drivers Ed/PE	Health/PE or Option 2	Health/PE or Option 2
Math <i>Biomedical Strand</i>	Geometry	Algebra II	Pre-Calc and Intro to Computer Programming	Calc BC; AP Computer Science
Math <i>Engineering Strand</i> <i>Environmental</i> <i>Sustainability Strand</i>	Geometry and/or Algebra II	Algebra II or Pre-Calc	AP Calculus or Pre Calc	AP Computer Science or Calculus III (Multi Variable)
Science <i>Biomedical Strand</i>	Biology I (H)	Chemistry (H) and Honors Anatomy and Physiology	AP Biology; Hon. Physics or Forensic Science	AP Chemistry and/or Forensic Science
Science <i>Engineering Strand</i>	Biology I (H)	Chemistry (H)	AP Chemistry or Physics (H)	AP Physics
Science <i>Environmental</i> <i>Sustainability Strand</i>	Biology I (H)	Chemistry (H)	Marine Science 1/STEAM Technology Physics (H)	Marine Science 2 AP Environmental Science
Required or Recommended Electives	Hon. Intro to Computer Graphics And Design or Creative Design Technology; Technology World Language	World Language Engineering and Design Tech (H)	Hon. Architectural Design Tech or Advanced Computer Graphics and Design	Hon. Architectural Design Tech or Advanced Computer Graphics and Design
Additional Required Research Component		Authentic Science Research (3 yrs)	Authentic Science Research (3 yrs) or AP Seminar	Authentic Science Research (3 yrs) or AP Research

Business Academy Sample Course Sequences

This is a suggested course sequence. Courses in BOLD are new courses not currently offered. Sequence and courses are subject to change.

Content Area	Grade 9	Grade 10	Grade 11	Grade 12
English/ Language Arts	English I (H)	English II (H)	English II (H, AH) or AP Lang & Comp	English (H) Communications or World Lit or AP Lang & Comp Or AP Lit & Comp
Social Studies	World Civilization (H)	American Hist 1 (H, AH)	American Hist II (H) and AP US Gov & Politics Or AP US History	World Affairs
Health/PE	Health/PE	Drivers Ed/Health/PE	Health/PE or Option II	Health/PE or Option II
Math	Algebra I or Geometry	Geometry or Algebra II Intro to Computer Programming(if schedule allows)	Algebra II or Pre-Calculus or AP Computer Science (if pre-req met)	AP Statistics or Statistics (H)
Science	Environmental Earth Science (H)	Biology (H)	Chemistry (H)	Physics (H) or AP Environmental Science
School of Entrepreneurship	Marketing I (H) Marketing II (H) (½ year each)	Business Ethics (H) Financial Markets & Trading (H) (½ year each)	AP Micro/Macro Economics	AP Seminar Focus: Entrepreneurship
School of Finance	Accounting I (H) Accounting II (H) (½ year each)	Business Ethics (H) Financial Markets & Trading (H) (½ year each)	AP Micro/Macro Economics	AP Seminar Focus: Finance
School of Real Estate	Marketing I (H) Marketing II (H) (½ year each)	Business Ethics (H) Financial Markets & Trading (H) (½ year each)	AP Micro/Macro Economics	AP Seminar Focus: Real Estate
Required or recommended Electives	Creative Design and Technology World Language Visual & Performing Arts Course	Personal Finance, Political and Legal Education ; Principles of Law; World Language	AP Seminar	AP Seminar

ENGLISH LANGUAGE ARTS DEPARTMENT

COURSE DESCRIPTIONS

The English Language Arts program prepares students for college and careers through a “staircase” of increasing complexity with a focus on developing each students’ ability to read closely, write effectively, listen carefully and speak confidently. Students will develop the ability to read across all genres and to write about their reading in meaningful ways, acquiring both vocabulary enrichment and language mastery. All courses are aligned to the Common Core State Standards as well as the state of New Jersey’s curricular framework for English Language Arts. All courses integrate state and standardized testing preparation for the NJSLA and the SAT (in class and online), and the AP exams as part of the curriculum. Students are placed into courses based upon their individual needs and assessed mastery of standards. A summer reading assignment and a research paper will be required in every grade and at every level.

For English I, II, III, and IV, the following applies:

Honors: Honors English provides challenging coursework for students who are meeting or exceeding grade level standards. Students in the English Honors classes should be willing and able to meet the demands of this accelerated level, including extensive requirements for independent reading and writing. Students are challenged beyond the curriculum to examine various literary genres through a multi-disciplinary lens. Honors level students are expected to enter AP courses in their junior and senior years. Students should be self-motivated and maintain a high level of academic interest and exceptional performance.

College Prep: CP English is to prepare students for college and careers. CP students are able to meet grade level standards. CP students develop their stamina and reading comprehension skills while learning how to “read” closely and then write about those readings in meaningful ways. Students continue to grow as readers, writers, speakers and listeners in their CP courses. This level course is designed to further the students’ preparation for college. Students are expected to successfully meet the course requirements.

General Studies: General Studies provide additional support and a literacy framework for students who are not yet meeting grade level standards. The goal of a general studies course is for students to advance to the College Prep course the following year. The course focuses on developing students’ reading fluency, stamina and comprehension while studying the appropriate curriculum for their grade level. The course will also focus on student mastery of those skills needed to exhibit growth on the required State Assessments.

English I

5 Credits

Honors (1101), College Prep (2102)

Prerequisite for Honors: B Average for the year in Grade 8 English

Grade 9

English 1 provides an essential foundation in reading, writing, listening, speaking and media literacy/research skills for high school success. English I is also designed to develop a lifelong love of reading in all of our students. Students will learn how to read a variety of genres while applying close reading skills through core readings, and independent reading. Through the reading of various genres and an examination of authors’ crafts, students will produce well constructed narrative, argumentative, informative, analytical and research writings. Attention is given to functional grammar, oral and written composition, technological research, study skills, career development, as well as the acquisition of academic vocabulary through context. Literature instruction provides experience with drama, the novel, poetry, short stories and non-fiction. Supplemental reading selections vary with each class. Essays and projects, (the number to be determined by the teacher), a summer reading assignment, and a research paper are required. The computer lab, located in the Media Center, and Chromebooks in the classroom, will be used for various writing and research skills practice when applicable and available. NJSLA, PSAT, and SAT preparation, (through in-class instruction/assessment and online), will also be part of this course.

English II **5 Credits**
Advanced Honors (1110)
Prerequisite: B in English I Honors
Grade 10
English II advanced honors is open to college-bound sophomores who plan to enroll in the AP Literature and Composition and/or the AP Language and Composition courses in Grades 11 and 12. This course will better prepare students for analytical reading, writing and discussion skills necessary for success in both AP English courses. Major course components include a strong American literature concentration, in both fiction and non-fiction, with possible additional selections from European and World Literature. Close reading will further develop college-level research and writing skills as found in college composition. A summer reading assignment, written literary analysis and a research paper are required. This course will also include specific instruction on preparing students for the NJSLA assessment and SAT preparation in class and through the SAT online program.

English II **5 Credits**
Honors (1111), College Prep (2112), General Studies (3113)
Prerequisite: English I
Prerequisite for Honors: C Average for the year in English I Honors or B+ Average in CP
Grade 10
English II covers the areas of reading, writing, speaking, listening, and critical thinking, but stresses reading and composition skills. Grammar is taught functionally and emanates from the composition work, while the bulk of composition comes from the literature being taught. The study of British and American literature continues the introduction that began in grade nine and includes more challenging selections in the various genres including non-fiction and informational texts. Supplemental reading selections vary with each class. Essays and projects (the number to be determined by the individual teacher), a summer reading assignment and a research paper are required. Proficiency in writing and reading comprehension skills, including academic vocabulary acquisition through context, speaking and listening skills, and study skills, will be emphasized in those classes where student needs and ability levels so dictate. NJSLA, PSAT, and SAT preparation (through in-class instruction/assessment and online), will also be part of this course. The computer lab, located in the Media Center, and Chromebooks in the classroom, will be used for various writing assignments and research skill practice when applicable and available.

English III **5 Credits**
Honors (1121), College Prep (2122), General Studies (3123)
Prerequisite: English II
Prerequisite for Honors: C Average for the year in English II Honors or B+ Average in CP
Grade 11
English III surveys American literature, reads challenging informational text, and improves the student's skills in writing and reading comprehension. Emphasis is placed on critical thinking, reading analysis and appreciation, extensive free reading, composition, vocabulary enrichment and oral expression. Supplemental reading selections vary with each class. Essays and projects (the number to be determined by the individual teacher), a summer reading assignment and a research paper are required. NJSLA, PSAT, and SAT preparation (through in-class instruction/assessment and online), will also be part of this course. The computer lab, located in the Media Center, and Chromebooks in the classroom, will be used to foster improved writing skills and facilitate NJSLA, PSAT, and SAT preparation.

Modern American Literature, College Prep (2124) **5 Credits**
Prerequisite: English II CP; Fulfills English III Requirement
Grade 11
This course is a college preparatory level program that fulfills the English III College Prep requirement. The course focuses on 20th Century American short stories, poetry, plays, novels, and non-fiction while additionally reinforcing writing and speaking skills, which students will need upon graduation from high school. A summer reading assignment, projects, and a research paper and book reports are required (the number to be determined by the teacher). The course will also include specific instruction on preparing students for the NJSLA, PSAT and SAT preparation in class and through the SAT online program.

English IV **5 Credits**
Honors (1131), College Prep (2132), General Studies (3133)
Prerequisite: English III
Prerequisite for Honors: C Average for the year in English III Honors or B+ Average in CP

Grade 12

English IV concentrates on all of the communication skills in conjunction with a survey of British literature and challenging informational texts. In writing and in class discussion, the techniques of critical and analytical study of literature are applied. Essays, projects or book reports (the number to be determined by the teacher), as well as a summer reading assignment and a research paper or project are required. Supplemental reading selections vary with each class. The computer lab, located in the Media Center, and Chromebooks in the classroom, will be used to assist in writing instruction, research papers, college writing and workplace readiness.

English IV World Literature **5 Credits**
Honors (1136)

Prerequisite: B in English III Honors; Fulfills English IV Requirement

Grade 12

This Honors level course has been designed for students with above-average English skills and can be taken as an alternative to English IV Honors. World Literature concentrates on all of the communication skills in conjunction with the study of World Literature and challenging informational texts. In writing and in class discussion, the techniques of critical and analytical study of literature are applied. Essays and projects (the number to be determined by the teacher), as well as a summer reading assignment and a research paper are required. Supplemental reading selections vary with each class. Students electing to take this course must have a solid foundation in language arts skills.

English IV Communications **5 Credits**
College Prep (2163)

Prerequisite: English III CP or Modern American Literature; Fulfills English IV Requirement

Grade 12

This College Prep level course centers on a study of the major areas of media including television, radio, motion pictures, magazines, and newspapers. Vocabulary enrichment, writing, reading, projects, and class discussion play major roles in the course. A research paper or project is required. The course will also develop the special career interest of students.

ENGLISH ADVANCED PLACEMENT COURSES

Advanced Placement Language and Composition ([Dual Enrollment Credit available](#)) **5 Credits**
(1161)

Prerequisite: Grade 11: B+ in English II Advanced Honors or B+ in English II Honors; Grade 12: B+ in English III Honors

Grades 11, 12

The goals of this course are equivalent to an entry-level college class and therefore, the student should demonstrate superior ability and self-motivation. This course is also designed to prepare the student for the Advanced Placement Language and Composition Examination, which he/she is expected to take in the spring. Students are required to complete a summer assignment prior to entering this class in the fall. The students will study prose written in a variety of periods, disciplines, and rhetorical contexts and they will learn how to become skilled writers who compose for a variety of purposes. AP Language and Composition focuses on a variety of nonfiction prose that ranges in complexity and content from 15th century to 21st century writing. Students are introduced to American, British, and World authors who span the ages. While focus on this course is writing, the experience is gained in close reading, interpretation, and rhetorical analysis. For the eleventh grade student, these skills will aid him/her in preparing for the AP Literature and Composition class or for the English IV Honors class the following year. In addition, the Grade 12 student will adjust to the rigors of college level writing. Students may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based upon the colleges' decision.

**Advanced Placement Literature and Composition
(1130)**

5 Credits

Prerequisite: Grade 11: B+ in English II Advanced Honors or A in English 2 Honors; Grade 12: B+ in English III Honors Grades 11, 12

The goals of this course are equivalent to an entry-level college class and therefore, the student should demonstrate superior ability and self-motivation. This course is also designed to prepare the student for the Advanced Placement Literature and Composition Examination, which he/she is expected to take in spring. Students are required to complete a summer assignment prior to entering this class in the fall. The students will primarily study British literature and a sampling of American and World literature, and will engage in close reading, seminar style discussion and critical analysis of literary texts. In addition, the course will include frequent opportunities for writing literary interpretation as appropriate for an introductory college English course. Students may be able to receive college credit upon successful completion of the course and examination. The awarding of such credit is based upon the colleges' decision.

SEMESTER COURSES:

An Engaging Alternative to the Traditional Year-Long American Literature Course

Overview: Semester courses are an alternative to the traditional year long American Literature Course. All courses will be offered at the honors and college prep level and are as challenging as the year long American Literature course (note: courses must have at least 10 students enrolled in order to run). Semester courses allow students to explore different areas of interest in American Literature, while still continuing to prepare for college and careers through intensive reading, writing, speaking, listening and critical thinking.

**The Cutting Edge in American Literature-Award Winners and Game-Changers
Honors (1126); College Prep (2130)**

2.5 Credits

Grade 11 - Semester 1

What does it take to win a Pulitzer Prize in literature? What does it take to win the Nobel Prize in literature? What does it take to change the course of literature in America — or even the world?! Whether you are a current reader, future writer, or somewhere in between, The Cutting Edge in American Literature will examine everything from experimental poets to boundary-breaking best-sellers {and lesser-known geniuses}.

**War Literature: From the Civil War through Vietnam
Honors (1127); College Prep (2127)**

2.5 Credits

Grade 11 - Semester 1

War Literature: Civil War through Vietnam is a course where students will examine the social, cultural, political and historical conditions that have led to war. This course will ask questions about the morality of war as well as examine the effects of race, gender and class as it relates to soldiers coming home from, and veterans of, war. The course will look at the various perspectives of those fighting in war, the families affected by war and the innocent people whose lives are impacted by war. There will be some discussion of propaganda and the anti-war movement. Genres such as memoir, fiction, poetry, graphic novels and literary non-fiction will help students examine these important topics.

**The Dynamics of Class, Race and Gender in America
Honors (1128); College Prep (2128)**

2.5 Credits

Grade 11 - Semester 2

American Literature: Dynamics of Class, Race and Gender in America focuses on the analysis of American Literature from the 1920's to the present in order to help us better understand these important themes. This course is designed to develop the cultural literacy and understanding of how diversity enriches the United States. Reading, lectures, film, and class discussion are an integral part of the class and will be used to help define these oppressions, and to clarify the manner in which they are experienced by Americans through literature.

American Drama: 1950's to the Present**2.5 Credits****Honors (1129); College Prep (2129)****Grade 11 - Semester 2**

American Drama: 1950's to the Present focuses on reading and analyzing comedic and tragic plays. This course is designed to expose students to the great works of American Playwrights that have shaped the last 60 years of verbal art while focusing on thematic topics that appeal to the teenage mind, such as: family life, gender roles, American values, race relations, growing up, and navigating a rapidly changing technological world. The capstone project of this course will include writing a short tragedy or comedy about family life in the "present".

ENGLISH FULL YEAR ELECTIVES**Creative Writing and Speech****5 Credits****College Prep (2168)****Prerequisite: C in previous English course****Grade 10, 11, 12**

Creative Writing, part of a full-year elective course combined with Speech, provides a structural program in the techniques of creative expression. This course also affords extensive opportunities for using these techniques. Poetry, short story, essay, and sketch are among the forms taught. The course is of special value for those college-bound students who intend to major in English or Humanities and have demonstrated a successful application of the proficient basic composition skills. The computer lab, located in the Media Center, and Chromebooks in the classroom, will be used to refine writing skills. Speech, part of a full-year elective course combined with Creative Writing, provides the student with an opportunity to participate in a variety of speech activities such as debating, dramatic reading, impromptu and formal speaking, and parliamentary procedures. Emphasis in this section of the course is upon the development of poise, confidence, and creative expression.

Theatre Arts**5 Credits****College Prep (2138)****Note: Fulfills Visual and Performing Arts Requirement****Grades 10, 11, 12*****Grade 9 Academy Students**

The purpose of the course is to develop an appreciation of the art of theatre. The following units of study are included: theatre organization, play analysis, dramatic literature, history of the theatre, acting (pantomime, movement, voice, diction, oral interpretation, and evaluation of performance), technical production (set design and execution, lighting, costuming, make-up, properties, and sound effects), and some elementary directing. The course goals are directed at creating an educated audience and developing the special career interest of students. Students will be required to attend and review at least one live production during the course of the year. A performance oriented course, Theatre Arts requires student participation.

Journalism I**5 Credits****College Prep (2134)****Prerequisite: C in previous English course****Grades 10, 11, 12**

The chief aims of this elective course are to train students in the skills required to publish school newspapers and provide students with a solid background in journalism theory. Students will be taught the definition and elements of news and will be trained to distinguish fact from opinion. Students will also analyze the role of public mass media in today's society. Students will be taught the process of gathering, writing and disseminating news, including the interview process, editing copywriting headlines, and creating layout. In addition, students will practice writing straight news, feature and opinion pieces. Students will be introduced to career development in the field of Journalism.

Journalism II
College Prep (2135)
Prerequisite: Journalism I
Grades 11, 12

5 Credits

Journalism II is an elective course in which students will utilize skills learned in Journalism I to produce the regularly published school newspaper. Students will apply for editorial and staff positions. Skills in planning, process, and production will be further developed. Students will use technology to assist in publication. Career development in the field of Journalism will be explored.

Journalism III
College Prep (2140)
Prerequisite: Journalism I and II, or prior approval by Journalism teacher
Grade 12

5 Credits

Journalism III is a high-level elective that allows students, who have already worked on the school newspaper, to build upon leadership skills acquired in prior Journalism courses. Students will be responsible for overseeing the entire publication process: brainstorming story ideas, writing, editing, and distribution of the printed paper. The career interest of students will be developed.

Humanities
College Prep (2137)
Grade 12

5 Credits

Humanities is a full-year course open to seniors on an elective basis. This course attempts to broaden and deepen the cultural perspectives of students and to provide them with a more intense understanding of the interaction among art, literature, history, music, architecture, philosophy, drama and the human spirit. Students' critical and creative abilities will be emphasized in order to advance their talents in preparation for college, but more importantly, for life.

MATHEMATICS DEPARTMENT

COURSE DESCRIPTIONS

Algebra I **5 Credits**

Honors (1301), College Prep (2302)

Prerequisite: For Algebra I Honors; B+ in Grade 8 Math

Grades 9, 10, 11, 12

Algebra I is designed for the college preparatory student. In this course, the basic principles of algebraic reasoning are presented. Once the student has mastered the computational skills of algebra, we try to instill an appreciation of logical reasoning and analysis by presenting the students with a method for solving verbal problems by algebraic techniques and applying these techniques to problems of the real world. This course will also help prepare students for the State Assessment.

Geometry **5 Credits**

Honors (1311), College Prep (2312)

Prerequisite: For Geometry Honors: C in Algebra I Honors or B+ in Algebra I CP or for Geometry College Prep: C Algebra I CP

Grades 9, 10, 11, 12

The main objectives of the course are to convey an understanding of the deductive reasoning process, to develop an ability to conduct deductive proof, and to obtain information about the geometric concepts of point, line, and plane in both two and three dimension. Three-dimensional ideas are developed as an integral part of the course. Elements of coordinate geometry and geometric aspects of trigonometry are also presented. In the College Prep course there is less of an emphasis on three-dimensional and proof than in the Honors course. Algebraic concepts will be reinforced as various solutions will require algebraic solutions. This course will also help prepare students for the State Assessment.

Geometry **5 Credits**

General Studies (3315)

Prerequisite: Algebra 1 CP

Grades 10, 11, 12

This course is designed to convey an understanding of the deductive reasoning process and be exposed to proof format at all levels – formal and paragraph. The students will work with key concepts in geometry and will be expected to integrate their understanding of basic algebraic concepts to geometric relationships. This course will also help prepare students for State Assessment in content area.

Algebra II **5 Credits**

Honors (1305)

Prerequisite: C in Geometry Honors and C in Algebra 1 Honors or B+ in Geometry CP and B+ Algebra I CP

Grades 10, 11, 12

This course is designed for the above-average math student who has exhibited a marked proficiency in math during the first and second years. The course differs from Algebra II in that the concepts from Algebra are integrated with trigonometry and students work with the trigonometric functions. This course will help prepare students for the State Assessment.

Algebra II **5 Credits**

College Prep (2306)

Prerequisite: C in Algebra I CP and C in Geometry CP or C in Algebra 1 CP and B+ in Geometry GS

Grades 11, 12

This course reviews some of the basic concepts from Algebra I with particular emphasis on linear and quadratic systems in one and two variables. Some practical applications to the physical science are stressed. This course is not to be taken concurrently with Geometry. This course will help prepare students for the State Assessment.

Algebra II **5 Credits**
General Studies (3318)
Prerequisite: Algebra I and Geometry G
Grades 11, 12

This course reviews basic principles and builds on a fundamental understanding of algebraic concepts from the Algebra 1 curriculum. Linear and quadratic systems in one and two variables will be explored. Factoring will also be included as an important skill. This course is not to be taken concurrently with Geometry. Students should not be allowed concurrent course taking in mathematics, unless it is needed (for a senior) to graduate. This course will help prepare students for the State Assessment.

Pre-Calculus ([Dual Enrollment credit available](#)) **5 Credits**
Honors (1321)
Prerequisite: B in Algebra II Honors
Grades 11, 12

Pre-Calculus is a course for the above-average math student who has shown a marked proficiency in the honors math curriculum during the first three years. The purpose of the course is to unify the mathematics covered in other courses and bridge the gap between algebra and calculus.

Pre-Calculus **5 Credits**
College Prep (2322)
Prerequisite: Algebra II Honors or C in Algebra II CP
Grades 11, 12

This college prep course is designed for the student who has completed Algebra II and desires a fourth year of college prep math. This course will unify and broaden previously covered topics as well as introduce exponential, logarithmic and trigonometric functions.

Statistics **5 Credits**
Honors (1326)
Prerequisite: B in Algebra II Honors or C in Pre-Calculus H or B in Pre-Calculus CP
Grades 11, 12

Statistics with Probability is designed for the student who has successfully completed Algebra II Honors and has decided not to continue in the direction of AP Calculus. This course will introduce the student to the methods used in applied statistics, both descriptive and inferential. The course will also make use of the concepts of probability. The student will gain insight into the preparation of statistical reports and will be better able to interpret the figures and meaning of statistics.

Calculus **5 Credits**
Honors (1327)
Prerequisite: B in Pre-Calculus Honors
Grade 12

Calculus is an honors course for students who have successfully completed Geometry Honors, Algebra II/Honors and Pre-Calculus Honors, who are competent in mathematics and interested in furthering their mathematical studies, but not at the rigor of an Advanced Placement level course. This course will include algebraic and transcendental functions, limits, derivatives, integrals, applications and the fundamental theorem of calculus.

ADVANCED PLACEMENT MATH COURSES

Advanced Placement Calculus (1320)

5 Credits

**Prerequisite: B+ in Pre-Calculus Honors
Grade 12**

This course will include algebraic and transcendental functions, limits, derivatives, integrals, applications, and the fundamental theorem of the calculus. Students may be eligible to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

Advanced Placement Statistics (1328)

5 Credits

**Prerequisite: B+ in Algebra II Honors or B+ in Pre-Calculus Honors
Prerequisite grade based on whichever class the student is currently enrolled in
Grades 11, 12**

This course will introduce the student to the methods used in applied statistics, both descriptive and inferential. The course will also make use of the concepts of probability. The student will gain insight into the preparation of statistical reports and will be better able to interpret the figures and meaning of statistics. Students may be eligible to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

Advanced Placement Computer Science (APCS-A) (1343)

5 Credits

**Prerequisite: B in Introduction to Computer Programming
Grades 10, 11 & 12**

The major emphasis in AP Computer Science is on programming, methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are treated; applications are used to develop student awareness of the need for particular algorithms and data structures, as well as to provide topics for programming assignments to which students can apply their knowledge. Treatments of computer systems and the social implications of computing are integrated into the course and not isolated as separate units. All students admitted to the course are expected to take the Advanced Placement test. Students may be eligible to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

MATH ELECTIVES

Introduction to Computer Science, Programming, and Applications (CSPA-H) [\(Dual Enrollment credit avail\)](#) 5 Credits Honors (1340)

**Prerequisite: B in Algebra I (Honors); Honors Geometry (may be concurrent)
Grades 9, 10, 11, 12**

This course is designed as an entry for students to work with the concepts of beginning programming at honors level depth and rigor. Topics will include, but are not limited to; variables, input/output, control constructs strings, functions, recursion, arrays, matrices, algorithm development and logical thinking. C++ will be used, with an introduction to Python. This course serves as a mathematics elective.

Introduction to Computer Science, Programming, and Applications (CSPA-CP) [\(Dual Enrollment credit avail\)](#) 5 Credits (2340)

**Prerequisite: C in Algebra I
Grades 9, 10, 11, 12**

This course is designed as an entry for students to improve computer and technology literacy at the college preparatory level and as an introduction to coding using the popular language of Python. Topics include: networks, security, databases, computational thinking, physical computing, and real world applications. This course serves as a math elective.

SCIENCE DEPARTMENT

COURSE DESCRIPTIONS

Environmental Earth Science

5 Credits

Honors (1381), College Prep (2382)

Grade 9

Environmental Earth explores various aspects of the planet Earth such as The Universe in which we exist, the history of the Earth, properties of the Earth and its energy systems, Tectonics, Climate, Atmosphere, Weather, and Biogeochemical Cycles. Classroom investigations of collecting, cataloging, and interpreting data are performed from which conclusions are drawn.

Biology

5 Credits

Honors (1361), College Prep (2362), General Studies (3364)

Prerequisite: For Honors: C in Envir. Earth Science Honors or B+ in Grade 8 Algebra and Science or for College Prep: C in Environmental Earth Science CP

Grades 9, 10

Biology I is the scientific study of all living things. The unity, diversity, continuity, and interdependency of living things will be closely examined. Laboratory activities form an important portion of this course.

Chemistry

5 Credits

Honors (1371), College Prep (2372)

Prerequisite: For Honors: C in both Bio H and Alg. 1 H or B+ in Bio CP and B+ in Alg. I CP or for College Prep: C in both Bio CP and Alg. I G or B+ in Bio G and B+ in Alg. I G

Grades 10, 11, 12

This college-preparatory course is concerned with the study of matter, its transformation and the energy relationships invoked in these transformations. A sophisticated model of matter and its relation to energy will be developed. The course in Chemistry is designed to meet the needs of students planning to take advanced work in science, students needing a laboratory physical science for entrance into college and professional schools, and academic students desiring an understanding of the place of Chemistry in modern life. Laboratory activities and problem solving are emphasized.

Physics

5 Credits

Honors (1375), College Prep (2376)

Prerequisite: For Honors: C in Chemistry Honors and Algebra II (may be taken concurrently) or for College Prep: C in Chemistry CP and Algebra II (may be taken concurrently)

Grade 11, 12

Physics is a college-preparatory course designed for students with an interest in understanding science. This course is the study of the interactions of matter and energy and the mathematical laws which govern their behavior. Laboratory activities and problem solving are emphasized.

Biology II

5 Credits

Honors (1363)

Prerequisite: C in Biology Honors and C in Chemistry Honors or B in Biology CP and B in Chemistry CP

Grades 11, 12

Biology II is a second-year biology course for students with an extended interest in science. The course stresses the unifying principles and concepts applicable to life at all levels of organization. The unifying themes of interaction of organisms and their environment, homeostasis and self-regulation, taxonomy, relationships among organisms, and the energy requirements for the maintenance of living systems are evolved throughout the program.

The development of science process thinking is emphasized during the laboratory studies of the course. Due to the laboratory program continuum, students may not elect both Biology II and AP Biology.

**Environmental Science
College Prep (2380)
Prerequisite: Biology
Grades 11, 12**

5 Credits

The principles addressed in this course will include local as well as global topics in environmental science, marine ecology and oceanography. The course focuses on real-world investigations of a variety of environmental concepts and concerns. Technology and hands-on experiences will be utilized to facilitate student learning.

STEAM ACADEMY PROGRAM

Courses below are filled with first preference to students enrolled in the STEAM Academy.

Remaining spaces may be open to non-Academy students meeting prerequisites. Please inquire if interested.

**Anatomy & Physiology (H)
(1352)**

5 credits

**Prerequisite: B in Biology Honors and or B+ in Biology CP
Grades 10**

This course is intended for those students interested in pursuing careers in the Health Sciences. It will meet the needs of the pre-professional student or individuals who desire a deeper understanding of the human body. Through classroom and laboratory activities, the student will be able to gain a greater understanding of the anatomy and physiology of the human body at the molecular, cellular, tissue and organ system level. This course will cover the Integumentary, Skeletal, Muscular, Nervous, Digestive, Cardiovascular, Urinary, Respiratory and Reproductive Systems of the human body.

**Marine Science I (H)
(1390)**

5 Credits

**Prerequisite: C in Chemistry Honors or B in Chemistry CP (Chemistry may be taken concurrently with permission)
Grades 11, 12**

Students will become scientifically literate, technologically advanced and environmentally aware citizens through this course. Marine Science I will emphasize physical, geological and chemical oceanography, as well as the study of tides and coastline factors. Field studies will extensively explore the Barnegat Bay ecosystem and the factors involved in watershed management. Through the integration of technology and an extensive hands-on, field and lab-based research projects, students in the Marine Science I course will be empowered to pursue further academic study and research in the sciences.

**Students currently in Poseidon Academy may take this class. Taken concurrently with STEAM technology.*

**STEAM Technology (H)
(1393)**

5 credits

**Prerequisite: Concurrent enrollment in Marine Science I
Grades 11,12**

Students concurrently enrolled in Marine Science I will apply career based technology to their studies of marine biogeochemistry. Students will use Google Suite to complete tasks including scientific webquests, graphing and data analysis with Google Sheets, and presentation of scientific topics with Google Slides. Video editing will focus on the creation of scientific documentary. Specific topics will mirror those in Marine Science I.

**Marine Science II (H) [\(Dual enrollment credit available\)](#)
(1391)**

10 Credits

**Prerequisite: B in Marine Science I or by permission
Grades 12**

Marine Science II will continue where Marine Science I left off. This course will emphasize the living marine environment with a focus on estuaries and marine organisms. Dissection and systems analysis will be included as well as visitation of marine systems and interaction with living species. Physical oceanographic topics will include marine chemistry as well as global current systems. Students in Marine Science II will be well prepared for post-secondary studies and research in the sciences.

**Students currently in Poseidon Academy may take this class. Students enrolling in Marine Science II will be concurrently enrolled in AP Environmental Science taken at the Poseidon Lab.*

ADVANCED PLACEMENT SCIENCE COURSES

Advanced Placement Environmental Science (1378)

5 Credits

Prerequisite: B+ in Biology Honors

Grade 10, 11, 12

Advanced Placement Environmental Science is offered to students who have met the prerequisite, who are competent in mathematics, and who have an interest in environmental science. It is a college-level science class with a strong lab and field component. Students taking this course are expected to take the Advanced Placement test. The student may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

Advanced Placement Biology (1360)

5 Credits

Prerequisite: B+ in Biology Honors and Chemistry Honors

Grades 11, 12

Advanced Placement Biology is a course offered to juniors and seniors following mastery of first-year high school courses in Chemistry, Biology (and Environmental Earth Science, if elected). Physics, taken concurrently or prior to Advanced Placement Biology, is strongly recommended for the serious science student. The course is a rigorous continuation and intensification of the work begun in first-year Biology; the chemical molecular and cellular areas, the organismal areas, and the ecological, genetics and evolutionary areas of Biology will be stressed. Laboratory work, field trips and additional readings form a vital part of the program. Students electing the course are expected to take the Advanced Placement Test. The student may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

Advanced Placement Chemistry (1370)

5 Credits

Prerequisite: B+ in Chemistry Honors and B+ in Algebra II Honors

Grades 11, 12

Advanced Placement Chemistry is a college preparatory course for students who have successfully completed Biology, Chemistry, and Physics, who are competent in mathematics, and who wish a college-level science course while attending high school. The course is a continuation and intensification of the work begun in first year Chemistry; physical principles of Chemistry will be the major area of study. Laboratory activities and problem solving are emphasized. Students taking this course are expected to take the Advanced Placement test. The student may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

Advanced Placement Environmental Science (1378)

5 Credits

Prerequisite: B+ in Biology Honors; Chemistry (may be taken concurrently)

Grades 10, 11, 12

Advanced Placement Environmental Science is offered to students who have met the prerequisite, who are competent in mathematics, and who have an interest in environmental science. It is a college-level science class with a strong lab and field component. Students taking this course are expected to take the Advanced Placement test. The student may be able to receive college credit upon completion of the course. The awarding of such credit is based on the decision of the college

Advanced Placement Physics (1374)

5 Credits

Prerequisite: B+ in Chemistry Honors and Physics Honors

Grade 12

Advanced Placement Physics is a course offered to seniors who have successfully completed Biology, Chemistry, and first-year Physics and who are competent in mathematics. The course is a college-level science class. It is a continuation and intensification of the work begun in first-year physics. Laboratory work and mathematical applications are emphasized. Students taking this course are expected to take the Advanced Placement test. The student may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college.

**AP Seminar
(1355)
Grade 11**

5 Credits

AP Seminar exposes students to in-depth research into real-world topics and problems. It is a foundational course that engages students in cross-curricular conversations around relevant issues. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Students may choose to continue their study in AP Research, the second course in the sequence.

**This course is being piloted at High School East only for 2019-2020, with anticipated availability district-wide in 2020-2021.*

SCIENCE ELECTIVES – FULL YEAR

**Authentic Science Research
Honors (1377)
Prerequisite: Application
Grades 10, 11, 12**

5 Credits

Authentic Science Research (ASR) is a three-year elective science course that affords students the ability to engage in original research. This course will present each essential component of the research paper. Students enrolled in ASR choose individual research topics which may lead to partnerships with scientists in university, research, or industry, and/or a junior summer internship. ASR culminates each year with a science symposium where students present their work to school and community members.

**Anatomy and Physiology
College Prep (2352)
Prerequisite: Successful completion of Biology
Grades 10, 11, 12**

5 Credits

This course covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes as they relate to each system.

**Forensic Science
Honors (1384)
For Honors: Prerequisite: B in Biology and B in Chemistry Honors or B+ in Biology CP and B+ in Chemistry CP
For CP (2384) and G (3393): Successful completion of Biology
Grades 11, 12**

5 Credits

Forensic Science is a full year elective lab science in which students will make practical use of the application of science to matters of law, specifically criminal investigations. Students will apply inference and deductive reasoning to the investigation and potential solving of crimes. Forensic Science involves all various areas of science with an emphasis in complex reasoning and critical thinking.

SOCIAL STUDIES DEPARTMENT

COURSE DESCRIPTIONS

World Civilization

5 Credits

Honors (1201), College Prep (2202)

Grade 9

In order to fulfill the high school graduation requirement, students must elect World Civilization. World Civilization is a survey course which traces the growth of civilization with a focus on the period of history from the Renaissance to the beginnings of the 21st century. One of the course's major concerns is to encourage students to develop an appreciation for the contributions and accomplishments of various peoples of the world to the development of civilization. This course is recommended for college-bound students.

American History I

5 Credits

Advanced Honors (1220)

Prerequisite: B in World Civilization Honors and B in English I Honors

Grade 10

American History I is a survey course covering the Colonial Period to 1900. Major emphasis will be placed on the development of government, as well as, the cultural, economic, and social factors which have influenced the growth of our country. Students are expected to become proficient in research techniques, analyzing primary sources, and developing evaluating skills. Their knowledge should be expressed in good English. Students who take this course are preparing to take Advanced Placement History the following year.

American History I

5 Credits

Honors (1221), College Prep (2222), General Studies (3223)

Grade 10

American History I is a survey course covering the Colonial Period to 1900. Major emphasis will be placed on the development of government, as well as the cultural, economic, and social factors which have influenced the growth of our country.

American History II

5 Credits

Honors (1231), College Prep (2232), General Studies (3233)

Grade 11

American History II includes the study of American History from 1900 to the present, the study of the American economy and current economic issues, and the study of government and current political issues.

ADVANCED PLACEMENT HISTORY CLASSES

Advanced Placement United States History (1230)

5 Credits

Prerequisite: Successful completion of Am. History I Adv. Honors or A in American History I Honors

Grade 11

Advanced Placement American History is the second year of a two-year program of the social, political and economical aspects of American civilization. The students are expected to become proficient in research techniques, analyzing primary sources, and developing evaluating skills. Their knowledge should be expressed in good English. Students taking this course are expected to take the Advanced Placement Test. The student may be able to receive college credit upon completion of the course. The awarding of such credit is based on the decision of the college.

**Advanced Placement United States Government and Politics
(1251)**

5 Credits

Prerequisite: B in English II or English III and a B in History I and American and a B in American History I and American History II

Grades 11, 12

Advanced Placement U.S. Government and Politics is a one year program with an analytical perspective on government and politics in the United States. This course will be used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students taking this course are expected to take the Advanced Placement Test. The student may be able to receive college credit upon successful completion of the course and the examination. The awarding of such credit is based on the decision of the college. This course does not fulfill the state requirement for American History II.

HISTORY ELECTIVES

World Affairs

5 Credits

Honors (1241)

Grades 11, 12

This is a course open to juniors and seniors who have a strong interest in world affairs and who have shown, through past performance in social studies and in English, the ability to read with comprehension and to interpret and analyze material. Those enrolled in World Affairs must be willing to assume the responsibility of independent study. The examination of the historical background to current events is an essential part of the course. Topics that are emphasized include among others: the evolution of democratic thought, the regional cultural patterns and American foreign policy in relation to world powers as well as smaller, impact nations.

Twentieth Century World History

5 Credits

Honors (1211), College Prep (2212)

Prerequisite: C in World Civilization

Grades 11, 12

This is an elective course open to juniors and seniors. It is designed to study the significant events of the Twentieth Century. Students will be given the opportunity to explore the political, social and economic forces shaping events such as the Great War, the Depression, World War II, the Cold War, and the emergence of Third World nations. Contemporary problems in the Middle East, Africa, Asia, and Latin America will be studied.

Human Growth and Socialization

5 Credits

College Prep (2242)

Grades 11, 12

This course is an elective open to juniors and seniors. The students will examine the significant factors which serve to develop and influence personality structure. There is a great deal of emphasis on the psychological and sociological dynamics involved in the development of the personality. The social sciences studied share a common concern with the development of a person. This course is designed with all students in mind. Everyone either college bound or vocationally oriented will benefit from it. You will discover more about yourself and your role in society.

Political and Legal Education

5 Credits

Honors (1245)

Prerequisite: Application

Grade 12

Political and Legal Education is an elective course designed to provide students with real world experiences in government and law. The program stresses both the acquisition of knowledge and the active participation of students at all levels of government. Students are expected to complete a political internship, participate in Model Congress, debate topics including legislation using Parliamentary Procedure, and compete in a Mock Trial.

Requirements include: out of class meetings, field trips, independent study, public speaking, and debate.

WORLD LANGUAGE DEPARTMENT

COURSE DESCRIPTIONS

The World Language Department offers a five-year program ONLY in the study of Spanish. French V and German V are available only to transfer students who have successfully completed level IV prior to entry. Levels IV and V may be combined depending on class enrollments. The program emphasizes communication, and the practices, perspectives and products of other cultures.

Quarterly exams that include oral presentations and interpretive readings are required at ALL levels to demonstrate developing communicative proficiency. The addition of interpersonal communication and an essay are options that may be included as well.

French I **5 Credits**
Honors (1411) College Prep (2412)
Grades 9, 10, 11, 12

German I
Honors (1471) College Prep (2472)
Grades 9, 10, 11, 12

Spanish I
Honors (1441) College Prep (2442)
Grades 9, 10, 11, 12

In this introductory level of a world language the student will develop listening, speaking, reading and writing skills that will foster real-life communication. The culture of the specified language is embedded within the course materials. This course is part of the foundation for further study in the language and fulfills the high school graduation requirement.

French II **5 Credits**
Honors (1421) College Prep (2422)
Prerequisite: Level 1
Grades 10, 11, 12

German II
Honors (1481) College Prep (2482)
Grades 10, 11, 12

Spanish II
Honors (1451), College Prep (2452)
Grades 9, 10, 11, 12

For Grade 9: Spanish II is available only to those students who successfully completed the Grade 8 full year Spanish I program.

In order to succeed at the second level, students should have a strong background from their level one experience. The second level language courses are a continuation of the foundation for further study of the language. The focus of this class is on communication. Completion of these introductory courses should prepare the students for additional study and travel.

French III **5 Credits**
Honors (1425)
Prerequisite for French III: C in Level II Honors, B in Level II CP
Grades 11, 12

German III**Prerequisite for German III: C in Level II Honors, B in Level II CP****Honors (1490)****Grades 11, 12****Spanish III****Prerequisite for Spanish III H: C in Level II Honors, B in Level II CP****Honors (1461)****Grades 10, 11, 12****Spanish III****Prerequisite for Spanish III CP: C in Level II CP****College Prep (2462)****Grades 11, 12**

The Level III course is the beginning of the intermediate level of language learning. The foundation of proficiency, developed in Levels I and II, is expanded to more complex idioms, conversation, reading selections and writing. Grammar will be taught as it supports communication. Cultural topics are presented in an authentic framework. Audio and video materials supplement the curriculum to give the students a realistic view of the world of the language being studied. This is an important course for refining the four skills of listening, speaking, reading, and writing through the modes of communication and in preparation for more advanced study in the language.

French IV**5 Credits****Honors (1430)****Prerequisite for French IV: C in Level III Honors****Grade 12****German IV****Prerequisite for German IV: C in Level III Honors****Honors (1495)****Grades 12****Spanish IV****Prerequisite for Spanish IV: C in Level III; or C in Heritage Spanish II****Honors (1465)****Grades 11, 12**

At this level, the student should be able to function in the language in a spontaneous manner. Everyday topics about home, school, and life in general are discussed in the language. A generalized history of the target culture is studied. This includes political occurrences, art, music, philosophy, and science. Students are expected to be able to develop monologues, dialogues, and critiques about materials they have studied.

Spanish V**5 Credits****Honors (1467)****Prerequisite: C in Level IV****Grade 12**

The classes at this level are usually small. This is the extra year of language for those who began their studies in the accelerated 8th grade program. The expectation at this level of learning is that the student can function comfortably in everyday situations and specific academic modes in the language being studied. Literature and other authentic materials are examined. Students are expected to compose language projects by speaking and writing at a more advanced level. The small group nature of these classes gives a very intense and personalized language experience to those who participate. Depending on enrollment, this class may easily be combined with Spanish IV, since the curriculum is one that alternates topics every year in an A/B format. However, more sophisticated and developed language skills will be expected in a combined class because of their prior Spanish IV experience.

Heritage Spanish I**5 Credits****Honors (1469), College Prep (2466)****Prerequisite: Students should be able to sustain a conversation in Spanish and be able to write a short paragraph in Spanish****Grades 9, 10, 11, 12****Heritage Spanish II****Honors (1470), College Prep (2468)****Grades 10, 11, 12**

This course is for students who are native or heritage speakers of the language whose first language is Spanish or who hear or may use Spanish at home. The course prepares the students to communicate proficiently both in verbal and written forms. The coursework focuses on the cultural contributions of different Spanish-speaking countries. Music, art, literature, and history of the different regions will be explored. This course is a two-year sequence; students who opt to take the course for two years may not skip a year and return to the sequence. Upon successful completion of this two-year sequence, students may continue their studies in Spanish IV, with teacher recommendation. In some cases, the teacher may recommend entry into Spanish III at the end of the 2nd year.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

COURSE DESCRIPTIONS

Comprehensive Health and Physical Education

5 Credits

Health/PE I (2771), Health/PE II (2772), Health/PE III (2773), Health/PE IV (2774)

Grades 9, 10, 11, 12

The course meets five periods each week for three marking periods. The goal is to develop self-satisfaction through achievement and an attitude of life-time wellness. The student will experience a large variety of movement experiences in individual and team activities. Personal fitness concepts are taught and put into practice. Grading is determined by the student's achievement of course proficiencies.

Each grade level has its own health education curriculum, which is implemented during one marking period of each year. The primary goal is for students to recognize the need for wellness over a lifetime. Areas studied include the structure and function of several body systems, career exploration of health fields, mental health, first aid, substance abuse, AIDS, character education, and many topics in the family life and sex education realm. There is an emphasis on the development of critical thinking and writing proficiency through class discussions and activities.

Driver Education

(2777)

Grade 10

All sophomores are scheduled for the classroom course in driver education for one marking period. The goal of the course is for the students to acquire the knowledge necessary to make responsible driving decisions. It seeks to develop a safe driver's attitude by studying driver fitness, emotions and attitudes, substance abuse, traffic laws made by nature and human beings, and the purchase of insurance.

Physical Education Option II

3.75 Credits

PE III (2790) For Juniors

Prerequisite: Application

PE IV (2793) For Seniors who were in the program as Juniors.

This option permits a student to earn credits in a more personalized and independent manner. Option II requires application and pre-approval from the Principal's Option II Committee to ensure that student achievement meets or exceeds the standards. Before credit will be awarded, the student must pass appropriate assessments and other measures of progress. Contact your Guidance Counselor for details. Students are still required to take a marking period of Health on site as described above.

Dance Academy PE

5 Credits

(2778) (2779)

(Dance I, II)

The Performing Arts Academy for Dance at High School North is a competitive program offered to students entering 9th grade. Eighth grade student applications are evaluated on multiple criteria including previous dance experience. The dance academy is designed to introduce students to various styles of dance technique. Students will be exposed to classes such as Ballet, Jazz, Tap, Hip-Hop, Lyrical, Improvisation, and Multi-Cultural dance forms during the course of the year. In addition to "dancing" in the academy, students will also gain knowledge and aesthetic awareness of Dance in its historical, cultural, and social contexts. They will develop a strong understanding of the choreographic process by continuously crafting their own framework for observing and analyzing through media and live performance. Dancers will have many opportunities to perform their own work as well as the choreography of their instructor(s) and guest artist(s). Infused within these units is the realization and recognition that Dance Education contributes to a healthy lifestyle, as well as fosters self-confidence and develops great social skills. Dance enables our students to become creative thinkers, leaving these artists to discover new ways to approach problem solving in other areas of academic study. Students will leave open minded, self-assured, and confident to fully engage themselves in the art of Dance, as well as in everyday life.

VISUAL AND PERFORMING ARTS AND 21ST CENTURY LIFE AND CAREERS, CAREER-TECHNICAL EDUCATION CHART

Courses listed below meet Visual and Performing Arts Requirements	Courses listed below meet 21 st Century Life & Careers and Career-Technical Education Requirements
Full Year Courses	Full Year Courses
<i>Visual and Studio Arts</i>	<i>Business</i>
Studio Art I, II, III, IV	Accounting I, II
Advanced Placement Studio Art	Accounting Honors I, II
Art History	Principles of Law
<i>Music</i>	Marketing I, II
Music Theory I, II	Marketing Honors I, II
<i>Instrumental Music</i>	Advanced Placement Micro/Macroeconomics
Band I, II, III, IV	<i>Technology, Engineering, and Computer Science</i>
Composition I	Advanced Computer Graphics and Design
Orchestra I, II, III, IV	Architectural Design Technology
Academy Piano I, II	Creative Design Technology
<i>Vocal Music</i>	Engineering Design Technology
Chorale	Introduction to Computer Graphics and Design
Concert Choir	Introduction to Digital Arts Design
Masters Choir	<i>Print and Broadcast Media</i>
<i>Theatre Arts</i>	Broadcast Journalism
Theatre Arts I, II	Journalism I, II, III
	Television Production
Half-Year Courses	<i>Service Learning/Apprenticeships</i>
Exploring Music	Community Action Program (C.A.P.) – 5 or 10 Credits
History of Rock and Roll	Cooperative Education – 15 Credits
Music in Film	
Music on Broadway	Half-Year Courses
	Business Ethics
	Career Exploration
	Fashion Design Technology
	Financial Markets and Trading
	Interior Design Technology
	Multimedia
	Web Page Design

Note: 5 Credits are required in Visual and Performing Arts AND 21st Century Life and Careers Education.
All full-year courses are 5 credits, except where noted. All half-year courses are 2.5 credits.

VISUAL AND PERFORMING ARTS DEPARTMENTS

COURSE DESCRIPTIONS

ART ELECTIVES – FULL YEAR

Art Appreciation I (2735)

5 Credits

Grades 9, 10, 11, 12

Students in this semester long course will explore many different artists through hands-on activities as well as lectures and demonstrations. Students will utilize a variety of different materials as they participate in a series of art experiences based on the styles and techniques of renowned artists. Emphasis will be placed on the importance of style and technique as used to express ideas, as well as the artist's place in history. Students will find this introduction to famous artists a valuable asset should they elect to further explore the creative process in the year long course offering Studio Art I.

Studio Art I (2701)

5 Credits

Grades 9, 10, 11, 12

This year long course is designed as an introduction for students who may be interested in continuing their study of fine arts throughout high school. Students will explore essential concepts and skills that allow them to express themselves in an effective manner while using a variety of materials and media to create two and three-dimensional art forms. At the completion of this course, students will have been introduced to the higher levels of knowledge, skills, and aesthetic awareness required for two and three-dimensional artistic expression and be prepared to elect additional year long studio courses following the sequence outlined in this guide.

Studio Art II (2702)

5 Credits

Prerequisite: Successful completion of Studio Art 1

Grades 10, 11, 12

This year long course extends and reinforces the knowledge, skills and aesthetic awareness gained from participation in the year long course Introduction to Artists Studio. It is taught in a studio atmosphere with emphasis on visual perception and active investigation of ideas, issues, feelings, aesthetics and aspects of human experience through manipulation of a variety of art media. The course is broadly based on the elements and principles of art, their use in our environment, and their historical significance. Experiences provide students with opportunities to explore possibilities for expression and experiment with different approaches to communication of feeling and meaning beyond verbal expression.

Studio Art III (2703)

5 Credits

Prerequisite: Successful completion of Studio Arts II

Grades 11, 12

This comprehensive studio course will build upon the skills learned in Artists' Studio. Through two and three-dimensional projects, students will cultivate individual styles, become familiar with art schools and careers, and develop the work habits of the professional artist. Students select additions for portfolios based on technical quality, personal style, intended purpose, and evidence of growth over time.

Studio Art IV (2704)

5 Credits

Prerequisite: Successful completion of Studio Arts III

Grade 12

This course will be a culminating art experience for the self-motivated student. Students engage in advanced study of art production, art history, aesthetics, and art criticism, while maintaining the attitude and self-discipline of a working artist. They exhibit technical proficiency and personal style while working in advanced media. An exit portfolio giving evidence of quality, concentration, and breadth of work produced throughout the high school program is required.

Art History**5 Credits****(2705)****Grades 10, 11, 12**

Students will develop an understanding of world history by examining the major forms of artistic expression from prehistory to contemporary times. Within the context of history, geography, politics, religion and culture, they will study the development of civilization as it is reflected in art created during defined periods of time. Students will also acquire knowledge of the principal artists and architects of these periods.

ARTS ACADEMY: SCHOOL OF VISUAL ARTS PROGRAM

Courses below are filled with first preference to students enrolled in the Arts Academy, with any remaining spaces open to all non-Academy students meeting the prerequisites.

Advanced Arts I**5 Credits****1705****Prerequisite: Acceptance in Art Academy or teacher recommendation****Grade 9**

The Arts Academy I program is designed to introduce the accepted freshman to a variety of mediums and materials while also instructing them on time management and exploring creativity in a small group setting. Observational skills will be developed along with exposure to past and present artists, as they create drawings that are both accurate and expressive. In addition, students will also be able to take advantage of field trip opportunities and school based projects. The Arts Academy I program strives to provide a strong base for the further Arts Academy courses.

Advanced Arts II**5 Credits****1706****Prerequisite Advanced Art I****Grade 10**

The Arts Academy department seeks to produce excellence in the Visual Art through intensive training and the implementation of high standards. Students will build upon learned concepts with the intention of gaining mastery, concentration, a strong work ethic, and discipline. The school will also form strong partnerships with the arts community in Toms River to work on community based art projects and murals. Field trips will broaden students' knowledge of the arts via first hand experiences.

Advanced Arts III**5 Credits****1707****Prerequisite: Advanced Arts II****Grade: 11**

The third year of the School of Visual stresses two components - the development of an advanced portfolio and the understanding of the world of work and the variety of possibilities for careers in the visual arts. Students will continue to explore techniques and concepts with an emphasis on creating technically strong works of art with an individual voice. Specific areas of interest can be determined and addressed in their portfolio creation. Students will be expected to work both in class and independently at home. Art schools and college programs will be examined. Community resources and experiences will be utilized when appropriate. Field trips will broaden student's knowledge of the arts via first hand experiences.

ADVANCED PLACEMENT ART COURSES

Advanced Placement Studio Art (1731)

5 Credits

Prerequisite: Two years HS Art Instruction, Portfolio and recommendation by H.S. Art Instructor

Grade 12

This intensive one-year course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art throughout high school. Ideally suited for students who work well independently, the course provides a practical experience in art equivalent to that of an introductory college course in studio art. Students will focus on the preparation of a portfolio of artworks that exhibit quality, concentration in an area of visual interest or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. Digital portfolios will be submitted in May to the College Board for evaluation.

MUSIC ELECTIVES – FULL YEAR

Music Theory I (2711)

5 Credits

Grades 10, 11, 12

This course is designed to meet the needs of the students who have an interest in music as a vocation or avocation. Theory, four-part writing, musical form, scales, basic chords, rhythmic notation, simple composition, and elementary orchestrations are taught simultaneously. Upon completion of the course, the students will have in their grasp the basic essentials for a career in music.

Music Theory II (2712)

5 Credits

Prerequisite: Successful completion of Music Theory I

Grades 11, 12

This course is a continuation and more in-depth study of concepts presented in Music Theory I. Additional topics include ear training, elementary harmony, and keyboard harmony. This course is designed for students pursuing a college major or vocational career in music.

Chorale (2715)

5 Credits

Grades 9, 10, 11, 12

Concert Choir (2716)

Prerequisite: Audition

Grades 10, 11, 12

Master Choir

Prerequisite: Audition

(2717)

Grades 9, 10, 11, 12

The choral program is designed to encourage and develop all forms of musical ability. Students are introduced to vocal production and proper singing techniques and given the opportunity to further languages. A second year student is eligible for a selective chorus through an audition that demonstrates mastery of the first year curriculum of basic musicianship skills and attaining an advanced level of vocal development. Junior students who are considering music as a college major or vocation will explore various opportunities for study and employment in the fields of music. Vocal Music offerings are based on musical ability, interest, and auditions. Choral students must be available to participate in concerts as required by the instructor.

Band I (2720) Prerequisite: Fundamental Grades 9, 10, 11, 12	Band III (2722) Audition Grades 11, 12	5 Credits
---------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------

Band II (2721) Grades 10, 11, 12	Band IV (2723) Grade 12	
-------------------------------------------------------------	----------------------------------------------------	--

This program provides an exciting musical experience to students of varying abilities through music which is appropriate for their level and graded in difficulty. Students electing Band must possess sufficient skills to pass a fundamental audition. Band students have the opportunity to develop the leadership and cooperative skills that will enable them to make a positive contribution to an organization or workplace. Junior students who are considering music as a college major or vocation will explore various opportunities for study and employment in the various fields of music. One of the primary services of bands is performing for both the school and community. As such, all band students must be available to perform in a variety of graded performances, including but not limited to concerts, parades, and football games.

Orchestra I (2725) Prerequisite: Play a stringed instrument Grades 9, 10, 11, 12	Orchestra III (2728) Grades 11, 12	5 Credits
-----------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------	------------------

Orchestra II (2726) Grades 10, 11, 12	Orchestra IV (2729) Grade 12	
------------------------------------------------------------------	---------------------------------------------------------	--

The primary function of the orchestra program is to teach students the art of playing one of the four stringed instruments: violin, viola, cello, and bass. Wind and percussion students must audition for orchestra. In addition to learning technical facility, the students are given an opportunity to "get in touch" with their musical heritage through performance of classical literature. Junior students who are considering music as a college major or vocation will explore various opportunities for study and employment in the fields of music. All orchestra members must be available to participate in concerts as required by the instructor and are encouraged to further their musical studies and to participate in local and regional orchestras.

Academy Piano I & II (H) **5 Credits**
(1725) (1726)

An immersive and individualized piano learning program that focuses on the growth of each student. Using the new Piano Lab at TRN, students will have the opportunity to experience piano learning at their own pace in a classroom setting. Among the topics included are proper technique, understanding of music notation, and learning how to practice so you can become a good piano player.

Composition I **5 Credits**
(1727)

Prerequisite: Successful completion of Piano I and II

Composition I focuses on the creative aspects of music and technology by stressing the application of creative content. Students will complete a series of project based learning activities that include exposure to music composition, arranging, vocal and instrument recording, and music theory.

THEATRE ARTS ELECTIVES – FULL YEAR

Theatre Arts I

5 Credits

College Prep (2138)

May also be used as an English Elective; Fulfills Visual and Performing Arts Requirement

Grades 10, 11, 12

Grade 9 * Academy Students

The purpose of the course is to develop an appreciation of the art of theatre. The following units of study are included: theatre organization, play analysis, dramatic literature, history of the theatre, acting (pantomime, movement, voice, diction, oral interpretation, and evaluation of performance), technical production (set design and execution, lighting, costuming, make-up, properties, and sound effects), and some elementary directing. The course goals are directed at creating an educated audience and developing the special career interest of students. Students will be required to attend and review at least one live production during the course of the year. A performance oriented course, Theatre Arts requires student participation.

Theatre Arts II (H)

5 Credits

(1139)

Grade 10

This course develops student skills in theatre arts performance and production. The following units of study are included: theatre history, deeper study of acting including classical monologues, the Stanislavsky and Meisner Method, scene study, movement for the stage, acting for commercials and film vs stage performance, oral interpretation and evaluation of performance, and further study in technical theatre and directing. Students will be required to attend and review at least one live production during the course of the year. A performance oriented course, Acting I requires successful completion of Academy Theatre Arts and teacher recommendation.

ART AND MUSIC ELECTIVES – HALF YEAR

Music in Film

2.5 Credits

(2745)

Grades 9, 10, 11, 12

This semester long course is designed to introduce students to music used in motion pictures. Students will gain an appreciation for composers and different types of music written for film including sound effects, narrative music which tells a story, background music used to enhance the mood of a scene, and songs found in film. In addition to studying the film music process and history, students will be listening to film scores and viewing excerpts from motion pictures.

Music of Broadway

2.5 Credits

(2746)

Grades 9, 10, 11, 12

This semester long course is open to all students regardless of experience. Students will explore the evolution of the Broadway musical from vaudeville to contemporary musical theater, by listening to soundtracks and viewing video excerpts from shows past and present.

Exploring Music

2.5 Credits

(2747)

Grades 9, 10, 11, 12

So, you say you love music...but how much do you really know about it? Have you ever looked at a piece of music and wondered what those symbols and squiggles mean? This semester long course explores many different aspects of music in a way that all students can understand. Topics include seeing and hearing many different instruments, reading sheet music, basics of writing music, different forms and styles of music, available careers, and an overview of music history. The course provides students ample opportunities to listen to music for a real "ears-on" experience.

**History of Rock and Roll
(2748)**

2.5 Credits

Grades 9, 10, 11, 12

Rock and Roll: A History and Appreciation is a semester long course that focuses on the link between rock and roll music and American History. Students will examine the evolution of rock and roll from its beginnings in the 1950's and explore how it reflects the political and/or social values of a time period. The course offers opportunities for student appreciation of the various music genres through listening, analyzing, and evaluating the artists that best represent the eras or styles of music. Areas of emphasis include, but are not limited to: rockabilly roots, teen idols, surf, Motown, British invasion, protest songs, psychedelic rock, heavy metal, and grunge.

21ST CENTURY LIFE AND CAREERS

COURSE DESCRIPTIONS

ELECTIVES – FULL YEAR

*Technology and Career and Technical Education courses described below meet the 21st Century Life and Careers requirement. For students interested in **computer programming (aka coding)**, see Computer Science courses under MATHEMATICS.*

Introduction to Computer Graphics and Design (2635)

5 Credits

Grades 9, 10, 11, 12

The purpose of this course is to prepare students with the fundamentals of design through hands-on experiences with sketching and various computer-aided design programs. This course builds on traditional design/drafting concepts with an emphasis placed on computer use for individual problem-solving and design projects. Areas of instruction, include, freehand sketching, computer-aided drafting (CAD) two dimensional and three-dimensional drawing, parametric design, geometric solids, shading, rendering, architecture, interior design, and package design.

Engineering Design Technology (2664)

5 Credits

Grades 9, 10, 11, 12

Technology is the application of knowledge to satisfy human needs and wants and to extend human capabilities. In this course students are introduced to a wide range of technologies, including: robotics; plastics and composite technology; industrial technology; electricity and electronics; energy power, and transportation technology; computer-aided drafting and design (CAD); architectural structures; tools and machines; computer numerical control (CNC); hydraulics and pneumatics; and mechanisms. Students employ the same problem-solving processes used in industry and other technological endeavors to produce a product, develop and maintain systems, pioneer new techniques, and perform complex tasks.

Creative Design Technology (2638)

5 Credits

Grades 9, 10, 11, 12

Creative Design Studio focuses on product design, architecture, and engineering. The course provides opportunities to build new products including concept model design, sketches, renderings and animation of machinery. The product design component provides opportunities to design functional products as well as the equipment and tools necessary to produce the products. The engineering and architecture component integrates the problem-solving process with skill development for future careers. The emphasis centers on learning through the use of the design process and hands-on projects.

Architectural Design Technology (2637)

5 Credits

Prerequisite: Intro to Computer Graphics and Design OR Engineering Design Tech OR Creative Design Tech

Grades 10, 11, 12

The goal of this course is for students to acquire the proficiency needed to assemble, analyze, develop and communicate concepts associated with the engineering field. This includes Civil, Mechanical, Architecture and Electrical engineering. Students will develop skills in the areas of technical plans, renderings, materials, building techniques, environmental factors, and regulatory factors. Students will develop concept sketches, plans and 3D renderings of their designs.

Advanced Computer Graphics and Design**5 Credits****(2636)****Prerequisite: Any 2 of the following Introduction to Computer Graphics and Design, Engineering Design Technology, Creative Design Technology, Architectural Design Technology****Grades 10, 11, 12**

This course reinforces the skills developed in Introduction to Computer Graphics and Design and provides for intensive skill development in computer-aided drafting and design (CAD). Students will complete activity projects and develop proficiency in areas which include the following: architecture, mechanical engineering, civil engineering, graphic design/computer-assisted manufacturing (CAD/CAM), Naval architecture, aeronautical design, presentation graphics, topography, cartography, facilities management, model construction, animation, package design, and advertising.

TV PRODUCTION AND BROADCAST JOURNALISM**Television Production****5 Credits****(2655)****Prerequisite: Application, Essay &/or Video****Grade 11**

The Toms River Schools TV STUDIO is a state-of-the-art television production facility located at High School East and available to students at all high schools. The TV STUDIO includes a studio, a fully equipped control room, an editing suite for sound and video, and a "green room." In addition, remote production equipment allows for "on location" taping of special events and sports coverage. The TV STUDIO is also linked to the Cable News Network (CNN), which provides both news and educational services for inclusion in student productions. Television Production is an academic and hands-on studio course, which develops skills in the field of television communication. Specific areas of instruction include: the TV camera, digital video recording, the video switcher, computer applications, writing for TV, editing, directing, audio and lighting.

Broadcast Journalism**5 Credits****(2142)****Prerequisite: Television Production, Application, and 2-5 minute video highlighting your experience/knowledge****Note: Students from HSN and HSS are bused to HSE for class****Grade 12**

Broadcast Journalism builds upon the skills developed in Television Production and provides students with the opportunity to develop advanced skills in the field of broadcast journalism. Concepts in this hands-on course are developed primarily through experience. Working in the TV STUDIO, students produce a daily news show for broadcast on our own cable access channel TV-21 and participate in all areas of production, both as talent and as technicians. In addition, students compose the production teams that participate in a variety of TV-21 programs covering sports, concerts, special events, entertainment programs, and documentaries. The course will also develop the special career interest of students.

21ST CENTURY CAREER HALF YEAR COURSES

Multimedia

2.5 Credits

(2663)

Grades 9, 10, 11, 12

Multimedia is a half-year technology course that has to do with the use of animation, text, video, audio, and images. With this, the class is designed to incorporate beginner's knowledge of all such material. The following programs will be introduced in this class: PowerPoint, Movie Maker, and Photoshop. The course consists of creating projects using each of these programs.

Web Page Design

2.5 Credits

(2506)

Grades 9, 10, 11, 12

This course will educate students on web design theory. Students will begin by learning basic HTML5 Code with CSS to develop websites. Industry standard software will then be introduced to further build on their electronic portfolio. The internet is used throughout the course to research topics, as well as test student websites.

Fashion Design Technology

2.5 Credits

(2631)

Grades 9, 10, 11, 12

The primary goal of this course is to introduce students to the latest technologies on fashion. Topics include clothing identity, elements and principles of design, and fundamentals of fashion design. Using computer assisted design (CAD) software, students will participate in fashion design activities. Students will create portfolios that can assist them in furthering their education plans for careers in Fashion Design Industries.

Interior Design Technology

2.5 Credits

(2632)

Grades 9, 10, 11, 12

The primary goal of this course is to introduce students to the latest technologies on designing home interiors. Topics include home and identity, elements and principles of design, and fundamentals of interior design. Using computer assisted design (CAD) software, students will participate in interior design activities. Students will create portfolios that can assist them in furthering their education plans for careers in Interior Design Industries.

ARTS ACADEMY: SCHOOL OF DIGITAL ARTS PROGRAM

Introduction to Digital Arts (H)

5 Credits

(1701)

Grade 9

The computer has become an essential tool for anyone working in the fields of design, photography, videography, illustration, architecture, industrial design, animation, and multimedia and web design. This course will explore many facets of making art using computer hardware and software. This course is an introduction and overview of the digital arts. The basic elements, components, and skills required for digital art development and production will be defined and explored. Topics include; applications of digital arts, presentation software, visual design, principles, digital media design, web design, configuring a multimedia system, emerging technologies, multimedia components, and interactive multimedia development.

Multimedia (H/S1)

2.5 Credits

(1663)

Grades 10, 11

Students in the Digital Arts Academy will learn how to design and manipulate animation, text, video, audio, and images. This introductory course will focus on solving problems and sharpening presentation skills using tools like PowerPoint, Movie Maker, and Photoshop. By the end of this program in addition to existing classroom responsibilities Digital Arts Academy students will be responsible to create three comprehensive portfolio pieces and present to a panel of experts.

**Web Page Design (H/S2)
(1506)**

2.5 Credits

Grades 10, 11

The primary focus of this course is web design theory. Students will begin by learning basic HTML5 Code with CSS to develop websites. Industry standard software will then be introduced to further build on their electronic portfolio. The internet is used throughout the course to research topics, as well as test student websites. By the end of this program in addition to existing classroom responsibilities, Digital Arts Academy students will be responsible to create three comprehensive portfolio pieces and present to a panel of experts.

**Introduction to Computer Graphics and Design (H)
(2635)**

5 Credits

Grades 9, 10, 11, 12

The purpose of this course is to prepare students with the fundamentals of design through hands-on experiences with sketching and various computer-aided design programs. This course builds on traditional design/drafting concepts with an emphasis placed on computer use for individual problem-solving and design projects. Areas of instruction, include, freehand sketching, computer-aided drafting (CAD) two dimensional and three-dimensional drawing, parametric design, geometric solids, shading, rendering, architecture, interior design, and package design.

FINANCIAL, ECONOMIC, BUSINESS AND ENTREPRENEURIAL LITERACY DEPARTMENT

COURSE DESCRIPTIONS

BUSINESS AND FINANCE ELECTIVES - HALF YEAR

Personal Finance (2504)

2.5 Credits

Grades 9, 10, 11, 12

This course will prepare students to apply economic concepts and decision-making skills to the use of money, credit, investment opportunities, insurance, tax preparation, checking and savings accounts, and maintaining a budget. Activities will include using the Internet and spreadsheet software.

Personal Finance (H) (1504)

2.5 Credits

Grades 9

This course is for Academy students. A capstone project is required quarterly. This course will prepare students to apply economic concepts and decision-making skills to the use of money, credit, investment opportunities, insurance, tax preparation, checking and savings accounts, and maintaining a budget. Activities will include using the Internet and spreadsheet software.

Career Academy course designation; preference given to academy students with remaining seats available to non-academy students

Personal Finance Option II (2590)

2.5 credits

Prerequisite: Application

Grades 10, 11, 12

This option permits a student to earn credits in a more personalized and independent manner. Option II offers alternative paths to credits that meet or exceed the Core Curriculum Content Standards and are based on student interest or career goals (N.J.A.C.6A:8-5.1(a)1ii). Examples include distance or online learning, world language through demonstration of proficiency, or successful completion of an accredited college course. Option II requires application and pre-approval from the principal, in addition to Board of Education approval, to ensure that student achievement meets or exceeds the standards. Before credit will be awarded, student must pass appropriate assessments and other measures of progress. Contact your Guidance Counselor for details.

Career Exploration (2503)

2.5 Credits

Grades 9, 10, 11, 12

This course is designed to assist students in setting educational and occupational goals through assessment of interests and values. Within this framework, the following will be addressed: oral and written communications skills, interviewing skills, job application process, careers resources, and resumes.

Cooperative Education (2547)

15 Credits

Prerequisite: Application

Grade 12

Senior students must apply to the coordinator for acceptance to this course, which allows students to participate in a cooperative work experience program. Students must take the related class as well as be placed in a job. Students must work no less than fifteen hours per week and are paid at least the minimum wage.

Community Action **10 Credits**
College Prep (2246) Early Dismissal Program
Prerequisite: Application
Grade 12
Community-Action offers an opportunity for students to learn and grow beyond the experiences normally available in the classroom setting. This course will be open to students anxious to provide a service to the community on a volunteer basis. Participants in the 10 credit program will be scheduled to attend a Community-Action internship three times a week and will be given release time from school to complete this community internship.

Community Action **5 Credits**
College Prep (2247) In-School Program
Prerequisite: Application
Grade 12
Participants in the 5 credit program will be scheduled a position during one of their periods at their assigned school. Students will be under the direction and supervision of their school and their Community-Action teacher. In addition, students will develop skills that will enhance their pathways into the world of career development.

Accounting I **5 Credits**
(2501)
Grades 9, 10, 11, 12
The purpose of this course is to prepare students for initial jobs in the area of accounting, to learn how to keep records of small businesses or professional offices, and to provide an understanding of business operations essential to the accounting process.

Principles of Law **5 Credits**
(2545)
Grades 9, 10, 11, 12
This course introduces students both to the general principles of law and to those aspects of legal regulations of special importance to the business community.

Marketing I **5 Credits**
(2531)
Grades 9, 10, 11, 12
The main objective of this course is to increase student awareness of career opportunities in the field of selling and marketing occupations. Course content includes basic marketing concepts, marketing careers, marketing trends, and computer technology in marketing occupations. Students are also introduced to the operation of the school store and are required to fulfill a responsibility related to the store operation where applicable. Students will use the Internet to obtain an understanding of its impact on marketing and business activities.

Marketing II **5 Credits**
(2532)
Prerequisite: Marketing I
Grades 10, 11, 12
This course prepares students with the skills required for marketing and selling occupations. Course content includes computer applications related to the marketing process, career opportunities, marketing practices, marketing math, the job application process, and interviewing. In addition, specific skills related to selling, advertising, displaying merchandise, and computerized cash register operation are emphasized. Participation in activities and responsibilities related to school store operations are strongly encouraged where applicable. Students will use the Internet to obtain an understanding of its impact on marketing and business activities.

BUSINESS ACADEMY PROGRAM

Honors Accounting I and II (H) (1501 and 1502)

5 Credits

Grade 9

The purpose of these two half-year courses is to prepare students for initial jobs in the area of accounting, to learn how to keep records of small businesses or professional offices, and to provide an understanding of business operations essential to the accounting process.

Honors Marketing I and II (H) (1531 and 1532)

5 Credits

Grades 9

The main objective of this course is to increase student awareness of career opportunities in the field of selling and marketing occupations. Course content includes basic marketing concepts, marketing careers, marketing trends, and computer technology in marketing occupations. This course prepares students with the skills required for marketing and selling occupations. Course content includes computer applications related to the marketing process, career opportunities, marketing practices, marketing math, the job application process, and interviewing. In addition, specific skills related to selling, advertising, displaying merchandise, and computerized cash register operation are emphasized. Participation in activities and responsibilities related to school store operations are strongly encouraged where applicable. Students will use the Internet to obtain an understanding of its impact on marketing and business activities.

Business Ethics (H) (1535)

2.5 Credits

Grade 10

This course is a rigorous course that is meant to utilize philosophy, business, research, problem-solving and writing skills. It is intended for students interested in exploring the moral, social, and political issues in business across the globe and illustrates the contrasting ethical theories in the world, connecting them with current business practices. Students develop analytic problem-solving skills and rationally resolve ethical dilemmas. They learn to clearly articulate and express well-crafted arguments oral and written work.

Financial Markets and Trading (H) (1537)

2.5 Credits

Grade 10

This one-semester course is open to Business Academy students and students who have completed Honors Accounting I. This real-time trading room environment serves as an introduction to the global financial markets. The course format will also include lecture and classroom discussion. Students will have opportunities to use industry-standard course software to learn about stock and option market concepts. Course content will include discussions of current economic developments and stock and index equity option markets, as well as extensive participation in real-time trading cases and utilization of analytic tools. Students will develop and maintain a Financial Analysis Template to analyze and evaluate the financial performance of companies. Students will also keep a Trading Journal to summarize the results of their investment decisions and key economic data, political and economic current events, and developments in financial markets.

BUSINESS, FINANCE AND ECONOMICS ADVANCED PLACEMENT COURSE

AP Micro/Macroeconomics 1510

5.0 Credits

Grade 11

AP Microeconomics is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

OCEAN COUNTY VOCATIONAL TECHNICAL SCHOOL

Grades 11 and 12

15 Credits

Students attending the Ocean County Vocational Technical School are typically juniors and seniors who wish to continue their education in a college or post-secondary technical institution, or to pursue a career major related to job placement. The students attend home school for half a day, and then are transported to their vocational school center (Brick, Ocean, Jackson, Lakehurst, or Toms River) for the remainder of the day. Students maintain full status with their home school where they pursue academic courses, take part in sports and other co-curricular activities, and graduate. Upon graduation, students receive both a high school diploma and a certificate of completion from the Ocean County Vocational Technical School. In addition, students receive state and national certifications. Many vocational/technical programs have Tech Prep agreements where students can earn between three and twenty college credits while still in high school.

Applications and OCVTS Course Guides with complete course descriptions may be obtained from the guidance office. The decision of acceptance is made solely by the Ocean County Vocational Technical School and is based on space availability, the student's grades, results of placement examinations, and record of attendance.

COURSE OFFERINGS 2019-2020

• Automotive Technology (Tech Prep)	(2806)
• Building Construction Technology	(2812)
• Child Care Professions (Tech Prep)	(2817)
• Collision Repair	(2805)
• Computer Science (Tech Prep)	(2810)
• Computer Service Repair*	(2826)
• Cosmetology (Tech Prep)	(2809)
• Culinary Arts (Tech Prep)	(2837)
• Custom Woodworking and Design	(2815)
• Dental Assisting*	(2823)
• Design and Visual Communication (Tech Prep)	(2820)
• Diesel Engine Technology	(2833)
• Electrical Trades/Integrated Cabling Technology	(2828)
• Fashion Merchandising/Design (Tech Prep)	(2834)
• Heating, Ventilation, Air Conditioning & Refrigeration (HVAC-R)	(2801)
• Health and Fitness Technology (Tech Prep)	(2863)
• Marine Trade Technology	(2841)
• Medical Assistant (Tech Prep)	(2843)
• Medical Skills and Related Health Careers	(2846)
• Precision Machine Technology	(2848)
• Pre-Engineering Technology	(2847)
• Prevocational Programs	(2865)
• Welding	(2861)

*One-Year Program Only

SCHOOL CONTACT INFORMATION

TOMS RIVER HIGH SCHOOL EAST

1225 RAIDER WAY
TOMS RIVER, NEW JERSEY 08753
732-505-5675 (GUIDANCE)
732-505-5665 (MAIN)

TOMS RIVER HIGH SCHOOL NORTH

1245 OLD FREEHOLD ROAD
TOMS RIVER, NEW JERSEY 08753
732-505-5712 (GUIDANCE)
732-505-5705 (MAIN)

TOMS RIVER HIGH SCHOOL SOUTH

55 HYERS STREET
TOMS RIVER, NEW JERSEY 08753
732-505-5745 (GUIDANCE)
732-505-5734 (MAIN)

TOMS RIVER INTERMEDIATE EAST

1519 HOOPER AVENUE
TOMS RIVER, NEW JERSEY 08753
732-505-5783 (GUIDANCE)
732-505-5777 (MAIN)

TOMS RIVER INTERMEDIATE NORTH

150 INTERMEDIATE NORTH WAY
TOMS RIVER, NEW JERSEY 08753
732-505-5808 (GUIDANCE)
732-505-5800 (MAIN)

TOMS RIVER INTERMEDIATE SOUTH

1675 PINEWALD ROAD
BEACHWOOD, NEW JERSEY 08722
732-505-3910 (GUIDANCE)
732-505-3900 (MAIN)