# BRIDGEWATER = RARTTAN 

## REGIONAL <br> HIGH SCHOOL <br> 600 Garretson Road <br> Briddgewater $\mathbb{N}]$ (08807

## PROGRAM OF STUDIES <br> $$
2019-2020
$$



## PERSONNEL DIRECTORY

## ADMINISTRATORS

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| Mr. Charles Ezell ..........................ext. 2204 | Principal |
| :---: | :---: |
| Mr. Roy Dragon ...........................ext. 2258 | Assistant Principal |
| Dr. Michael Godown .....................ext. 2201 | Assistant Principal |
| Dr. Kristia Greenberg ....................ext. 2202 | Assistant Principal |
| Ms. Laura Zamrok ........................ext. 2163 | Assistant Principal |

## DEPARTMENT SUPERVISORS

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| Dr. Laura Craig ............................ext. 2269 | Supervisor of Performing Arts K-12 |
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| Ms. Jennifer Edge ........................ext. 2264 | Supervisor of Social Studies K-12 |
| Mr. Michael Herbst.......................ext. 2267 | Supervisor of Science 6-12 |
| Dr. Leonard Herman ....................ext. 2263 | Supervisor of Business, Industrial Technology, \& Family Consumer Science 6-12; Fine Arts K-12 |
| Mr. Alan Iachini............................ext. 2211 | Supervisor of School Counseling K-12 |
| Ms. Maria Kostis..........................ext. 2268 | Supervisor of World Languages \& ESL K - 12 |
| Dr. Mark Jarmon ..........................ext. 2265 | Supervisor of English 9-12 |
| Mr. John Maggio ..........................ext. 2243 | Athletic Director |
| Mr. Jason Mauriello .......................ext. 2266 | Supervisor of Mathematics 9-12 |
| Mr. Brian Smith............................ext. 2252 | Supervisor of Special Education 9-12 |
| Ms. Lois Fyfe ..............................ext. 2220 | Supervisor of Health, Physical Education, \& Nursing K-12 |
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## HIGH SCHOOL CHILD STUDY TEAM

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Ms. Sarah Morelli-Stutz, Psychologist ..... ext. 2274
Mr. Roman Panczyszyn, Psychologist ..... ext. 2160
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| Dr. Russell Lazovick | .ext. 3201 |
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| Mr. Peter F. Starrs. | ext. 3212 |
| Ms. Karen Jones. | .ext. 3289 |

Superintendent of Schools
Assistant Superintendent of Schools
Assistant Superintendent for Personnel
Assistant Superintendent for Special Services
School Business Administrator/Board Secretary
Director of Curriculum and Instruction

## BOARD OF EDUCATION

Ms. Jackie Barlow, Vice President<br>Mr. Jeffrey Brookner<br>Ms. Jill Gladstone, President<br>Ms. Lynne Hurley<br>Mr. A.J. Joshi<br>Mr. Zachary Malek<br>Ms. Ann Marie Mead,<br>Ms. Melanie Thiesse<br>Mr. Barry Walker

## Educational Philosophy

The educational philosophy of the Bridgewater-Raritan Regional School District is founded on the belief that the responsibility of school is to nurture intellect, civic mindedness, and sociability in students through the combined efforts of staff, administration, parents and community. Our Board of Education believes that students should be guided to attain the knowledge and to develop those skills necessary for success in future occupational endeavors and in the social world in which they will find themselves after formal schooling ends. A fundamental aim of our schools is to develop in youth an understanding of, an appreciation for, and a devotion to the democratic way of life and to instill a desire to improve this way of life. The Board believes the welfare and the development of each individual are the basis of our educational program. All children shall have an opportunity to learn. A well prepared individual, able to meet and solve the problems of society, is the goal.

The Board and staff accept the following charges to achieve this goal:

- To accept primary responsibility for giving students a mastery of the basic skills of learning, thinking, and problem solving; for teaching them to use the various media of self-expression; for instilling in them a knowledge of the social and natural sciences; for acquainting them with the richness of our heritage; and for stimulating them to productive work in the various areas of human endeavor.
- To recognize their responsibility to help meet the physical, intellectual and emotional needs of children, particularly the needs to inquire, to learn, to think, to create, to establish aesthetic, moral and ethical values, and to relate satisfactorily to others in social situations involving family, work, government, and recreation.
- To acknowledge the importance of their supplemental role to the home and other social agencies in developing habits which make for effective personal living, for the maintenance of optimum physical and mental health, and for the establishment of sound moral, ethical, and aesthetic values.


## Graduation - Requirements

## Graduation Requirements: High School

Diplomas shall be granted only to students who have completed the requirements for graduation as mandated by state law and administrative code established and approved by the Bridgewater-Raritan Board of Education. Those requirements include:

- The achievement of approved levels of proficiency in all courses necessary to satisfy graduation requirements.
- The student's compliance with the district's final examination requirements as stated in BOE Policy 2624.1, MidYear and Final Examinations: High School.
- The student's compliance with the district's attendance requirements as stated in BOE Regulation 5200, Attendance.
- The achievement of a passing score as indicated in the charts below (by graduating year) on any required New Jersey State assessment(s) or other designated, substitute assessment(s) approved by the New Jersey Department of Education (NJDOE).
Students who perform below statewide standards shall be provided with a comprehensive individualized assessment as specified in N.J.A.C. 6:8-3.4. On the basis of assessment students shall be provided with the services needed to remedy those identified deficiencies, which shall include but not be limited to the development and implementation of an individual student improvement plan.

For the Class of 2020, 2021, and 2022:

| English Language Arts | Mathematics |
| :--- | :--- |
| NJSLA/PARCC ELA Grade $10 \geq 750$ (Level 4) or | NJSLA/PARCC Algebra I $\geq 750$ (Level 4) or |
| NJSLA/PARCC ELA Grade $9 \geq 750$ (Level 4) or | NJSLA/PARCC Geometry $\geq 725$ (Level 3) or |
| NJSLA/PARCC ELA Grade $11 \geq 725$ (Level 3) or | NJSLA/PARCC Algebra II $\geq 725$ (Level 3) or |
| SAT Reading Test $\geq 22$ or | SAT Math Test $\geq 22$ or |
| SAT Evidence-Based Reading \& Writing Section $\geq 450$ or | SAT Math Section $\geq 440$ or |
| ACT Reading or ACT PLAN Reading** $\geq 16$ or | ACT or ACT PLAN Math** $\geq 16$ or |
| Accuplacer Write Placer $\geq 6$ or | Accuplacer Elementary Algebra $\geq 76$ or |
| Accuplacer Write Placer ESL $\geq 4$ or | Next-Generation ACCUPLACER Quantitative, Reasoning, <br> Algebra, and Statistics (QAS) $\geq 255$ |
| PSAT10 Reading or PSAT/NMSQT Reading $\geq 22$ or | PSAT10 Math or PSAT/NMSQT Math $\geq 22$ or |
| ACT Aspire Reading** $\geq 422$ or | ACT Aspire Math** $\geq 422$ or |
| ASVAB-AFQT Composite $\geq 31$ or | ASVAB-AFQT Composite $\geq 31$ or |
| Meet the Criteria of the NJDOE Portfolio Appeal | Meet the Criteria of the NJDOE Portfolio Appeal |

${ }^{* *}$ Test is no longer administered but can be used for the graduating year.
For the Classes of 2023 and beyond:

## From NJDOE:

"The NJDOE is committed to providing fair notice to students and educators and will continue to collaborate with stakeholders to transition to the next generation of statewide assessments. "

## High School Credit and Course Requirements for Graduation

> A total of $\mathbf{1 2 0}$ credits are required for graduation, 90 of which must be earned at the high school level or through demonstration of proficiency as per Option II (see page 6).
> Courses amounting to at least 35 credits must be taken by all $9^{\text {th }}, 10^{\text {th }}$, and $11^{\text {th }}$ grade students. For these three grade levels, a minimum of seven courses must be scheduled at all times.
$>12^{\text {th }}$ grade students are permitted to take the minimum number of credits needed for graduation. Students are required to take an English Language \& Literature IV course and a Physical Education/Health IV course during their senior year.
> Successful completion of the following courses:

- Four years ( 20 credits) of English Language \& Literature (AP English Language \& Composition and/or AP English Language \& Literature included)
- Three years ( 15 credits) of Social Studies; two years ( 10 credits) must be American History and one year (5 credits) must be World Civilizations
- Three years ( 15 credits) of Science ( 5 credits must be in laboratory Biology and one additional laboratory/inquiry based science course in Chemistry, Physics, or Environmental Science)
- Three years ( 15 credits) of Mathematics (must include Algebra I and Geometry)
- One year ( 5 credits) in World Languages
- One year ( 5 credits) in Visual and Performing Arts

Visual and Performing Arts Courses:

| AP Art History | Crafts I, II | Sculpture |
| :--- | :--- | :--- |
| AP Music Theory | Cultural Ceramics | Select Women's Choir |
| AP Studio Art | Design | String Orchestra |
| Art History | Digital Fine Arts I | Symphonic Band |
| Art I, II, III, IV (all levels) | Mixed Choir | Symphonic Choir |
| Ceramics I, II, III, IV | Music Workshop | Symphony Orchestra |
| Concert Band | Painting and Drawing | Wind Ensemble |



- One year (5 credits) in $\mathbf{2 1}^{\text {st }}$ Century Life and Careers, or Career-Technical Education
$21^{\text {st }}$ Century Life and Career Courses:

| Academic Internship Program | Fundamentals of Automated Design |
| :--- | :--- |
| Accounting I, II | Home Improvement |
| AP Computer Science A | Introduction of Culinary Arts |
| AP Computer Science Principles | International Business |
| Applied Culinary Arts I, II | Introduction to Computer Science |
| The Art of Applied Nutrition | Introduction to Electronics |
| Business Law | Introduction to Marketing |
| Business: An Introduction | Keyboarding |
| Career Exploration and Awareness | AP Microeconomics |
| College Preparatory Accounting | AP Macroeconomics |
| Computer Aided Design Tech. I, II | Media Communications I, II, II, IV |
| Computer Applications | Multimedia Tech. \& Business Presentation |
| Computer Repair \& Tech. Support I, II | Notetaking \& Study Skills |
| Desktop Publishing | Photo Editing \& Web Design |
| Electronics | Photo Editing for Business |
| Engineering Computer Graphics I, II | Programming for Business |
| Family \& Child I, II | Programming for Business II |
| Family and Consumer Sciences | Space and Design |
| Fashion Design I, II, III | Today's Living |
| Financial Planning | Wood Design and Fabrication I, II, III |
| All Programs of Study at Somerset County Vocational Technical School |  |

- One-half year ( 2.5 credits) in Financial, Economic, Business, and Entrepreneurial Literacy

| Accounting I | Economics Today |
| :--- | :--- |
| AP Macroeconomics | Financial Planning |
| AP Microeconomics | Today's Living |
| Business: An Introduction |  |

- Technological Literacy - integrated throughout the curriculum
- One credit year of Physical Education, Health and Safety for each year of enrollment.
> In some instances, as determined by the high school principal in consultation with the Superintendent, students may meet specific credit and curriculum requirements through BOE Policy 5462, Option Two (refer to page 6 for more information).


## Requirements for Promotion

> 30 credits are required for placement in grade 10
> 60 credits are required for placement in grade 11
> 90 credits are required for placement in grade 12

## Option II

The New Jersey Department of Education (NJDOE) recognizes and acknowledges that all students will not achieve Core Curriculum Content Standards (CCCS) in the same manner and/or with the same level of success. To this end, the Bridgewater-Raritan Regional School District is permitted to allow students individualized learning opportunities outside of the traditional classroom that are stimulating and challenging and that enable students to meet or exceed the Core Curriculum Content Standards. This is commonly referred to as "Option II." Option II allows for the design and implementation of programs to meet the needs of all students. Students are permitted to earn credit toward graduation through Option II learning experiences. Credits toward graduation will be awarded only to students who have completed an $8^{\text {th }}$ grade program. Prior to the completion of $8^{\text {th }}$ grade, Option II may be utilized for the purpose of advancement only. These experiences include, but are not limited to: interdisciplinary or theme-based programs, independent study, early college credit, magnet programs, student exchange programs, distance learning, on-line learning, work-based programs, internships, service learning, co-curricular or extra-curricular programs, and/or other structured learning experiences. In addition, Option II allows for group programs based upon specific instructional objects that meet or exceed Core Curriculum Content Standards. Participation in Option II is predicated on the application process through which students seek approval. The process for application, evaluation, and assessment is detailed below. Attainment of credit toward graduation is based on the successful completion of assessments that verify student achievement in meeting or exceeding the Core Curriculum Content Standards at the high school level.

## Option II Credit Attainment

Students planning to pursue course work for credit external to the traditional offerings of BRHS curriculum are required to submit a completed application to the Principal's Option II Credit Review Committee. This committee will be comprised of the High School Principal, a designated Departmental Supervisor, Supervisor of School Counseling, and a designated School Counselor. Deadlines for submission are June $1^{\text {st }}$ for Summer and Fall Semester course work; January $1^{\text {st }}$ for Spring Semester course work. The Principal's Option II Credit Review Committee will review each application to determine eligibility and grant approval/disapproval based on the criteria outlined. Each student's application will be reviewed on its own merit. The committee will ensure that each student is on track to fulfill graduation requirements. The Assistant Superintendent will review all decisions of the committee.

Grades for approved Option II course work will be reflected on a student's transcript with the designation of "P" (Pass) or "U" (Fail). Upon approval, policies regarding the dropping of said course work will follow those procedures as outlined by the institution providing the course work and the procedures as outlined in the BRHS Program of Studies. Option II course work will not be included in the calculation of a student's overall Grade Point Average (GPA). Official transcripts generated by course work taken outside of BRHS may be attached to a student's BRHS transcript. Such requests must be made through the student's assigned school counselor. Once credit has been earned in an approved Option II course, students will not be permitted to enroll in an equivalent BRHS course.

## Credit Recovery

Students receiving a final grade of " $U$ " in a BRHS course do not receive credit. Students who fail to meet course requirements and/or meet attendance requirements receive a final grade of " NC " (no credit). In each case, credits towards graduation are not earned. Student options include the repeat of the course during the next school year; enrollment in an approved summer school program; or enrollment in an approved Option II alternative. Option II alternatives require approval by the Principal's Option II Credit Review Committee. Completed applications must be submitted by July 1' 2019. Registration for summer credit recovery courses must be completed by July 5, 2019. This includes traditional classroom and online credit recovery courses. All summer credit recovery courses must be completed by August 12, 2019. Students enrolled in an online credit recovery course are required to take the final exam for that course at BRHS. Final exams are available by appointment, weekdays only - August 6-12, 2019.

Credit Recovery courses require students to be enrolled for a minimum of 60 hours for a 5 credit course. Grades for completed Credit Recovery courses will be reflected on transcripts with the designation of "P" (Pass) or "U" (Fail). Approved courses dropped after the drop/add period will be recorded on BRHS transcripts as "W" (Withdrawn). Credit recovery courses are not included in the calculation of a student's overall GPA. The original course and final grade will be retained on the student's transcript. Appropriate credits will be applied toward graduation requirements. Credit recovery can be achieved through in-person or on-line coursework.

## Additional Credit; Acceleration Credit

A student may opt to enroll in Option II courses to include on his/her transcript and/or to accelerate a course level. A common example of accelerated coursework is the student who takes an additional mathematics course to advance to the next level of math. Additional credit, or acceleration can be achieved through in-person or on-line coursework. The following guidelines must be followed:

1. Completed applications must be received by the Principal's Option II Credit Review Committee by June $1^{\text {st }}$ for enrollment in a Summer or Fall Semester course; January $1^{\text {st }}$ for a Spring Semester course.
2. The course must be from an accredited institution and/or monitored by a certified staff member. Accreditation must be from a United States Department of Education recognized national or regional professional accrediting organization. Additional/Acceleration Credit courses must meet the 120 hour enrollment requirement for complete course advancement.
3. The course must be approved by the Principal's Option II Credit Review Committee.
4. Acceleration Credit courses must be completed by August 12, 2019. Students enrolled in an online, acceleration credit course are required to take the final exam for that course at BRHS. Final exams are available by appointment, weekdays only - August 6-12, 2019. Additional Credit courses must be completed within 9 (nine) months and prior to June 1, 2020. Please note that original, full credit Physical Education courses cannot begin until September $1^{\text {st }}$. New Jersey Administrative Code requires that students must be enrolled in a Physical Education course during the school year. This requirement does not apply to Health courses. An official transcript from the institution must be submitted promptly following the completion of the course. Grades for completed Additional/Acceleration Credit courses will be reflected on transcripts with the designation of "P" (Pass) or "U" (Fail). Approved courses dropped after the drop/add period will be recorded on BRHS transcripts as "W" (Withdrawn). Additional/Acceleration Credit courses are not included in the calculation of a student's overall GPA. Failure to submit an official transcript will result in the designation of "I" (Incomplete) on the student's BRHS transcript.
5. Permission to accelerate a course level is dependent on a final assessment as determined by the department supervisor. The assessment will be utilized to determine proficiency and the ability to succeed in the next level. The assessment does not impact the awarding of credit based on course completion. If deemed not to meet proficiency standards, credit earned will be applied as elective credit, and the student will be required to enroll in the next BRHS level course.

## College Credit

Students may opt to enroll in college level courses and apply credits earned toward high school graduation requirements. Students enrolling in college level courses must meet eligibility requirements as established by Board of Education BOE Policy 5462, Option Two and those established by the college or university. College credit can be achieved through inperson or on-line coursework. The following guidelines must be followed:

1. Completed applications must be received by the Principal's Option II Credit Review Committee by June $1^{\text {st }}$ for enrollment in a Summer or Fall Semester course; January $1^{\text {st }}$ for a Spring Semester course.
2. The course must be taken from a regionally accredited two or four year college/university.
3. The course must be approved by the Principal's Option II Credit Review Committee.
4. An official transcript from the college/university must be submitted promptly following the completion of the course. Grades for completed College Credit courses will be reflected on transcripts; however, the grade will not be included in the calculation of a student's overall GPA. Approved courses dropped after the drop/add period will be recorded on BRHS transcripts as "W" (Withdrawn). Failure to submit an official transcript will result in the designation of "I" (Incomplete) on the student's BRHS transcript.

## Independent Study

The Independent Study program at BRHS is intended for individuals who seek intense study in an academic area not currently offered by the BRHS curriculum. Independent studies may not replace a course listed in the BRHS Program of Studies. Independent Study credit can be achieved through in-person or on-line coursework. The following guidelines must be followed:

1. Completed applications, Option II and Independent Study, must be received by the Principal's Option II Credit Review Committee by June $1^{\text {st }}$ for enrollment in a Summer or Fall Semester Independent Study; January $1^{\text {st }}$ for a Spring Semester Independent Study. Independent Study applications are in addition to the Option II application. The Independent Study application provides specific details of requirements. See application for more information.
2. The course must be approved by the Principal's Option II Credit Review Committee.
3. A BRHS certified faculty member must serve as an advisor and be secured prior to the submission of required paperwork. Advisors are voluntary participants working collaboratively with the student to develop independent study goals. The responsibilities of student and advisor are detailed in the Independent Study application.
4. The Independent Study advisor is responsible for the final evaluation of the study and must submit verification that instructional objectives have been met. Grades for Independent Study courses will be reflected on transcripts with the designation of "P" (Pass) or "U" (Fail). Approved Independent Studies dropped after the drop/add period will be recorded on BRHS transcripts as "W" (Withdrawn). Independent Study courses are not included in the calculation of a student's overall GPA. Failure to submit a report by the advisor will result in the designation of "I" (Incomplete) on the student's BRHS transcript.

## Service Learning

Students are encouraged to seek opportunities within the community to complement their education through volunteering. Under Option II, students may apply credit from Service Learning to high school graduation requirements if approved in advance by the Principal. The following guidelines must be followed:

1. Completed applications, Option II and Service Learning, must be received by the Principal's Option II Credit Review Committee by June $1^{\text {st }}$ for enrollment in Summer or Fall Semester Service Learning; January $1^{\text {st }}$ for Spring Semester Service Learning. Service Learning applications are in addition to the Option II application. The Service Learning application provides specific details of requirements. See application for more information.
2. The Service Learning project must be approved by the Principal's Option II Credit Review Committee.
3. The student must have an approved mentor for the project.
4. The student must complete a self-reflection and learning outcome report at the conclusion of the service learning experience and submit it to his/her mentor. The mentor will include a copy of the report with his/her evaluation.
5. The Service Learning mentor is responsible for the final evaluation and must submit verification that service learning objectives have been met including a signed log of hours the student completed during the experience. Grades for Service Learning will be reflected on transcripts with the designation of "P" (Pass) or "U" (Fail). Approved Service Learning dropped after the drop/add period will be recorded on BRHS transcripts as "W" (Withdrawn). Service Learning will not be included in the calculation of a student's overall GPA. Failure to submit a report by the mentor will result in the designation of "I" (Incomplete) on the student's BRHS transcript.
6. Service Learning credit cannot be earned for providing assistance to a staff member.
7. A student may earn up to twenty (20) Service Learning Credits during his/her high school career.

## Alternative Physical Education

Students may pursue opportunities to meet the CCCS for Physical Education through participation in co-curricular or extra-curricular programs and/or through other structured learning experiences that involve substantial physical activity/exertion. Students should apply for consideration through the academic supervisor and Principal's Option II Committee. If approval is given, the student will be assigned a study hall during the period that would be scheduled for Physical Education during the marking period(s) for which an alternative experience has been approved. The student will be required to participate in the Health curriculum during the marking period in which Health would be scheduled.


## AP/Honors Courses

AP/Honors courses are available in specified courses in English, World Languages, Mathematics, Science, Fine Arts, Business, Performing Arts and Social Studies. These courses offer enrichment both in scope and exploration of material presented.
Students who wish to enroll in AP/Honors level courses must meet eligibility criteria as indicated in the next sections.

## 9th Grade Honors Courses

The following criteria will serve as the basis for eligibility to enroll in $9^{\text {th }}$ grade Honors level courses:

- Students currently enrolled in and maintaining a "B-" or higher average in Grade 8 E LAL will automatically be eligible to "roll up" into English 9 Honors.
- Students currently enrolled in and maintaining a "B-" or higher average in Grade 8 Geometry will automatically be eligible to "roll up" into Algebra II Honors.
- Students currently enrolled in and maintaining a "B-" or higher average in Grade 8 E Science will automatically be eligible to "roll up" into Biology Honors.
- Students currently enrolled in and maintaining a "B-" or higher average in Grade 8 E Social Studies will automatically be eligible to "roll up" into World Civilizations II Honors.
- Students currently enrolled in and maintaining an "A-" or higher average in a Grade 8 World Language course will be eligible to "roll up" into a World Language level II Honors course.
- Any students receiving an "A-" or higher grade for both Marking Period 1 and Marking Period 2 can pre-schedule for Honors in the corresponding subject area. Final scheduling of the Honors level course is contingent upon a year-end (final) grade of "A-" or higher.
- Students not meeting initial eligibility requirements and who have achieved a year-end (final) grade of "A-" or higher may submit an Course Request Change Form for Honors in the corresponding subject area. Change Forms must be submitted by July 1, 2019, and will not be accepted after this date.


## $10^{\text {th }}, 11^{\text {th }}$ and $12^{\text {th }}$ Grade AP/Honors Courses

## The following criteria will serve as the basis for eligibility to enroll in AP/Honors level courses:

- Students currently enrolled in an AP/Honors course and maintaining a "B-" or higher average are eligible to automatically "roll up" into the next year's AP/Honors course in the corresponding subject area.
- Students currently enrolled in an Academic level course and receiving an "A-" or higher grade for both Marking Period 1 and Marking Period 2 can pre-schedule for an AP/Honors course in the corresponding subject area. Final scheduling of the AP/Honors level course is contingent upon a year-end (final) grade of "A-" or higher.
- Students not meeting initial eligibility requirements and who have achieved a year-end (final) grade of "A-" or higher may submit an Course Request Change Form for AP/Honors in the corresponding subject area. Change Forms must be submitted by July 1, 2019, and will not be accepted after this date.



## Retention in AP/Honors Level Courses

Students in grades 9-12 enrolled in an AP/Honors course have the responsibility to maintain a grade of at least a "B-" in that course. The following level changes: from AP to Honors; from AP to Academic; and from Honors to Academic are permitted through the $3^{\text {rd }}$ school day after the posting of grades at the close of the first ( $1^{\text {st }}$ ) marking period (BOE Regulation 2464, Gifted and Talented Students).
All students should be aware of the following regarding AP/Honors level course changes:

- Students have the $\mathbf{1}^{\text {st }}$ MARKING PERIOD to determine the appropriateness of level placement. Course level changes are permitted through the $3^{\text {rd }}$ school day following the posting of grades at the close of the first $\left(1^{\text {st }}\right)$ marking period. After the completion of the $1^{\text {st }}$ Marking Period, students who have not opted for a level change or who have not been reassigned, will remain in their current course level placement for the duration of the school year. Mid-year level changes will not be permitted.
- Prior to the end of the $1^{\text {st }}$ marking period, students whose projected grade is a " $\mathrm{C}+$ " or lower, shall be counseled by the department supervisor, the teacher, and/or the school counselor, and the parent and student will make a decision regarding placement. If a student is reassigned to another full year course, the student will begin the course with the letter grade associated with the weighted grade of the higher level course. The student will receive grades for the second, third, and fourth marking periods from the receiving teacher. The transcript will reflect the name of the course the student was enrolled in at the conclusion of the year.
- Students who earn a grade of " $\mathrm{D}+$ " or lower in an AP or Honors course for the $1^{\text {st }}$ Marking Period shall be counseled by the department supervisor, the teacher, and/or the school counselor, and the parent and student will make a decision regarding continued placement which can include moving into a course that can be a minimum of one academic level lower (e.g., AP to Honors, Honors to Academic). The grade from the AP/Honors level course will move with the student to the new course with the weighted grade of the higher level course. The student will receive grades for the second, third, and fourth marking periods from the receiving teacher. The transcript will reflect the name of the course the student was enrolled in at the conclusion of the year.
- Continued eligibility for the next school year in an AP/Honors level course is contingent upon the receipt of a final grade (transcript grade) of "B-" or higher in the corresponding subject area. Students earning a final grade of " $\mathrm{C}+$ " or lower will be ineligible to continue in that subject area. Students reserve the right to submit an Appeal Form at the conclusion of the school year to petition for continued enrollment. Approval of the appeal is contingent on the extenuating circumstances presented. Appeal Forms must be submitted by July 15, 2019. Appeals will not be accepted after this date.


## Advanced Placement Program

The Advanced Placement (AP) Program, in cooperation with the CollegeBoard, extends educational opportunities to students who wish to be challenged by college-level courses. Appropriate credit and placement at many colleges may occur as a result of scores achieved on Advanced Placement Examinations.

Currently, Advanced Placement courses are available in Art History, Biology, Calculus, Chemistry, Chinese, Computer Science, Computer Science Principles, English, Environmental Science, European History, French, German, Government \& Politics, Italian, Latin, Macroeconomics, Microeconomics, Music Theory, Physics, Probability \& Statistics, Psychology, Research, Seminar, Spanish, Studio Art, and United States History. Students accepted into the Advanced Placement courses are expected to take the AP examination at the end of the year.
Please note that all students must meet eligibility requirements for AP Macroeconomics and/or AP Microeconomics regardless of current enrollment in any AP/Honors level course. Eligibility is based upon final grades earned in both English and Mathematics courses. Grades of "B-" or higher must be earned in AP/Honors English/Mathematics level courses or "A-" or higher in Academic level English/Mathematics courses.
Retention in Advanced Placement courses follows the Retention in AP/Honors Level Courses definition (see above). Students enrolling in Advanced Placement courses that do not have a respective academic course and seek to drop the Advancement Placement course after the allotted time in drop/change policy are eligible for a withdraw (W) or may remain in the AP course to earn a grade higher than a failure.

## AP Capstone Diploma ${ }^{\text {TM }}$

AP Capstone ${ }^{\text {TM }}$ is a diploma program based on two AP courses: AP Seminar and AP Research. These yearlong courses focus on developing the critical thinking, research, collaboration, time management, and presentation skills needed for college-level work. AP Capstone ${ }^{T \mathrm{M}}$ fosters the research, argumentation, and communication skills at the core of college readiness and lifelong learning. AP Capstone ${ }^{T \mathrm{TM}}$ let's students show colleges that they have challenged themselves academically and illustrate their passion and interest in specific research topics. Students may earn an $\boldsymbol{A P}$ Capstone ${ }^{\text {TM }}$ designation on his/her diploma following the successful completion of AP Seminar, AP Research [earned AP Exam score of 3 (three) or higher on each] and the successful completion of any combination of 4 (four) AP courses [earned AP Exam score of 3 (three) or higher on each]. AP Seminar and AP Research course descriptions are available on page 51.

## AP Capstone



## Academic/Standard Courses

Academic courses are designed to prepare students for the demands of higher learning beyond high school. Whereas standard level courses, which are placement decisions made by department supervisors through collaboration with school counselors, are designed to meet the needs of students who would benefit from a more moderate pacing of the curriculum in addition to a focus on skill mastery. If a standard level course is appropriate for a student, the school counselor will bring it to his or her attention.

## National Honor Society

Membership in the National Honor Society is an honor bestowed upon a student. Selection for membership is by a faculty council and is based on leadership, service, character, and outstanding scholarship (minimum 3.5 grade point average rounded to the hundredths on a 4.33 weighted scale: all courses are factored in computing grade point average).

NOTE: Refer to student handbook for further information.


## Academic Achievement Certification Program

The Academic Achievement Certificate Program is designed to provide a list of the knowledge that a student has acquired in a certain area of study. Each certificate will list the area of concentration and the courses taken. The certificate will be signed by the Principal and the department supervisor and will be suitable for college and business entrance portfolios. To receive a certificate the student must achieve a grade of " C " or better in the courses listed under each area noted below. With a wise choice of electives, a student could qualify for two certificates. The Academic Achievement areas and their required courses are:

## Computer Technology

Computer Applications
Photo Editing and Web Design
Multimedia \& Business Presentations
Computer Repair \& Maintenance
Keyboarding
Advanced Photo Editing for Business or
Advanced Programming for Business
Programming for Business

## Business Administration

Business Law/ Economics
International Business
Financial Planning
Introduction to Business or Economics
Computer Applications or
Photo Editing and Web Design
Introduction to Marketing

## Office Technology

Computer Applications
Career Exploration and Awareness
Academic Internship Program
Keyboarding

## Academic Internship Program

The Academic Internship Program is a senior-level program designed for the student who wants to prepare for a career by gaining valuable work experience in a business environment. This program is designed to provide on-the-job training in an office-related occupation that corresponds with a student's career objective. This unique program capitalizes on a high level of student motivation and gives the student the opportunity to "learn by doing." Please refer to page 28 for a course description under Business Education.

The internship provides background in a particular career for students planning to further their education following graduation from high school. The course is designed to provide students with a year of valuable work experience that will put them ahead of other beginning college freshmen.

Students are to report to work placements for the final two periods of the day. In addition to the afternoon work experience, students will attend a related class in the morning to further develop their office skills and to obtain guidance in adjusting from the school environment to the world of work.
An application is required for admission to the program. Please submit the completed application to the program coordinator or to the school counselor. Students admitted must be employed within the first two (2) weeks of the start of school. Failure to be employed will result in removal from the program and the student completing a full (9 period) schedule.

## Connections with Raritan Valley Community College

Opportunities are available to Sophomore, Junior, and Senior students to earn college credit through Raritan Valley Community College while enrolled in High School. Students completing courses will receive an official Raritan Valley transcript. Please note that college credit is accepted at the discretion of individual institutions and may not be directly transferable to other institutions of higher learning.
In order to be eligible, a student must be of at least Sophomore status, have a cumulative GPA of at least a 3.0, satisfactory scores on Raritan Valley placement tests or minimum scores on SAT, parental permission, completion of prerequisites, and school counselor approval.
Three options are available to eligible students: Concurrent Enrollment (CEP); Dual Enrollment; or Early Credit. Bridgewater-Raritan High School currently offers Concurrent Enrollment courses through its English and mathematics departments entitled English Language and Literature IV CEP (please refer to page 35 for a course description) and PreCalculus Academic CEP (please refer to page 56 for a course description). Enrollment in Early Credit courses is dependent on the availability of the student and college. Dual Enrollment and Early Credit courses may be applied toward high school graduation requirements (please refer to Option II guidelines). Please see your school counselor for additional information or for an application. More information is also available at the following link:

## http://www.raritanval.edu/pstudents/earlycredits.html

## Connections with Rider University

Collaboration between Rider University Communications Department and Bridgewater-Raritan's Media Communications Faculty has resulted in the opportunity for students to earn college credits. Students completing the necessary coursework can apply for three credits in COM 131 Fundamentals of Video Production, which will appear on an official Rider University transcript. Please note that college credit is accepted at the discretion of individual institutions and may not be directly transferable to other institutions of higher learning.

In order to be eligible, a student must complete Media Communications I through IV prior to graduation with a grade of " B " or better in all courses and apply within 27 months of graduation from Bridgewater. Once they have completed all of the courses, they can apply for Advanced Standing Credit through Rider's Department of Communications and Journalism.

It is abundantly apparent in this age of information that media plays an important role in the development of societal norms and mores. As the field of Media Communications increasingly expands it continues to shape our society and affect careers beyond the discipline of communications alone. The quality of Bridgewater's Media Communications curriculum is demonstrated by Rider University's willingness to convey university level credits on our students. For more information, please see a faculty member of the Media Communication Department or visit following link:

## http://www.rider.edu/172_9679.htm

## Connections with Fairleigh Dickinson University

Collaboration between Fairleigh Dickinson University's Middle College and Bridgewater-Raritan's Accounting 2 Business Education faculty has resulted in the opportunity for students to earn college credits. Students completing the necessary coursework can apply for 3 credits in Acct 2021-32 Introduction to Financial Accounting, which will appear on a regular Fairleigh Dickinson University transcript. These credits will be good at both FDU and accepting universities; note that college credit is accepted at the discretion of individual institutions

In order to be eligible, a student must complete Accounting $1 \& 2$ prior to graduation with a grade of B or better. Students will complete necessary application and tuition fee to FDU's Middle College in September at the start of Accounting 2. Teacher then reports grades in June to FDU for approval.

It is our belief in a capitalist economic system that creates a high standard of societal living and thus drives many high school students to study Business at the college level. The quality of Bridgewater's Business Education curriculum is demonstrated by Fairleigh Dickinson's willingness to convey university level credits on our students. For more information, please see a faculty member of the Business Education Department or visit the following link:

## Preparation for College Entrance

The philosophies of education, specific course requirements, and other qualifications for acceptance vary among the nation's colleges and universities. All, however, recognize the desirability of a broad education with a strong foundation in the traditional, solid academic subjects.
Students are evaluated for admission not only in terms of grades achieved, but also with respect to the strength of the academic program undertaken. Students are encouraged to take the strongest possible academic program available within his/her own personal limitations during all four years of high school. A rigorous secondary school preparation remains the best means by which a student can be assured of maximizing the benefits to be derived from a challenging college education.

## Admission to College

Admission to college can be quite competitive. In order to ensure consideration by a college admissions committee, students are encouraged to begin planning for college in the eighth grade by giving serious deliberation to course selections for high school.

Each college has its own admission requirements and sets its own priorities. When students apply to college, the Admissions Office compiles information regarding specific applicants in an individual folder. This information is reviewed and given much consideration by the college as it makes decisions regarding admissions. There are four main areas normally considered:

1. Academic record and school recommendation
2. Standardized test scores
3. Activities
4. Unique characteristics of the applicant

## College Entrance Unit

A college entrance unit is the equivalent of one full-year, academic class at BRHS ( 5 credits or 6 credits in the case of a lab science). A semester class ( 2.5 credits) equals one-half of a college entrance unit. The minimum for college admission is usually 16 units. This means carrying a minimum of four academic courses (English, mathematics, science, social studies, and/or world language) each year of high school.
The following table reflects the average number of academic units earned by the BRHS 2018 graduating students. The categories across the top are designated according to the Barron's College Admissions Selector (2016) and student matriculation. Examples: "Most Competitive" - Duke, Harvard, and Princeton; "Highly Competitive" - TCNJ, Lafayette, and Stony Brook; "Very Competitive" - Delaware, Penn State, and Rutgers.

|  | BRRSD <br> Grad Req. | Very <br> Competitive | Highly <br> Competitive | Most <br> Competitive |
| :--- | :---: | :---: | :---: | :---: |
| Students |  | 180 | 117 | 61 |
| English | 4 | 4.30 | 4.40 | 4.21 |
| Mathematics | 3 | 4.51 | 4.60 | 4.97 |
| Science | 3 | 4.53 | 4.41 | 4.57 |
| Social Studies | 3 | 4.12 | 4.33 | 4.39 |
| World Language | 1 | 3.27 | 3.43 | 3.66 |
| Fine/Performing Arts | 1 | 1.70 | 1.96 | 2.37 |
| AP Classes | NA | 3.11 | 4.15 | 7.52 |
| AP \& Honors Classes | NA | 7.39 | 10.23 | 17.39 |
| Weighted GPA | NA | 3.68 | 3.92 | 4.30 |

## College Entrance Examinations

The vast majority of colleges require that a student take one or more standardized tests for admission. The number depends on the college's policy. It is important to remember that test scores are just one part of the total applicant profile. At most institutions, test scores alone do not exclude a student from admission, nor do scores alone guarantee admission. The two most common test programs are the SAT and the ACT. Most students take the SAT. Consult with your counselor regarding the ACT. Also available is the Preliminary SAT (PSAT). Colleges may also require or recommend SAT Subject tests. SAT Subject tests are one hour for each subject area. You may take one to three tests on any given test date. It is the student's responsibility to register for all tests and to arrange for the results to be sent to the institution(s) of choice. The following tables provide a description of each standardized test and the recommended time in which to take the test.

## Standardized College Admission Tests

| Test | Description* | Course Work Preparation* | When to take: |
| :---: | :---: | :---: | :---: |
| PSAT | The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is a standardized test that provides firsthand practice for the SAT. The PSAT/NMSQT measures: critical reading skills; math problem-solving skills; and writing skills. <br> - The critical reading section measures knowledge of the meanings of words, the ability to understand how the different parts of a sentence logically fit together and the ability to read and think carefully about a single reading passage or a pair of related passages. <br> - The mathematics section requires a basic knowledge of number and operation; algebra and functions; geometry and measurement; and data analysis, statistics, and probability. <br> - The writing skills section measures the ability to express ideas effectively in standard-written English, to recognize faults in usage and structure, and to use language with sensitivity to meaning. | - Taking the most challenging courses students can handle <br> - Reading widely <br> - Writing frequently <br> - Studying hard <br> - Involvement in problem-solving activities through clubs, sports, hobbies, part-time jobs, etc. | Fall of freshman, Spring of sophomore and/or Fall of junior year <br> Only junior year scores are used for NMSC consideration |
| SAT | The SAT is a college admission test that asks the student to apply a deep understanding of the knowledge and skills most important for college and career readiness and success. The test is composed of three sections: EvidenceBased Reading Test; Writing and Language Test; and a Mathematics Test. There is also an optional Essay. <br> - The Reading Test measures comprehension and reasoning skills with a focus on careful reading of appropriately challenging passages in a wide array of subject areas. <br> - The Writing and Language Test assesses skills in revising and editing a range of texts in a variety of subject areas to improve expression of ideas and to correct errors in grammar, usage, and punctuation. <br> - The Math Test measures the ability to problem solve and uses appropriate approaches and tools strategically. It measures math skills across four areas: Heart of Algebra; Problem Solving and Data Analysis; Passport to Advanced Math; and additional Topics in Math (covering relevant concepts learned in high school math, such as the Pythagorean Theorem). <br> - The Essay (optional) measures the ability to read and analyze an argument and write an effective response. | - Taking the most challenging courses students can handle <br> - Reading widely <br> - Writing frequently <br> - Studying hard <br> - Involvement in problem-solving activities through clubs, sports, hobbies, part-time jobs, etc. | Spring of junior year Fall of senior year |

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## Standardized College Admission Tests (cont.)

| Test | Description* | Course Work Preparation* | When to take: |
| :---: | :---: | :---: | :---: |
| ACT | The ACT is curriculum based. The questions on the ACT are directly related to what students have learned in high school courses. The test is comprised of four sections: English Test; Mathematics Test; Reading Test; and the Science Test. There is also an optional Writing Test. <br> - The English Test measures standard written English (punctuation, grammar and usage, and sentence structure) and rhetorical skills (strategy, organization, and style). <br> - The Mathematics Test measures mathematical skills students have typically acquired in courses taken up to the beginning of grade 12. <br> - The Reading Test measures reading comprehension <br> - The Science Test measures the interpretation, analysis, evaluation, reasoning, and problem-solving skills required in the natural sciences. <br> - The Writing Test (optional) measures writing skills emphasized in high school English classes and in entrylevel college composition. | - For English: course content that includes punctuation, grammar and usage, sentence structure, strategy, organization, and style <br> - For Mathematics: course content that includes pre-algebra, elementary algebra, intermediate algebra, coordinate geometry, plane geometry, and trigonometry <br> - For Reading: course content based on four types of reading selections: the social studies, the natural sciences, prose fiction, and the humanities <br> - For Science: courses in biology, chemistry, physics, the Earth/space sciences; emphasized are scientific reasoning skills <br> - For Writing: courses that develop writing skills | Spring of junior year Fall of senior year |

## SAT Subject Tests

| Subject | Description* | Course Work Preparation* | When to take: |
| :---: | :---: | :---: | :---: |
| Literature | - Assesses how well the student has learned to read and interpret literature <br> - Covers poetry, prose, and drama in English and American literature from the Renaissance to the present | - Three or four years of collegepreparatory (academic) literary study | Best results if taken after AP Language and Composition and during AP Literature; could be taken after $11^{\text {th }}$ grade Honors English or during $12^{\text {th }}$ grade Honors English |
| United States History | - Assesses knowledge of and ability to use material commonly taught in US History and social studies courses in high school <br> - Covers political, economic, social, intellectual and cultural history as well as foreign policy from Pre-Columbian history to the present | - One year college-preparatory (academic) US history course | Best results if taken after AP US History II, but could be taken after Honors US History II |
| World History | - Assesses understanding of key developments in global history, the application and weighing of evidence, and the ability to interpret and generalize <br> - Covers the development of major world cultures, from ancient times to the present, in all historical fields: political and diplomatic, intellectual and cultural, and social and economic | - One year college-preparatory (academic) world history course | Best results if taken after Honors World Civilization II or during AP European History |

[^1]
## SAT Subject Tests (cont.)

| Subject | Description* | Course Work Preparation* | When to take: |
| :---: | :---: | :---: | :---: |
| Mathematics Level 1 | - Assesses mathematics knowledge through the first three years of college-preparatory (academic) mathematics course work | - Three years collegepreparatory (academic) mathematics <br> - Two years algebra <br> - One year geometry | Best results after taking Algebra I, Geometry and Algebra II |
| Mathematics Level 2 | - Assesses mathematics knowledge through the first three years of college-preparatory (academic) mathematics course work and Precalculus | - More than three years collegepreparatory (academic) mathematics <br> - Two years algebra <br> - One year geometry <br> - Elementary functions (Precalculus) and/or trigonometry | Best results after taking Precalculus |
| Biology <br> (Ecological/Molecular) | - Assesses understanding of general biology <br> - Covers knowledge of fundamental concepts, application and interpretation skills <br> - Biology E focuses on biological communities, populations and energy flow <br> - Biology M focuses on biochemistry, cellular structure and processes, such as respiration and photosynthesis | - One year college-preparatory (academic) course in biology <br> - One year course in algebra and familiarity with simple algebraic concepts such as ratios, and direct and inverse proportions <br> - Laboratory experience is helpful | Best results if taken after AP Biology, but good results if taken after Honors Biology |
| Chemistry | - Covers the major concepts of chemistry and the ability to apply these concepts in problem-solving scenarios <br> - Requires the ability to organize and interpret results obtained by observation and experimentation | - One year college-preparatory (academic) course in chemistry <br> - Familiarity with simple algebraic relationships and applying these to solving word problems <br> - Familiarity with concepts of ratio, and direct and inverse proportions, exponents, and scientific notation <br> - Laboratory experience is helpful | Best results if taken after AP Chemistry, but good results if taken after Honors Chemistry. |
| Physics | - Assesses the understanding of the major concepts of physics and the ability to apply physical principles to solve specific problems | - One year college-preparatory (academic) course in physics <br> - Familiarity with simple algebraic trigonometric and graphical relationships, as well as the concepts of ratio and proportion, and the ability to apply these to physics problems <br> - Laboratory experience is helpful | Best results if taken after AP Physics 2, but good results if taken after AP Physics C. Can also be taken after Honors Physics |
| Languages (Reading only): French, German, Italian, Latin, Modern Hebrew, Spanish <br> Languages with Listening: Chinese, French, German, Japanese, Korean, Spanish | - Assesses the ability to read by testing vocabulary use, language structure and comprehension of a variety of texts <br> - Listening tests assess listening comprehension | - Two to four years of study in high school or the equivalent, or two years of strong preparation | Best results if taken during (Language) levels V-A, IV-H or AP <br> For Modern Hebrew, Japanese, or Korean: take if studied extensively outside of BRHS |

## NCAA College-Bound Student-Athletes

The National Collegiate Athletic Association (NCAA) has specific academic requirements for students to be eligible to participate in athletics at the Division I or II collegiate level. It is the responsibility of the student and parent/guardian to ensure compliance with all NCAA eligibility requirements. It is recommended that students/parents/guardians consult with the Counseling Department beginning with $9^{\text {th }}$ grade course selection. NCAA eligibility requirements are based on course enrollment (core courses), test scores (ACT/SAT), and corecourse grade point average (GPA). Minimum requirements are based on collegiate level of play - Division I or II.
For more information, please visit the NCAA Eligibility website at:

> http://web3.ncaa.org/ECWR2/NCAA_EMS/NCAA_EMS.htm|\#.

You may also access a quick reference sheet of initial eligibility requirements at:
http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf

## Class Rank

The academic environment in Bridgewater-Raritan Regional High School is very challenging. The majority of our students meet that challenge by earning exemplary grades. However, we believe the comparisons among students inherent in rank-in-class calculations unnecessarily increase competition within the school; further, we believe that our students' levels of achievement are not equitably or fully communicated by this single transcript statistic. The BridgewaterRaritan Board of Education Policy, therefore, precludes the reporting of class rank for the college application process. Note, upon college acceptance class rank will be made available if requested by the college/university to determine college financial aid and scholarship eligibility. This information will only be made available to the inquiring institution.

## Department of School Counseling

## What is the Department of School Counseling, and what does it do for students?

The Department of School Counseling consists of a Supervisor of School Counseling, School Counselors and clerical staff all dedicated and trained to provide counseling and educational services for students. These services can be categorized into three major functions: 1) counseling; 2) consulting; and 3) information management.

## What is a School Counselor?

High school years are full of growth, promise, excitement, frustration, disappointment, and hope. It is the time when students begin to discover what the future holds for them. School counselors enhance the learning process and promote academic achievement. School counseling programs are essential for students to achieve optimal personal growth, to acquire positive social skills and values, to set appropriate career goals, and to realize full academic potential to become productive, contributing members of the world community. The professional high school counselor holds a master's degree and requires state certification in school counseling.

## What will my counselor do for me?

The services that you receive from your counselor are varied and to a great extent depend upon you. You should never hesitate to see your counselor for any reason. Depending on your individual needs, your counselor can help: assess your strengths and limitations; assist in decisions; discover special talents and abilities; aide in planning your education; decide on a career; ... and more!

## When can I see my counselor?

Any time you are free, drop in on your counselor, for anything from a quick question to a personal conference. Because counselors deal with many students and are involved in other educationally related activities, they are not always free to see you instantly. To ensure that your counselor is available and free to see you, you should sign up for a conference in the main School Counseling Office. If you feel it is an emergency, please indicate that to the secretaries. (Some hints: Don't come from a class without the teacher's permission. Don't leave without a pass ... and ... Don't sit for periods waiting to see your counselor if he/she is not expecting you.)

## What basic School Counseling services does my counselor provide each year?

By now you probably understand the extent of the services offered and how they can meet your individual needs and requests; however, there are certain basic services offered to everyone, each year.

For Freshmen: transitioning to high school; discussing your academic progress with an emphasis on study skills and time management; planning; and selecting courses for your sophomore year.
For Sophomores: reviewing your academic progress; extensive career planning; helping to plan your future; and selecting courses for your junior year.

For Juniors: discussing your progress with emphasis on your strengths and limitations; planning for further education; attending college and career conferences; selecting courses for your senior year; and providing informational services.

For Seniors: in-depth planning meetings with counselors; providing informational services; assisting with applications for further education, jobs and scholarships; and discussing academic progress through graduation.

## Special Services Programs

Special Services are designed to support students who have been identified as having learning differences. Following a Child Study Team evaluation and the determination of eligibility for special education and related services, an Individual Education Program (IEP) is developed by members of an IEP team, which includes a member(s) of the Child Study Team, parent(s), teacher(s), and the student.
A variety of services are offered at Bridgewater-Raritan High School, with determination for services based on the individual needs of the student. These services include:

1. In-Class Resource is a collaborative teaching model which provides supportive services to students with IEPs in the general education environment. Students are expected to meet the expectations of the course requirements. Students may require accommodations or modifications as determined by the IEP team.
2. Resource program replacement instruction occurs outside the general education classroom in a small group setting. Students are expected to complete the requirements for the course based on the general education requirements. Instructional pacing, reteaching of skills, and a lower teacher-student ratio enables student to progress through the curriculum.
3. The Work Study Program is offered for students in their junior or senior year. Students in the Work Study Program progress toward a career goal and earn graduation credit through a combination of classroom job-related instruction and part-time employment. Students are assisted with job placements. The special education teacher supervises each student by visiting job sites and meeting with job supervisors.
4. Departmentalized content area courses are designed to support students with developmental disabilities. Classes include instruction in Language Arts, Mathematics, Sciences, Social Studies, Employment Orientation and Life Skills. Employment Orientation provides students with transition from school to work experiences and helps develop positive work attitudes and ethics. Students are given opportunities to work in various on-campus job sites, some of which include office occupations, mail delivery, and food services. Additionally, Career and Community Exploration and the School to Employment Program (STEP) offer students the opportunity to job-sample in the community at supported work-sites.
5. The School to Employment Program (STEP) is a transitional class for students who require supervised assistance in employment. The students in the STEP program participate in job sampling opportunities in a variety of community work sites with related employment activities at BRHS. They are supported by certified special education teachers and paraprofessional job coaches.

All special education classes are instructed by teachers holding the appropriate NJ certifications.

## Master Schedule

The high school's master schedule and staffing patterns are determined by the course selections of the students. Every attempt is made to accommodate each student's requests. However, due to the complexities inherent in building a master schedule for a school our size, conflicts arise which result in the school's inability to fulfill all requests. Board of Education policy indicates that each course must have a minimum of 15 students to be offered. There may be occasions when a course will not be offered due to insufficient enrollment. This will necessitate the selection of an alternate request. Students are provided an opportunity to resolve conflicts within their schedules during the summer prior to the beginning of school. Following the start of school, schedule changes must follow the procedures outlined below.

## Scheduling Procedures

The process of selecting an academic program is one in which many people are involved and which requires several months of preparation and consultation. Class size considerations and staffing are determined by initial student course requests. Student course selections are made after serious deliberation among student, parents, faculty, and counselor. The selection program is designed to meet the student's personal and educational needs and goals. All students will engage in an online registration process in which core (English Mathematics, Science, Social Studies) content and elective course requests are selected by the individual student. Incoming freshmen (current $8^{\text {th }}$ grade students) will register for elective courses only during the week of February $4-10,2019$. Upper classmen, grades $9-11$, will register for all courses during the period February $15-25$, 2019. Changes to individual student course requests will not be accepted after the close of scheduling meetings with assigned school counselor, therefore, it is essential that the original selections are given careful and thoughtful consideration. Scheduling meetings with school counselors will begin on February 19, 2019, and conclude on March 29, 2019. Changes to course requests will not be permitted after this date. Students will receive a copy of their 2019-2020 schedules prior to the start of school. Please note that the schedule received is tentative and subject to change without notice. The basis for such changes are a result of systemic needs, e.g., to balance sections of courses, programmatic changes, and staffing patterns.

Once courses have been selected, the need for program changes is recognized only under special circumstances. Scheduling problems/errors, and course conflicts are given the highest priority. The following illustrates the type of schedule changes permitted:

Type 1 - Scheduling Error adjustments should be made as soon as possible. Examples of Type $\mathbf{1}$ changes are:

- period or course conflicts
- data entry error, e.g. student has wrong course on schedule
- absence of a lunch
- open period


## Type 2 - Program Change:

- student going into or out of a vo-tech sharetime program
- approved early graduation
- student completed an approved Option II program (Credit Recovery and/or Accelerated Credit) that necessitates a modified schedule
- student adding an approved independent study program or service learning experience


## Type 3 - Departmental Change

- level changes, e.g. French II Academic to French II Honors, or Algebra I to Essentials of Algebra I etc.

Type 3 changes stake place only after consultation with the student, parent, counselor, teacher, and supervisor.
The policy of Bridgewater-Raritan High School is not to make preference-based or lateral course changes. Examples are, but not limited to: requests for a different teacher; requests to change lunch to a different period; request to enroll in an academic course earlier (or later in the day); sibling had an unpleasant experience with a particular teacher.

## Procedure for Dropping a Course

The dropping of a course is a serious matter and is generally discouraged; such an action should be done only after much thought and consultation takes place. The request to drop a course must be in writing by the parent or guardian unless the student is his/her own agent.

## > Semester Courses

- Requests to drop a semester course will be considered through the first three (3) weeks after the start of the first and/or third marking periods provided the student would still be scheduled for 35 credits, a minimum of 7 (seven) courses are scheduled in the semester (BOE Policy 5410, Promotion and Retention), (not applicable to Seniors), has the permission of the parent/guardian, and has consulted with his/her assigned counselor. This course will be deleted.
- After the three (3) week period courses may be dropped provided the student would still be scheduled for 35 credits, a minimum of 7 (seven) courses are scheduled in the semester (BOE Policy 5410, Promotion and Retention) (not applicable to Seniors), has the permission of the parent/guardian, and has consulted with his/her assigned counselor and the department supervisor. The transcript will then indicate " W " (withdrawn).


## > Full-Year Courses

- Requests to drop a full-year course will be considered through the third school day following the posting of grades at the close of the first marking period and provided the student will still be scheduled for 35 credits, a minimum of 7 (seven) courses are scheduled in the semester (BOE Policy 5410, Promotion and Retention) (not applicable to Seniors), has the permission of the parent/guardian, and has consulted with his/her assigned counselor and the department supervisor. The course will be deleted.
- After the third school day following the close of the first marking period courses may be dropped provided the student would still be scheduled for 35 credits, a minimum of 7 (seven) courses are scheduled in the semester (BOE Policy 5410, Promotion and Retention) (not applicable to Seniors), has the permission of the parent/guardian, and has consulted with his/her assigned counselor, teacher and the department supervisor. The transcript will then indicate "W" (withdrawn).
- Voluntary level changes in which a student moves from a more rigorous level to a less rigorous level (e.g. moving from Advanced Placement to Honors or Honors to Academic) may only take place through the third day following the posting of grades at the close of the first ( $1^{\text {st }}$ ) marking period (BOE Regulation 2464, Gifted and Talented Students).


## Procedure for Entering a Course

A student may request to enter a course provided the student has parental approval and the course has space for an additional student.
> Semester Courses

- A student may enter a new course up to three weeks after the start of the semester. Priorities for Fall semester will be as follows: Seniors may begin adding a course on September $9^{\text {th }}$; Juniors on September $11^{\text {th }}$; Sophomores and Freshmen on September $13^{\text {th }}$; ending on September $26^{\text {th }}$. For the Spring semester: Seniors on February $3^{\text {rd }}$; Juniors on February $5^{\text {th }}$; and Sophomores and Freshmen on February $7^{\text {th }}$; ending on February $21^{\text {st }}$.
> Full Year Course
- A student may enter a new full-year course up to five weeks after the start of the school year. This includes entering a more rigorous level of an existing course, providing the student has met the eligibility requirements. (e.g., moving from Academic to Honors or Advanced Placement). The add period will cease on October $10^{\text {th }}$.


## > Auditing Courses*

- Students will be given the privilege of auditing courses under the following circumstances:

1. Permission from the parent
2. Permission from the teacher
3. Permission from the department supervisor
4. Permission from the counselor

- Requests to audit semester courses will be considered through the seventh week of the semester.
- Requests to audit full-year courses will be considered through the twelfth week of the course.
- Courses audited will be noted on report cards and transcripts in the grade column as "AU".
*Auditors have the same responsibilities in the class as any other student and may not detract from the performance of the regular students in the class.


## Subject Offerings by Grade

Students may generally elect any subject listed in a previous grade as long as they have completed all prerequisites for that subject.

Key: High School Credit = Credit toward high school diploma
$X=$ Grade in which course is offered.
$\mathbf{S}=$ Standard Level $\quad \mathbf{A}=$ Academic $\quad \mathbf{H}=$ Honors $\quad \mathbf{A P}=$ Advanced Placement $\quad \mathbf{C E P}=$ Concurrent Enrollment Program

| Course Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| Eng/ish |  |  |  |  |  |  |  |
| HLA50539 | AP English Language \& Composition III | 5 |  |  | X |  | 30 |
| HLA50570 | AP English Literature and Composition IV | 5 |  |  |  | X | 31 |
| $\begin{aligned} & \text { HLA10541 (A) } \\ & \text { HLA30540 (H) } \\ & \text { HLA60569 (S) } \\ & \hline \end{aligned}$ | English Language \& Literature I - A, H, S | 5 | X |  |  |  | 31 |
| $\begin{aligned} & \text { HLA10555 (A) } \\ & \text { HLA30544 (H) } \\ & \text { HLA60599 (S) } \\ & \hline \end{aligned}$ | English Language \& Literature II - A, H, S | 5 |  | X |  |  | 31 |
| $\begin{aligned} & \text { HLA10558 (A) } \\ & \text { HLA30557 (H) } \\ & \text { HLA60547 (S) } \end{aligned}$ | English Language \& Literature III - A, H, S | 5 |  |  | X |  | 31-32 |
| $\begin{aligned} & \text { HLA10562 (A) } \\ & \text { HLA30561 (H) } \\ & \text { HLA60563 (S) } \\ & \hline \end{aligned}$ | English Language \& Literature IV - A, H, S | 5 |  |  |  | X | 31-32 |
| $\begin{aligned} & \text { HLA10577 (A) } \\ & \text { HLA30574 (H) } \end{aligned}$ | English Language \& Literature IV CEP - A | 5 |  |  |  | X | 32 |
| HLA60748 | ESL I - Grammar \& Conversation | 10 Elective | X | X | X | X | 32 |
| HLA60750 | ESL II - Grammar \& Conversation | 10 Elective | X | X | X | X | 32 |
| HLA60747 | ESL III - Reading \& Writing | 5 Elective | X | X | X | X | 32 |
| HLA60462 | English Language \& Literature SI | 5 English | X | X | X | X | 32 |
| HLA60551 | English Language \& Literature T I | 5 English | X | X | X | X | 33 |
| HLA60596 | English Language \& Literature T II | 5 English | X | X | X | X | 33 |
| (Electives) |  |  |  |  |  |  |  |
| HLA20505 | American Film Study | 2.5 |  |  | X | X | 33 |
| HLA40555 | Comprehensive Creative Writing - A | 5 |  |  | X | X | 33 |
| HLA20568 | Drama | 2.5 | X | X | X | X | 33 |
| HLA20575 | Forensics - A | 2.5 | X | X | X | X | 34 |
| HLA20555 | Introduction to Creative Writing - A | 2.5 | X | X | X | X | 34 |
| HLA20569 | Introduction to Screenwriting | 2.5 |  |  | X | X | 34 |
| HLA20566 | Journalism - A | 2.5 | X | X | X | X | 34 |
| HLA20597 | Kid Lit Literacy | 2.5 | X | X | X | X | 34 |
| HLA60589 | Literacy Support 11 | 5 |  |  | X |  | 34 |
| HLA60593 | Literacy Support 12 | 2.5 |  |  |  | X | 34 |
| HLA20554 | LP: Lyrical Poetry | 2.5 | X | X | X | X | 34 |
| HLA40553 | Publication Development \& Production | 5 | X | X | X | X | 35 |
| HLA20595 | Reading Animation | 2.5 | X | X | X | X | 35 |
| HLA20578 | SAT Preparation | 2.5 |  |  | X | X | 35 |
| HLA20567 | Speech - A | 2.5 | X | X | X | X | 35 |
| HLA20576 | Theater Production | 2.5 | X | X | X | X | 35 |


| Course <br> Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| Mathematics |  |  |  |  |  |  |  |
| HMA50220 | AP Calculus AB | 5 |  |  | X | X | 37 |
| HMA50227 | AP Calculus BC | 5 |  |  | X | X | 37 |
| HMA50200 | AP Computer Science A | 5 |  | X | X | X | 37 |
| HMA50201 | AP Computer Science Principles | 5 |  | X | X | X | 38 |
| HMA50252 | AP Probability \& Statistics | 5 |  |  | X | X | 38 |
| HMA10206 | Algebra I-A | 5 | X |  |  |  | 38 |
| HMA61000 | Algebra I - A | 10 | X |  |  |  | 38 |
| HMA60219 | Algebra I SI - A | 5 | X | X | X | X | 38 |
| HMA10210 | Algebra II - A | 5 | X | X | X |  | 38 |
| HMA30211 | Algebra II - H | 5 | X | X |  |  | 39 |
| HMA10263 | Calculus - A | 5 |  |  | X | X | 39 |
| HMA10218 | Essentials of Algebra II - A | 5 |  |  | X |  | 39 |
| HMA10208 | Essentials of Geometry - A | 5 |  | X |  |  | 39 |
| HMA60220 | Essentials of Geometry SI - A |  | X | X | X | X | 39 |
| HMA10207 | Geometry - A | 5 | X | X |  |  | 40 |
| HMA30209 | Geometry - H | 5 | X | X |  |  | 40 |
| HMA10237 | Math Analysis - A | 5 |  |  | X | X | 40 |
| HMA10202 | Mathematics SI - A | 5 | X | X | X | X | 40 |
| HMA10229 | Precalculus - A | 5 |  | X | X | X | 40 |
| HMA30214 | Precalculus - H | 5 |  | X | X |  | 40 |
| HMA10265 | Probability and Statistics - A | 5 |  |  | X | X | 40 |
| (Electives) |  |  |  |  |  |  |  |
| HMA20556 | Advanced Mathematics: Calculus III | 2.5 |  |  |  | X | 41 |
| HMA20555 | Advanced Mathematics: Differential Equations | 2.5 |  |  |  | X | 41 |
| HMA50620 | Advanced Mathematics: Topics in Engineering | 5 |  |  |  | X | 41 |
| HMA50650 | Advanced Topics in Computer Science | 5 |  |  | X | X | 41 |
| HMA20200 | Introduction to Computer Science | 2.5 | X | X | X | X | 41 |
| HMA60200 | Mathematics I Workshop | 5 | X |  |  |  | 42 |
| HMA60201 | Mathematics II Workshop | 5 |  | X |  |  | 42 |
| HMA60203 | Mathematics III Workshop | 2.5 |  |  | X |  | 42 |
| HMA60204 | Mathematics IV Workshop | 2.5 |  |  |  | X | 42 |
| HLA20578 | SAT Preparation | 2.5 |  |  | X |  | 42 |
| Science |  |  |  |  |  |  |  |
| HSC50323 | AP Biology | 7 |  |  | X | X | 44 |
| HSC50324 | AP Chemistry | 7 |  |  | X | X | 44 |
| HSC50328 | AP Environmental Science | 6 |  |  | X | X | 44 |
| HSC50329 | AP Physics 1 | 6 |  |  | X | X | 44 |
| HSC50330 | AP Physics 2 | 6 |  |  | X | X | 44 |
| HSC50365 | AP Physics - C | 7 |  |  | X | X | 45 |
| HSC10303 | Biology - A | 6 | X |  |  |  | 45 |
| HSC30305 | Biology - H | 6 | X |  |  |  | 45 |
| HSC60304 | Biology - S | 5 | X |  |  |  | 45 |
| HSC10309 | Chemistry - A | 6 |  | X | X |  | 45 |
| HSC30310 | Chemistry - H | 6 |  | X | X |  | 45 |
| HSC60311 | Chemistry - S | 5 |  | X | X |  | 45 |
| HSC10312 | Conceptual Physics - A | 6 |  |  | X | X | 46 |
| HSC10313 | Physics - A | 6 |  |  | X | X | 46 |
| HSC30314 | Physics - H | 6 |  |  | X | X | 46 |
| HSC10380 | Earth \& Space Science - A | 5 |  |  | X | X | 46 |


| Course Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| Science (cont.)(Electives) |  |  |  |  |  |  |  |
| HSC20322 | Astronomy - A | 2.5 |  | X | X | X | 46 |
| HSC10346 | Environmental Science - A | 5 |  |  | X | X | 46 |
| HSC20359 | Exercise Physiology - A | 2.5 |  | X | X | X | 47 |
| HSC20374 | Forensic Science - A | 2.5 |  | X | X | X | 47 |
| HSC20362 | General Anatomy \& Physiology - A | 2.5 |  | X | X | X | 47 |
| HSC30814 | Genetics - H | 3 |  |  | X | X | 47 |
| HSC40363 | Human Anatomy \& Physiology | 5 |  | X | X | X | 47 |
| HSC30358 | Introduction to Engineering - H | 7 |  |  | X | X | 48 |
| HSC20368 | Marine Biology - A | 2.5 |  | X | X | X | 48 |
| HSC10317 | Medical Laboratory Technique | 5 |  |  | X | X | 48 |
| HSC20363 | Medical Physiology - A | 2.5 |  | X | X | X | 48 |
| HSC10335 | Microbiology - H | 5 |  | X | X | X | 48 |
| HSC20320 | Oceanography/Meteorology - A | 2.5 |  | X | X | X | 49 |
| HSC30361 | Organic \& Biochemistry - H | 6 |  |  | X | X | 49 |
| Social Studies |  |  |  |  |  |  |  |
| HSS50121 | AP U.S. History I | 5 |  | X | X |  | 50 |
| HSS50120 | AP U.S. History II | 5 |  |  | X | X | 50 |
| HSS60100 | Social Studies SI | 5 | X | X | X | X | 50 |
| $\begin{aligned} & \text { HSS10108 (A) } \\ & \text { HSS30107 (H) } \\ & \text { HSS60110 (S) } \end{aligned}$ | U.S. History I - A, H, S | 5 |  | X | X |  | 50 |
| $\begin{aligned} & \text { HSS10112 (A) } \\ & \text { HSS30111 (H) } \\ & \text { HSS60113 (S) } \end{aligned}$ | U.S. History II - A, H, S | 5 |  |  | X | X | 51 |
| $\begin{aligned} & \text { HSS10123 (A) } \\ & \text { HSS30122 (H) } \\ & \text { HSS60124 (S) } \end{aligned}$ | World Civilizations II - A, H, S | 5 | X |  |  |  | 51 |
| (Electives) |  |  |  |  |  |  |  |
| HSS50136 | AP European History | 5 |  |  | X | X | 51 |
| HSS50102 | AP Government \& Politics | 5 |  |  | X | X | 51 |
| HSS50139 | AP Psychology | 5 |  |  | X | X | 52 |
| HSS50151 | AP Research | 5 |  |  |  | X | 52 |
| HSS50150 | AP Seminar | 5 |  |  | X | X | 52 |
| HSS20555 | Advanced Social Studies: Abnormal Psychology | 2.5 |  |  |  | X | 52 |
| HSS20556 | Advanced Social Studies: Social Psychology | 2.5 |  |  |  | X | 53 |
| HSS20118 | American Law - A | 2.5 |  | X | X | X | 53 |
| HSS0155 | Civics | 2.5 | X | X | X | X | 53 |
| HFA20101 | Cultural Ceramics | 2.5 | X | X | X | X | 53 |
| HSS20115 | Economics Today | 2.5 | X | X | X | X | 53 |
| $\begin{aligned} & \text { HSS10131 (A) } \\ & \text { HSS30114 (H) } \end{aligned}$ | Global Studies - A, H | 5 |  |  |  | X | 53 |
| HSS20114 | Historical Exploration | 2.5 |  |  | X | X | 54 |
| HSS20116 | Human Development - A | 2.5 |  | X | X | X | 54 |
| HSS20145 | Pop Culture: $20^{\text {th }}$ Century | 2.5 |  | X | X | X | 54 |
| HSS20117 | Sociology - A | 2.5 |  | X | X | X | 54 |
| HSS20142 | Women's Studies: Evolving Image of Women - A | 2.5 | X | X | X | X | 54 |
| HSS20143 | Women's Studies: Social Change: Changing Gender Roles - A | 2.5 | X | X | X | X | 54 |


| Course <br> Numbers | Course | High <br> School Credit | Grade level course is offered |  |  |  | Page <br> Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| World Languages |  |  |  |  |  |  |  |
| HWL50485 | AP Chinese Language | 5 |  |  | X | X | 57 |
| HWL50432 | AP French Language | 5 |  |  | X | X | 57 |
| HWL50499 | AP German Language | 5 |  |  | X | X | 57 |
| HWL50406 | AP Italian Language | 5 |  |  | X | X | 57 |
| HWL50417 | AP Latin | 5 |  |  | X | X | 57 |
| HWL50431 | AP Spanish Language | 5 |  |  | X | X | 57 |
| HWL10439 (I-A) <br> HWL10443 (II-A) <br> HWL30478 (II-H) <br> HWL10463 (III-A) <br> HWL30448 (III-H) <br> HWL10449 (IV-A) <br> HWL30455 (IV-H) <br> HWL10492 (V-A) | Chinese I, II, III, IV, V - A <br> Chinese II, III, IV - H | 5 | X | X | X | X | 57-58 |
| HWL10411 (I-A) <br> HWL10412 (II-A) <br> HWL30470 (II-H) <br> HWL10414 (III-A) <br> HWL30471 (III-H) <br> HWL10416 (IV-A) <br> HWL30472 (IV-H) <br> HWL10494 (V-A) | French I, II, III, IV, V - A <br> French II, III, IV - H | 5 | X | X | X | X | 57-58 |
| HWL10419 (I-A) <br> HWL10420 (II-A) <br> HWL30473 (II-H) <br> HWL10422 (III-A) <br> HWL30474 (III-H) <br> HWL10424 (IV-A) <br> HWL30475(IV-H) <br> HWL10498(V-A) | German I, II, III, IV, V - A <br> German II, III, IV - H | 5 | X | X | X | X | 57-58 |
| HWL10408 (I-A) <br> HWL10409 (II-A) <br> HWL30418 (II-H) <br> HWL10410 (III-A) <br> HWL30442 (III-H) <br> HWL10438 (IV-A) <br> HWL30450 (IV-H) <br> HWL10415 (V-A) | Italian I, II, III, IV, V - A <br> Italian II, III, IV - H | 5 | X | X | X | X | 57-58 |
| HWL10427 (I-A) <br> HWL10428 (II-A) <br> HWL30446 (II-H) <br> HWL10429 (III-A) <br> HWL30477 (III-H) <br> HWL10430 (IV-A) <br> HWL30425 (IV-H) <br> HWL10421 (V-A) | Latin I, II, III, IV, V - A <br> Latin II, III - H, IV - H | 5 | X | X | X | X | 57-58 |


| Course Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| World Languages (cont.) |  |  |  |  |  |  |  |
| HWL10400 (I-A) <br> HWL10401 (II-A) <br> HWL30467 (II-H) <br> HWL10403 (III-A) <br> HWL30468 (III-H) <br> HWL10405 (IV-A) <br> HWL30469 (IV-H) <br> HWL10496 (V-A) | Spanish I, II, III, IV, V - A Spanish II, III, IV - H | 5 | X | X | X | X | 57-58 |
| HWL10451 | Spanish for Heritage Speakers Beginners -A | 5 | X | X | X | X | 58 |
| Physical Education and Health |  |  |  |  |  |  |  |
| HPE00094; HPE00095 HPE00104; HPE00105 <br> HPE00114; HPE00115 <br> HPE00124; HPE00125 <br> HPE70810 (Adaptive) | Physical Education \& Health I, II, III, IV | 4 or 5 each Year | X | X | X | X | 59 |
| HPE000808 | PE Partners |  |  |  | X | X | 59 |
| Performing Arts |  |  |  |  |  |  |  |
| HFA50811 | AP Music Theory | 5 |  |  | X | X | 60 |
| HFA40639 | Concert Band | 5 | X |  |  |  | 60 |
| HFA40604 | Mixed Choir | 5 | X | X | X | X | 61 |
| HFA40611 | Music Workshop | 5 | X | X | X | X | 61 |
| HFA40601 | Select Women's Choir | 5 |  | X | X | X | 61 |
| HFA40603 | String Orchestra | 5 | X | X | X | X | 61 |
| HFA40616 | Symphonic Band | 5 |  | X | X | X | 62 |
| HFA30601 | Symphonic Choir - H | 5 |  | X | X | X | 62 |
| HFA30600 | Symphony Orchestra - H | 5 |  | X | X | X | 62 |
| HFA30626 | Wind Ensemble - H | 5 |  | X | X | X | 62 |
| Business Education |  |  |  |  |  |  |  |
| HFB20697 | Academic Internship Program | 7.5 |  |  |  | X | 63 |
| HFB40522 | Academic Internship Program | 15 |  |  |  | X | 63 |
| HFB40507 | Accounting I | 5 | X | X | X | X | 63 |
| HFB40508 | Accounting II | 5 |  | X | X | X | 64 |
| HFB50525 | AP Macroeconomics | 5 |  |  | X | X | 64 |
| HFB50515 | AP Microeconomics | 5 |  |  | X | X | 64 |
| HFB20500 | Introduction to Business | 2.5 | X | X | X | X | 64 |
| HFB20514 | Business Law | 2.5 |  | X | X | X | 64 |
| HFB20520 | Career Exploration and Awareness | 2.5 | X | X | X | X | 64 |
| HFB20512 | College Preparatory Accounting | 2.5 |  | X | X | X | 65 |
| HFB20452 | Computer Applications | 2.5 | X | X | X | X | 65 |
| HFB20531 | Computer Repair \& Technical Support I | 2.5 | X | X | X | X | 65 |
| HFB20532 | Computer Repair \& Technical Support II | 2.5 | X | X | X | X | 65 |
| HFB20519 | Desktop Publishing | 2.5 | X | X | X | X | 65 |
| HFB20523 | Financial Planning | 2.5 |  |  | X | X | 65 |
| HFB20524 | International Business | 2.5 | X | X | X | X | 65 |
| HFB20486 | Introduction to Marketing | 2.5 | X | X | X | X | 66 |
| HFB20501 | Keyboarding | 2.5 | X | X | X | X | 66 |


| Course <br> Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| Business Education (cont.) |  |  |  |  |  |  |  |
| HFB20534 | Multimedia Tech. \& Bus. Presentations | 2.5 | X | X | X | X | 66 |
| HFB20502 | Notetaking \& Study Skills | 2.5 | X | X | X | X | 66 |
| HFB20466 | Photo Editing \& Web Design | 2.5 | X | X | X | X | 66 |
| HFB20555 | Photo Editing for Business | 2.5 | X | X | X | X | 66 |
| HFB20530 | Programming for Business | 2.5 | X | X | X | X | 66 |
| HFB20556 | Programming for Business II | 2.5 | X | X | X | X | 66 |
| HFB40521 | Related Instruction(scheduled with Academic Internship Program) |  |  |  |  | X | 63 |
| Family and Consumer Sciences |  |  |  |  |  |  |  |
| HFB20702 | Applied Culinary Arts I | 2.5 | X | X | X | X | 67 |
| HFB20708 | Applied Culinary Arts II | 2.5 |  | X | X | X | 67 |
| HFB20713 | The Art of Applied Nutrition | 2.5 | X | X | X | X | 68 |
| HFB20705 | Family \& Child I | 2.5 |  |  | X | X | 68 |
| HFB20761 | Family \& Child II | 2.5 |  |  | X | X | 68 |
| HFB20700 | Family \& Consumer Sciences | 2.5 | X | X | X | X | 68 |
| HFB20703 | Fashion Design I | 2.5 | X | X | X | X | 68 |
| HFB20704 | Fashion Design II | 2.5 | X | X | X | X | 68 |
| HFB20724 | Fashion Design III | 2.5 |  | X | X | X | 69 |
| HFB20701 | Introduction to Culinary Arts | 2.5 | X | X | X | X | 69 |
| HFB20706 | Space and Design | 2.5 |  |  | X | X | 69 |
| HFB40707 | Today's Living | 5 |  |  |  | X | 69 |
| Fine Arts |  |  |  |  |  |  |  |
| HFA50622 | AP Studio Art | 5 |  |  |  | X | 70 |
| HFA50488 | AP Art History | 5 |  | X | X | X | 71 |
| HFA40628 | Art History | 5 | X | X | X | X | 71 |
| HFA40624 | Art I | 5 | X | X | X | X | 71 |
| HFA40602 | Art II | 5 |  | X | X | X | 71 |
| HFA40487 | Art III | 5 |  |  | X | X | 71 |
| HFA30736 | Art III - H | 5 |  |  | X | X | 72 |
| HFA40737 | Art IV | 5 |  |  |  | X | 72 |
| HFA30555 | Art IV - H | 5 |  |  | X | X | 72 |
| HFA20603 | Ceramics I | 2.5 | X | X | X | X | 72 |
| HFA20489 | Ceramics II | 2.5 | X | X | X | X | 72 |
| HFA20746 | Ceramics III | 2.5 |  | X | X | X | 72 |
| HFA20767 | Ceramics IV | 2.5 |  | X | X | X | 73 |
| HFA20604 | Crafts I | 2.5 | X | X | X | X | 73 |
| HFA20611 | Crafts II | 2.5 | X | X | X | X | 73 |
| HFA20101 | Cultural Ceramics | 2.5 | X | X | X | X | 73 |
| HFA20605 | Design | 2.5 |  | X | X | X | 73 |
| HFA20487 | Digital Fine Arts I | 2.5 | X | X | X | X | 73 |
| HFA20606 | Painting \& Drawing | 2.5 |  | X | X | X | 73 |
| HFA20608 | Sculpture | 2.5 |  | X | X | X | 74 |


| Course Numbers | Course | High School Credit | Grade level course is offered |  |  |  | Page <br> Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 9 | 10 | 11 | 12 |  |
| Industrial Technology |  |  |  |  |  |  |  |
| HFB40533 | Computer Aided Design Technology I | 5 | X | X | X | X | 74 |
| HFB40535 | Computer Aided Design Technology II | 5 |  | X | X | X | 75 |
| HFB40726 | Electronics | 5 |  | X | X | X | 75 |
| HFB40720 | Engineering Computer Graphics I | 5 |  | X | X | X | 75 |
| HFB40721 | Engineering Computer Graphics II | 5 |  |  | X | X | 75 |
| HFB20717 | Fundamentals of Automated Design | 2.5 | X | X | X | X | 75 |
| HFB40785 | Home Improvement | 5 | X | X | X | X | 76 |
| HFB40725 | Introduction to Electronics | 5 | X | X | X | X | 76 |
| HFB20537 | Media Communications I | 2.5 | X | X | X | X | 76 |
| HFB20538 | Media Communications II | 2.5 | X | X | X | X | 76 |
| HFB20376 | Media Communications III | 2.5 |  | X | X | X | 76 |
| HFB20377 | Media Communications IV | 2.5 |  | X | X | X | 76 |
| HFB20509 | Video Production Seminar | 2.5 |  |  | X | X | 76 |
| HFB40709 | Wood Design \& Fabrication I | 5 | X | X | X | X | 77 |
| HFB40710 | Wood Design \& Fabrication II | 5 |  | X | X | X | 77 |
| HFB40711 | Wood Design \& Fabrication III | 5 |  |  | X | X | 77 |
| Other |  |  |  |  |  |  |  |
|  | Option II | Varies | X | X | X | X | 6 |
|  | Teacher's Aide | 5 or 10 |  |  |  | X | 77 |
|  | Vo-Tech A or C | 15 | X | X | X | X | NA |

## COURSE DESCRIPTIONS

NOTE: The first grade level listed under each course indicates the year in which the course is first offered. Additional grade levels show years of continuing student interest.

## English

Supervisor: Dr. Mark Jarmon - 908-231-8660 ext. 2265

## Overview

- All students must satisfactorily complete four years of English Language \& Literature. This requirement means that all students must take, complete all core requirements for, and pass at least one year of English Language \& Literature ( 5 credits) each year that they attend school.
- Students who are required to take Literacy Support in addition to English Language \& Literature courses are identified by district and state test scores.
- In addition to the four years of required English Language \& Literature, students may select additional courses from the list of electives. These courses may not replace any of the four years of required English Language \& Literature.
- The English Language \& Literature courses are characterized by a strong emphasis on the relationship of the language processes to thinking and learning. Through the structured integration of speaking, reading, listening, and viewing activities, students are able to master the basic skills and to develop a continuing interest in language and literature.
- Flexible Grouping. Instruction takes place through large group, small group, and independent learning. Flexible grouping and varied activities help to maintain interest in learning and to provide for individual differences.
- Speaking. In order to encourage maximum participation, the courses include a wide variety of informal and formal speaking activities such as oral reports and dramatization of stories. Speaking is also taught as a vital part of the composing process and is related closely to the development of listening skills.
- Writing. Writing is viewed as a continuing, rather than an occasional, activity which requires writing in varied, realistic, challenging ways. Writing is taught not only for its own value, but also as a means of thinking and learning. Central to the writing program is the composing process in which students learn to prepare, write, and edit what they have written for a given audience and for a particular purpose. Writing assignments range from the personal response to the formal research paper. Instruction in the support skills - grammar, usage, and mechanics - figures prominently in the editing phase of the composing process.
- Literature and Reading. The study of literature is diverse and challenging. The selection of contemporary and classic literature includes the study of the major genres: novel, drama, short story, biography, and poem. Students are provided with materials to meet their reading ability and personal interests. Literature is taught in response to grade-level essential questions either through thematic units or through American, British, or world selections. All of these encourage personal, literal, inferential, critical, and creative responses.
- Viewing. Since the non-print media - especially films and television - are major factors in shaping people's lives, students are taught to read visual images and messages intelligently and to share their responses with others in speech and writing.

The following flow charts illustrate possible sequencing of courses within the department. Students are encouraged to take the most challenging courses (differentiated by level of rigor) in which they will be most successful. Movement across options is possible. This is determined by student ability, motivation, and achievement. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.

## Option \#1 Most Rigorous



Option \#2 Highly Rigorous


## Option \#3 Rigorous



ESL


## Electives



## English Department Course Descriptions

## Advanced Placement Language and Composition III

$\qquad$ Credits: 5 Grade 11
This college-level course in effective writing and critical reading centers on fostering a student's awareness of writing as a thinking process. Intense concentration on language use and stylistic development will lead to insight regarding interpretative reading and writing skill. The fiction and nonfiction course readings will serve as tools for advancing the manipulation of language details and structure to create meaning primarily within the modes of exposition, analysis, and argumentation.
**Students completing Honors English II in good academic standing may elect Advanced Placement Language and Composition III.

## Advanced Placement Literature and Composition IV

 Credits: 5
## Grade 12

This college-level course enables students to focus on intensive, in depth, advanced study in English. Critical analysis of literature will lead to insights in structure and meaning. Authors and literary works from the 16th century to the present will be studied. In addition, major authors, periods, genres, and themes will be studied via a concentration on imaginative literature-poetry, fiction, and drama.
**Students completing Honors English III or Advanced Placement Language and Composition III in good academic standing may elect Advanced Placement English Literature and Composition IV.

## English Language and Literature I (Honors) Grade 9

English I Honors focuses on classic and contemporary literature to establish a framework for enabling students to use language as a tool for exploring the world actively, communicating effectively, and growing intellectually. As a student in the honors program, you will be asked to read and write in a more independent fashion than you would in other English courses. As a result of an accelerated instructional pace, core literature will be enriched with advanced-level assignments.

## English Language and Literature II (Honors) Grade 10

$\qquad$ Credits: 5

English II Honors adds to the framework of prior knowledge with a study of American literature to encourage student use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually. As a student in the honors program, you will be asked to read and write in a more independent fashion than you would in other English courses. As a result of an accelerated instructional pace, core literature will be enriched with advanced-level assignments.

## English Language and Literature III (Honors)........................................ Credits: 5 Grade 11

English III Honors applies the use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually through the study of British literature. As a student in the honors program, you will be asked to read and write in a more independent fashion than you would in other English courses. As a result of an accelerated instructional pace, core literature will be enriched with advanced-level assignments.

## English Language and Literature IV (Honors)

 Credits: 5 Grade 12English IV Honors serves as the culminating high school experience in which students can refine their use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually through the study of World literature. As a student in the honors program, you will be asked to read and write in a more independent fashion than you would in other English courses. As a result of an accelerated instructional pace, core literature will be enriched with advanced-level assignments.

## English Language and Literature I (A, $\mathbf{S}^{\text {* }}$ ) Grade 9 <br> Participation in the Standard (S) level course is an academic placement decision.

Language and Literature I focuses on classic and contemporary literature to establish a framework for enabling students to use language as a tool for exploring the world actively, communicating effectively, and growing intellectually. Through reading, writing, speaking, listening, viewing, and critical thinking, learning becomes a multidimensional and transactional process through which students continually expand their repertoire of knowledge.

## English Language and Literature II (A, S) Credits: 5 Grade 10

Participation in the Standard $(S)$ level course is an academic placement decision.
Language and Literature II adds to the framework of prior knowledge with a study of American literature to encourage student use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually. In conjunction with cognitive development, student independence regarding reading, writing, speaking, listening, viewing, and critical thinking increases.

## English Language and Literature III (A, S) Credits: 5 <br> Grade 11

Participation in the Standard (S) level course is an academic placement decision.
Language and Literature III applies the use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually through the study of British literature. Reading, writing, speaking, listening, viewing, and critical thinking are addressed creatively, critically, and strategically.

## English Language and Literature IV (A, S) <br> Credits: 5

## Grade 12

Participation in the Standard (S) level course is an academic placement decision.
Language and Literature IV serves as the culminating high school experience in which students can refine their use of language as a tool for exploring the world actively, communicating effectively, and growing intellectually through the study of World literature. Anticipating higher education and/or career employment, reading, writing, speaking, listening, viewing, and critical thinking are addressed with an understanding of both high academic and practical applications.

## English Language and Literature IV-CEP (A) Grade 12

Language and Literature IV-CEP (Concurrent Enrollment Program) will continue to follow the philosophy of teaching literature and writing, emphasizing response to literature and writing as a process. The important difference between this course and other English courses is that this course merges senior academic English with freshman college English. Therefore, if all requirements are met by the student, including passing the college level Basic Skills test, credit is earned for both Language and Literature IV and college English I from Raritan Valley Community College. Students pay tuition, purchase some materials, and receive 5 high school credits as well as 3 college credits, which may be transferred to other college or university programs.

## English as a Second Language/Bilingual

Students who are non-native speakers of English are to be given the "WIDA MODEL" test when they enter our school to see if they are limited English proficient (LEP). This state-mandated test has nine sections and is administered individually by the ESL teacher. Students enrolled in the ESL Program are placed in one of the four levels of ESL based on results of placement tests and/or teacher recommendations.

## ESL I - Grammar \& Conversation Credits: 10 <br> Grades 9, 10, 11, 12

This course, for the beginning ESL student, offers a high level of support via a double period. This course focuses on needs specific to English Language Learners. Students will develop reading, vocabulary, and oral and written language.

## ESL II - Grammar \& Conversation

Credits: 10

## Grades 9, 10, 11, 12

Students at this level of English Language Proficiency receive a high level of support in their English Language Development by meeting for two periods daily. Students will continue their development of reading, vocabulary and oral and written language.

ESL III - Reading \& Writing
Credits: 5
Grades 9, 10, 11, 12
This course is offered to students who are at a low intermediate level of English proficiency and is taken concurrently with a standard or academic English Language and Literature course for their grade level.

## English Language and Literature SI

$\qquad$ Credits: 5

## Grades 9, 10, 11, 12

Language and Literature SI is a multi-grade/multi-ability-level course where beginning and intermediate English Language Learners will meet both content and language objectives in a differentiated, sheltered-instruction learning environment. With access to texts from the various language and literature courses, this course will provide a survey of literary study and endeavor to bridge student progress for placement the next year into the grade-level appropriate English Academic or Transition course.

## English Language \& Literature T I

Credits: 5

## Grades 9, 10, 11, 12

Language \& Literature T I seeks to prepare ESL III students for placement in a grade-level appropriate academic Language \& Literature course as they reach the final stage of the ESL program. The course will provide students with materials, resources, and strategies to function as a contributing resource within the traditional English classroom setting. Students will explore the fundamentals of literature study, practice the process of formal essay writing, and develop the confidence to become active members of thoughtful classroom discussion.

English Language \& Literature T II ........................................................ Credits: 5 Grades 9, 10, 11, 12

Language and Literature T II is a continuation of Language and Literature T I. Once students have completed Language and Literature T I, they will build on skills and literature base to complete Language and Literature T II. This course will expand their knowledge of literature, literary terms, and the writing process, therefore preparing them for a grade-level academic English course.

## English Department Electives

## American Film Study

Credits: 2.5
Grades 11, 12
This course seeks to complement and expand upon the core film units addressed in Language \& Literature courses. Through an academic consideration of the relationship between film and American culture, students will develop the critical thinking skills needed to meet the demands of contemporary society. Additionally, by studying literary/cinematic devices and paralleling the formal analysis done with print texts, the course will help to ensure greater success in the language arts classroom.

## Comprehensive Creative Writing Grades 11, 12 <br> Prerequisite - Introduction to Creative Writing

If you want to publish and share your stories with the world, this is the course for you. This course provides serious writers of fiction and creative non-fiction with a structured writing workshop community and the preparation necessary to excel at the collegiate level and beyond. Students will refine and revise their work until it is ready to send to magazines, and will learn the needs and styles of contemporary markets. Students will read and study exemplary short fiction and non-fiction across many genres, including the work of graduates of this course who have begun publishing in some of the country's finest literary magazines. Students will consider their personal identities as artists and their role in a larger aesthetic community. Most importantly, students will gain confidence and will go from being student-writers to active, working writers.

## Drama

## Credits: 2.5

## Grades 9, 10, 11, 12

Through a variety of exercises, dramatics encourages you to act, improvise, write, read, and listen. Drawing from inner resources will prepare you for activities in movement, oral interpretation, characterization, playing the part, and dramatic criticism. Activities include reading plays, writing responses and original scenes, and improvising the familiar from sense recall and the unfamiliar from imagination. You will dramatize scenes, (published and/or student generated) monologues, and improvisations. In addition, you will participate in audience critiques of your classmates' performances.

## Forensics

## Credits: 2.5

Grades 9, 10, 11, 12
Prerequisite - Speech
An activity approach to the various areas of forensic speaking and writing, this course will touch on the following areas: extemporaneous speaking, original oratory, dramatic interpretation, humorous interpretation, poetry reading, prose reading, duo interpretation, declamation and impromptu speaking. Each area will be presented and critiqued by students. Diction, speech, and voice modulation will be developed. Students will write formally and informally. Discussion and debate will also be studied. There will be instruction in Lincoln-Douglas and Policy Debate, and a mock debate will be performed. The major focus will be noncompetitive, but students will also be encouraged to raise their performances to competition levels.

## Introduction to Creative Writing Credits: 2.5

## Grades 9, 10, 11, 12

Introduction to Creative Writing teaches you the process involved in writing fiction, drama, and poetry. As you are introduced to each new form of writing, you will read literature which illustrates the type of writing you are doing. Beginning with short assignments to sharpen your use of sensory perception and imagery, you will eventually progress to writing character sketches, short stories, one-act plays, and poetry. You will be encouraged to share your creative work with others.

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Introduction to Screenwriting Credits: 2.5
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## Grades 11, 12

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Prerequisite - American Film Study
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This course will enable students to write within the accepted framework for professional film scripts with the goal of producing an act-long script excerpt. Course content will build upon the basic knowledge set attained during the prerequisite course, American Film Study, and transition into practical written applications. Students will learn to analyze film with an increasingly critical eye, synthesizing previously-learned skills with a more advanced understanding of the art and science of screenwriting. They will then be equipped to apply these technical and creative processes to their own work. The format of the course will include close "readings" of a film and several film clips concurrently with their scripts; instruction of and practice with script jargon, format and structure; experience writing and work-shopping a story pitch; writing a 400 -word treatment; visually diagramming existing scripts as well as original story ideas; and drafting a complete first act of an original screenplay.

## Journalism <br> $\qquad$ Credits: 2.5

## Grades 9, 10, 11, 12

In this course you will be introduced to newspaper journalism. You will learn the particular skills needed in journalistic writing, such as fact gathering, note taking, objective reporting, interviewing, editing, and proofreading. You will read a wide variety of newspapers as well as literature on how ideas are communicated so that you can become a wiser consumer in the media marketplace. You will have the opportunity to publish your writing in school periodicals.

## Kid Lit Literacy

## Credits: 2.5

## Grades 9, 10, 11, 12

This course explores the history of children's literature, focusing on societal, cultural, and technological influences. Additionally, the course demonstrates how specific children's literature can be used as a learning tool across all academic subjects on the high school level. The culmination of the course will be an original production of a picture book.

## Literacy Support (11 or 12) Grades 11, 12

This offering is required for all students who do not meet state graduation standards in reading and/or writing as well as students who are identified through the English department's student performance-monitoring system. This course involves the creation of an individual-student-learning diagnosis, the differentiation of instruction based on the compilation of a unique master student prescription, and the administration of instructional strategies that drive learning. An awareness of each student's learning profile based upon the systems affecting output guides literacy instruction in guided practice, independent practice, and applied practice formations.

## LP: Lyrical Poetry

## Credits: 2.5

## Grades 9, 10, 11, 12

From Beethoven to the Beastie Boys to the Grateful Dead and to the Dave Matthews Band, LP: Lyrical Poetry provides students with a solid foundation in the study of formal analysis of literature, music, and critical terminology. Each area of this class will strive to create an understanding and appreciation of the historical, aesthetic, and cultural aspects of lyrical poetry. Furthermore, this course will allow students to strengthen and build upon their poetic/lyrical writing styles, both formal and creative. Ultimately, students will gain a greater appreciation of writing poetry and lyrics through their own unique, individual experiences.

## Publication Development and Production

 Credits: 5
## Grades 9, 10, 11, 12

Publication Development and Production provides students with a solid foundation of instruction in the purpose and methods of accomplishing each of the tasks that are part of the publication process. By learning the purpose and function of publication, structural team organization, theme development, coverage reporting, copy/caption writing, computer and manual layout design, topographic and graphic design, proofreading/editing/revision, and photographic composition, students are exposed to the intricacies associated with designing various publications while also learning valuable technological skills that will have practical application to other coursework and to the "real world."

## Reading Animation

## Credits: 2.5

Grades 9, 10, 11, 12
This course provides students with a background and understanding of the art of animation and its effective use in communicating on multiple levels. Students will acquire skills to analyze literature creatively and instructively in a contemporary technological medium that is nearly universal in language. Students will develop awareness of the methods that animation artists and authors employ to communicate broadly, effectively, and with focused intent.

## SAT Preparation

Credits: 2.5
Grades 11, 12
Prerequisite - Algebra II or Essentials of Algebra II or currently taking
This elective course targets math and verbal SAT preparation for those students who are planning to take the SAT. It is designed to increase student awareness of important test-taking strategies and, more importantly, to enhance higher order problem solving and thinking skills. One marking period will be devoted to verbal skills and one to math skills.

## Speech

$\qquad$ Credits: 2.5
Grades 9, 10, 11, 12
An activity approach to public speaking, this course provides you with practical lessons on how to communicate clearly and dynamically to various audiences. You will learn how to prepare and deliver formal and informal talks. Practice in voice, diction, and listening will be emphasized throughout the course. Tapes of famous personalities may be used to illustrate technique. Finally, by writing speeches and dialogues, you will learn about the similarities and differences in spoken and written English.

## Theater Production

Credits: 2.5
Grades 9, 10, 11, 12
Theater Production, a companion course to Dramatics, explores the backstage support activities that help the play and the actors come alive. Through reading text and plays, researching, drawing and painting, and working on projects, you will learn the basics of backstage management, play selection and rehearsal, set design, lighting design, sound, props, makeup, and costuming. A final large project, perhaps with a Dramatics class, will allow you to concentrate on an area of special interest to you.


## Mathematics

Supervisor: Mr. Jason Mauriello - 908-231-8660 ext. 2266
The mathematics curriculum is designed to meet the individual differences in ability, interest, and future educational/life goals. Though it follows a traditional sequence of courses the curriculum has two basic goals: (1) to ensure students mastery of basic mathematical skills (computation, problem solving, applications, and computer literacy) and (2) to develop the mathematics competencies required for advanced training or education.

The following flow charts illustrate possible sequencing of courses within the department. Students are encouraged to take the most challenging courses (differentiated by level of rigor) in which they will be most successful. Movement across options is possible. This is determined by student ability, motivation, and achievement. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.

## Option \#1 Most Rigorous



Option \#2 Highly Rigorous


Option \#3 Very Rigorous


## Option \#4 Rigorous



## Option \#5 Less Rigorous



## Computer Science



## Mathematics Department Course Descriptions

Advanced Placement Calculus (AB or BC) Credits: 5

## Grades 11, 12

Prerequisite -Algebra I, Geometry, Algebra II, Precalculus, and also must meet department selection criteria (AB or BC) Advanced Placement Calculus is offered to students who wish to prepare for the CollegeBoard Advanced Placement Examination to seek college credit and/or advanced standing in mathematics. Students will be encouraged to take the examination (either AB or BC ) in May. The content of this course will include introductory but comprehensive material on differential and integral calculus. Additionally, this full-year course dealing with the calculus of functions of a single variable will include topics such as infinite series, vectors, and differential equations.

## Advanced Placement Computer Science A

$\qquad$ Credits: 5

## Grades 10, 11, 12

Prerequisites - Algebra II (Final grade must be a "B-" or better in Honors or "A-" or better in Academic) and Introduction to Computer Science (Final grade must be a "A-" or better as per rules for entering an Honors Level class) or AP Computer Science Principles (Final grade of "B-" or better)
Advanced Placement Computer Science A is an introductory programming course that teaches programming structures and language syntax. The course features a specific programming language, Java. Students will be encouraged to take the CollegeBoard Advanced Placement Examination to seek college credit and/or advanced standing in mathematics. This course utilizes the fundamental, as well as more complex abstract, mathematical concepts. The course challenges students to create programs, as well as utilize common algorithms, to be reusable and adaptable through Object Oriented programming design. For more information on object oriented programming, explore www.greenfoot.org and www.code.org.

## Advanced Placement Computer Science Principles <br> <br> Grades 10, 11, 12

 <br> <br> Grades 10, 11, 12}$\qquad$ Credits: 5

Prerequisites - Intro to Computer Science (Final grade of " $B$ " or better and eligible for Honors math), or Algebra II Honors (Final grade of "B-" or better), or Precalculus Academic (Final grade of " $B$ " or better), or Calculus Academic (Final grade of "B" or better) or successful completion of AP Computer Science A
The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

## Advanced Placement Probabilities and Statistics.

$\qquad$ Credits: 5

## Grades 11, 12

Prerequisite - Precalculus and must also meet department selection criteria
Advanced Placement Probability and Statistics is offered to students who wish to prepare for the CollegeBoard Advanced Placement Examination to seek college credit and/or advanced standing in mathematics. Students will be encouraged to take the examination in May. The content of this course will include introductory but comprehensive material on topics such as exploring data, observational studies, experiments, surveys, probability, and statistical inference. Problems from a variety of disciplines will provide connections between statistics and real life applications. Emphasis will be placed on communication and the ability to think critically.

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Algebra I (A)
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``` Credits: 5
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## Grade 9

This course will develop the necessary skills in algebra in order to: connect algebra to geometry, connect algebra to probability and statistics, connect ideas between mathematics and other disciplines, learn how to study mathematics, develop the ability to explore, conjecture, and reason logically, solve non-routine problems, and communicate about and through mathematics. Topics include: use of variables, addition, subtraction, multiplication and division in algebra, slopes and lines, exponents and powers, quadratic equations and square roots, polynomials, linear systems, and factoring.

## Algebra I (A)

 Credits: 10
## Grade 9

This course will develop the necessary skills in algebra in order to: connect algebra to geometry, connect algebra to probability and statistics, connect ideas between mathematics and other disciplines, learn how to study mathematics, develop the ability to explore, conjecture, and reason logically, solve non-routine problems, and communicate about and through mathematics. Topics include: use of variables, addition, subtraction, multiplication and division in algebra, slopes and lines, exponents and powers, quadratic equations and square roots, polynomials, linear systems, and factoring. This course includes an additional period of small-group instruction to support students in their learning of algebraic topics.

## Algebra I SI (A) <br> Credits: 5 <br> Grade 9

This course for beginning, intermediate, and advanced English Language Learners (ESL I, II, III) will meet both math content objectives and language objectives in a differentiated, sheltered-instruction learning environment. This course will develop the necessary skills in algebra in order to: connect algebra to geometry, connect algebra to probability and statistics, connect ideas between mathematics and other disciplines, learn how to study mathematics, develop the ability to explore, conjecture, and reason logically, solve non-routine problems, and communicate about and through mathematics. Topics include: use of variables, addition, subtraction, multiplication and division in algebra, slopes and lines, exponents and powers, quadratic equations and square roots, polynomials, linear systems, and factoring.

Algebra II (A)
Credits: 5
Grades 9, 10, 11
Prerequisite - Geometry or Essentials of Geometry
This course will emphasize problem solving, communication, reasoning, and connections. The following topics will be explored: analyzing equations and inequalities, graphing linear relations and functions, solving systems of linear equations and inequalities, using matrices, polynomials and radical expressions, quadratic functions and inequalities, polynomial functions, rational expressions, and exponential and logarithmic functions.
Algebra II (Honors) Credits: 5

## Grades 9, 10

Prerequisite - Geometry or Geometry Honors and must also meet department selection criteria.
See previous for course description.
Calculus (A)

## Credits: 5

Grades 11, 12
Prerequisite - Algebra I, Geometry, Algebra II, and Precalculus
This course includes the material normally taught in the first two semesters of a college calculus program. It deals with the fundamentals of differential and integral calculus. After a review of analytic geometry, limit theory is developed. The properties of limits are used to find the derivatives of algebraic and transcendental functions. Applications of derivatives are then discussed. The concept of integration is introduced, and the Fundamental Theorem of Integral Calculus is used as a basis for the application of the definite integral. Greater versatility in integration is provided with a study of the methods of integration.

## Essentials of Algebra II (A)

 Credits: 5
## Grade 11

Prerequisite- Geometry or Essentials of Geometry
Participation in an Essentials level course is an academic placement decision.
This course is primarily for students who have been through the Essentials of Geometry program. The course will emphasize problem solving, communication, reasoning, and connections. The following topics will be explored: analyzing equations and inequalities, graphing linear relations and functions, solving systems of linear equations and inequalities, polynomial expressions and radical expressions, quadratic functions and inequalities, polynomial functions, rational functions, and exponential and logarithmic functions.

## Essentials of Geometry (A)

## Credits: 5

## Grade 10

Prerequisite - Algebra I or Essentials of Algebra I
Participation in an Essentials level course is an academic placement decision.
This course is mainly for students who have been through the Essentials of Algebra I program. This course will develop skills in visualization and pictorial representation, emphasize applications of geometric ideas to questions about natural, physical, and social phenomena, encourage computer-based explorations, include both coordinate and transformational geometry, and present deductive arguments in a variety of forms. This course includes the principles of plan and solid geometry (e.g. meaning of induction, deduction, methods of deductive reasoning, angle relationships, parallel and perpendicular lines, congruent triangles, arcs and angles as related to the circle, area of polygons, area and volumes of solids.) Along with Algebra I (Essentials of Algebra I) and Algebra II (Essentials of Algebra II), this course constitutes the basic mathematics requirements for admission to some institutions of higher learning. However, it is designed to be a value to you since its techniques are applicable to all fields of thought and since it develops the ability to problem solve using higher level thinking skills.

## Essentials of Geometry SI (A)

## Grades 9, 10

Prerequisite - Algebra I or Essentials of Algebra I
This course for beginning, intermediate, and advanced English Language Learners (ESL I, II, III) will meet both math content objectives and language objectives in a differentiated, sheltered-instruction learning environment. This course will develop skills in visualization and pictorial representation, emphasize applications of geometric ideas to questions about natural, physical, and social phenomena, encourage computer-based explorations, include both coordinate and transformational geometry, and present deductive arguments in a variety of forms. This course includes the principles of plane and solid geometry (e.g. meaning of induction, deduction, methods of deductive reasoning, angle relationships, parallel and perpendicular lines and planes, congruent triangles, arcs and angles as related to the circle, area of polygons, area and volume of solids.) Along with Algebra I and Algebra II, this course constitutes the basic mathematics requirements for admission to some institutions of higher learning. However, it is designed to be a value to you since its techniques are applicable to all fields of thought and since it develops the ability to problem solve using higher level thinking skills.

## Geometry (A)

 Credits: 5
## Grades 9, 10

Prerequisite - Algebra I or Essentials of Algebra
This course will develop skills in visualization and pictorial representation, emphasize applications of geometric ideas to questions about natural, physical, and social phenomena, encourage computer-based explorations, include both coordinate and transformational geometry, and present deductive arguments in a variety of forms. This course includes the principles of plane and solid geometry (e.g. meaning of induction, deduction, methods of deductive reasoning, angle relationships, parallel and perpendicular lines and planes, congruent triangles, arcs and angles as related to the circle, area of polygons, area and volume of solids.) Along with Algebra I and Algebra II, this course constitutes the basic mathematics requirements for admission to some institutions of higher learning. However, it is designed to be a value to you since its techniques are applicable to all fields of thought and since it develops the ability to problem solve using higher level thinking skills.
Geometry (Honors).................................................................................... Credits: 5
Grades 9, 10
Prerequisite - Algebra I and must also meet department selection criteria.
See previous for course description.
$\qquad$
Grades 11, 12
Prerequisite - Algebra I or Essentials of Algebra I, Geometry or Essentials of Geometry, Algebra II or Essentials of Algebra II Math Analysis is targeted for motivated students who find three years of mathematics to be challenging. These are capable students who are not ready for the rigors of a Precalculus course but are interested in further mathematics study. This full-year course will integrate ideas of functions and trigonometry usually studied at this level with the statistics and data analysis necessary to function successfully in the world of today and tomorrow.

## Mathematics SI

$\qquad$ Credits: 5

## Grades 9, 10, 11, 12

This multi-grade/multi-ability-level course for beginning, intermediate, and advanced English Language Learners (ESL I, II, III) will meet both math content objectives and language objectives in a differentiated, sheltered instruction learning environment. This course will provide an assessment of each student's specific knowledge and capability in the study of mathematics, offer reinforcement of pre-algebra topics, and provide a preview of the most important algebra topics to prepare students to be successful at the next level in Algebra 1. The sheltered-instruction learning environment will also increase the rate and level at which each student acquires the English language.

## Precalculus (A).

Credits: 5
Grades 10, 11, 12
Prerequisite - Algebra I, Geometry, Algebra II (Must attain a "C+" or better in Algebra II.)
This full year course lays the groundwork for the study of calculus by providing essential concepts and skills of algebra, trigonometry, and the study of functions. Numerous real-world applications will be discussed.

Precalculus (Honors)
Credits: 5

## Grades 10, 11

Prerequisite - Algebra II or Algebra II Honors and must meet department selection criteria.
See previous for course description.
Probability and Statistics (A) Credits: 5

## Grades 11, 12

Prerequisite - Essentials of Algebra II or Algebra II
This course will consist of a broad coverage of topics in applied statistics and probability, which will give students the ability to make more informed decisions based on analysis of quantitative data. Understanding probability and statistics is essential in today's high tech world, where print and electronic media are full of numerical information and interpretation. Statistics is the mathematics we use to collect, organize, and interpret numerical data, from test scores to election results to shopper's product preferences. Probability is the study of uncertainty and assessing the likelihood of real world events occurring, whether it is games of chance, genetics, or weather prediction to anticipate and prepare for a major storm.

## Mathematics Department Electives

## Advanced Mathematics: Calculus III*

 Credits: 2.5
## Grade 12

Prerequisite - AP Calculus Level BC and " 3 " or better on the Level BC Advanced Placement Test
This course is typically a third semester calculus course at the college level. Calculus III is a multivariate calculus that primarily deals with vectors, rates of change in three dimensions, and multiple integration.
*This course will be given AP weight in the calculation of the student's GPA.

## Advanced Mathematics: Differential Equations * <br> $\qquad$ Credits: 2.5

 Grade 12Prerequisite - AP Calculus Level BC and " 3 " or better on the Level BC Advanced Placement Test This course is typically the fourth semester calculus course at the college level. The course begins with solving first order differential equations. Material expands from AP Calculus BC with basic solutions and progresses throughout the entire course towards solving more complex single differential equations as well as systems of differential equations. Differential equations are used to solve problems that model applied sciences such as engineering and physics.
*This course will be given AP weight in the calculation of the student's GPA.
Advanced Mathematics: Topics in Engineering* ..................................... Credits: 5

## Grade 12

Prerequisite - AP Calculus BC, or AP Calculus AB with concurrent enrollment in AP Calculus BC
This course will introduce students to the advanced mathematics and "big ideas" of the standard undergraduate engineering curriculum. Topics include series expansions, complex numbers, linear algebra and vector spaces, Fourier analysis, and other advanced calculus methods. The course will include an experiential (lab or coding) component in which students apply their mathematical knowledge to a practical engineering problem. Topics of Engineering is designed to prepare future engineering and science majors for success in their first- and second-year college coursework. *This course will be given AP weight in the calculation of the student's GPA.

## Advanced Topics in Computer Science

$\qquad$ Credits: 5

## Grades 11, 12

Prerequisite- AP Computer Science A
Advanced Topics in Computer Science is a course that follows AP Computer Science A to investigate the essential properties of data structures and algorithms for operating on them, to use these structures as tools to assist algorithm design, and to extend exposure to searching, sorting and hashing techniques. Topics covered during the year include linked lists, stacks, queues, binary trees, sequential search, binary search, binary search trees, balanced binary search trees, hash tables, heaps for priority queues, graphs and graph algorithms, and asymptotic analysis of time and space requirements. An object-oriented language such as Java will be used to implement algorithms and further develop general programming skills. Students will have the option to pay tuition and receive 4 college credits through Rutgers University for their CS 112 Data Structures course if all requirements are met.
*This course will be given AP weight in the calculation of the student's GPA.
Introduction to Computer Science $\qquad$ Credits: 2.5

## Grades 9, 10, 11, 12

Prerequisite - Geometry
This elective course will introduce students to Object Oriented computer programming and Java language syntax. Through use of graphics based programming, students will develop Object Oriented programming design skills in creating Classes, Methods, and Functions. Students will create and utilize variables, decision making, and loops in their programming. For more information on object oriented programming explore www.greenfoot.org and www.code.org. There you will find user created scenarios built with Java programming which will be explored in this course.

Mathematics I Workshop Credits: 2.5/5

## Grade 9

The decision for placement in this mathematics workshop is made at the Mathematics Department level and is based on standardized test scores and other entrance criteria. This course remediates identified skill gaps while emphasizing foundational content for Algebra I

Note: This course does NOT fulfill the mathematics graduation requirement. Therefore, students assigned to this workshop must also take another mathematics course.

## Mathematics II Workshop

Credits: 2.5/5

## Grade 10

The decision for placement in this mathematics workshop is made at the Mathematics Department level and is based on standardized test scores and other entrance criteria. This course remediates identified skill gaps while emphasizing foundational content for Geometry.
Note: This course does NOT fulfill the mathematics graduation requirement. Therefore, students assigned to this workshop must also take another mathematics course.

Mathematics III Workshop Credits: 2.5/5
Grade 11
The decision for placement in this mathematics workshop is made at the Mathematics Department level and is based on standardized test scores and other entrance criteria. This course remediates identified skill gaps while emphasizing foundational content for Algebra II.
Note: This course does NOT fulfill the mathematics graduation requirement. Therefore, students assigned to this workshop must also take another mathematics course.

## Mathematics IV Workshop Credits: 2.5/5

Grade 12
This workshop is designed for students who have not demonstrated proficiency in mathematics through required state testing. This course involves the creation and implementation of an individual student plan to achieve graduation testing requirements for mathematics.

Note: This course does NOT fulfill the mathematics graduation requirement. Therefore, students assigned to this workshop must also take another mathematics course.

SAT Preparation
Credits: 2.5
Grades 11, 12
Prerequisite - Algebra II or Essentials of Algebra II or currently taking
This elective course targets math and verbal SAT preparation for those students who are planning to take the SAT. It is designed to increase student awareness of important test-taking strategies and, more importantly, to enhance higher order problem solving and thinking skills. One marking period will be devoted to verbal skills and one to math skills.


## Science <br> Supervisor: Mr. Michael Herbst - 908-231-8660 ext. 2267

It is recommended that students anticipating a college major in the sciences select an advanced science course in their preferred field. If you wish to design a special science sequence that will enable you to take advanced physics in your senior year, you should consult with your school counselor or the science chairperson in your sophomore year.

## Advanced Placement Science - Overview

Prerequisite - For all advanced placement science courses:
> Appropriate Basic Course
> 2 years of Science (preference given to Honors)

- AP Biology students must have successfully completed Biology and completion of or concurrently enrolled in Chemistry
- AP Chemistry students must have successfully completed Chemistry
- AP Environmental science student must have completed one year of Biology and one year of Chemistry
- AP Physics 1 students must have successfully completed or be enrolled in Honors Precalculus and Chemistry
- AP Physics 2 students must have successfully completed Honors Physics, AP Physics 1, or AP Physics C
- AP Physics C students must have successfully completed Calculus

The following flow charts illustrate possible sequencing of courses within the department. Students are encouraged to take the most challenging courses (differentiated by level of rigor) in which they will be most successful. Movement across options is possible. This is determined by student ability, motivation, and achievement. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.

## Option \#1 Most Rigorous



Option \#2 Very Rigorous


Option \#3 Rigorous


Option \#4 Less Rigorous


## Science Department Course Descriptions


#### Abstract

Advanced Placement Biology Credits: 7

\section*{Grades 11, 12}

Prerequisite - Successful completion of Biology, completion of or concurrently enrolled in Chemistry The Advanced Placement Biology course is designed to be the equivalent of the general biology course usually taken during the first year of college and prepares the students for the CollegeBoard Advanced Placement Examination. The advanced placement program provides an opportunity for secondary school students to pursue and achieve credit for college-level course work at the secondary school level. The students are highly recommended to take the Advanced Placement Biology exam in the spring. Summer assignment required.


## Advanced Placement Chemistry

$\qquad$ Credits: 7

## Grades 11, 12

The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The advanced placement program provides an opportunity for secondary school students to pursue and achieve credit for college-level course work at the secondary school level. The students are highly recommended to take the Advanced Placement Chemistry exam in the spring. Students should have completed two years of academic mathematics. Successful completion of Honors Chemistry is also highly recommended. Summer assignment required.

## Advanced Placement Environmental Science <br> $\qquad$ Credits: 6

 Grades 11, 12Prerequisites - Completion of Biology and Chemistry and successful completion of at least one year of Algebra.
The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The course focus is on the "real science" behind environmental problems and issues. Laboratory and field study are an important element of the course. Summer assignment required.

## Advanced Placement Physics 1 <br> $\qquad$ Credits: 6

## Grades 11, 12

Prerequisite - successful completion of Chemistry (B or better) or Academic Physics (B or better), and Pre-Calculus (B or better). Alternatively, students who have not completed Pre-Calculus should, at a minimum, be concurrently enrolled in Honors Pre-Calculus with a grade of A- or better in their most recent math course. Trigonometric functions will be utilized; students should have a working knowledge of trigonometry.
AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course requires students to develop a deep understanding of the following topics: Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound; electric charge, electric force, and basic (resistor) electric circuits. Summer assignment required.

Advanced Placement Physics 2.

## Grades 11, 12

Prerequisite - successful completion of Honors Physics (B+ or better), AP Physics 1 or AP Physics C
AP Physics 2 is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Incoming students should have a solid understanding of AP Physics 1 topics. Summer assignment required.

## Advanced Placement Physics C

 Credits 7
## Grade 12

Prerequisite - Calculus (a first year Physics course is recommended but not required)
The Advanced Placement Physics C level course is a rigorous in depth course that covers only "Newtonian Mechanics" and "Electricity and Magnetism." Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. The Physics C course is the first part of a sequence which in college is sometimes a very intensive oneyear course but often extends over one and one-half to two years with a laboratory component. Summer assignment required.

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Biology (A)
Credits: 6
Grade 9
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Biology is that field of science that relates primarily to life processes and living things. It seeks to discover and describe all the phenomena associated with living things and with the state of being alive. It develops for us a realization of the unifying principles of plant and animal development and behavior, the awareness of order underlying the growth and structure of plants and animals, and the discovery of the sensitive balances regulating the lives of all organisms, including man.

## Biology (Honors) Credits: 6 <br> Grade 9

This course is a comprehensive, investigation oriented introduction to biology and is intended to prepare students to better understand the development of life processes and living forms through time. Major emphasis is placed upon biological themes and key concepts within the framework of scientific inquiry. Laboratory work is an integral part of the course, thus encouraging direct participation and insight into scientific methodology. This course is designed for the accelerated student.

## Biology (S) Grade 9 <br> Participation in this Standard (S) level course is an academic placement decision.

This five credit biology course explores a field of science that relates primarily to life processes and living things. It seeks to discover and describe all the phenomena associated with living things and with the state of being alive. It develops for us a realization of the unifying principles of plant and animal development and behavior, the awareness of order underlying the growth and structure of plants and animals, and the discovery of the sensitive balances regulating the lives of all organisms, including man.

## Chemistry (A)

Credits: 6

## Grade 10

Prerequisite - Algebra I and successful completion of Biology
This course will establish the basic fundamentals of the study of chemistry so that further study in this and related fields may be pursued more readily. It meets for six periods per week permitting the performance of carefully controlled experimentation on a laboratory basis. Strong mathematical skills are highly correlated with success in chemistry.

## Chemistry (Honors) <br> $\qquad$ Credits: 6 Grade 10

Prerequisite - Algebra II or concurrent enrollment in Algebra II and successful completion of Biology
This course will establish an in-depth study of chemistry so that further study in challenging science courses can be pursued more readily. It meets for six periods per week permitting the performance of carefully controlled experimentation on a laboratory basis. This is a challenging course that requires excellent Math and study skills.

Chemistry (S) Credits: 5
Grade 10
Prerequisite - Successful completion of Biology
Participation in this Standard (S) level course is an academic placement decision.
Chemistry is a laboratory science course designed for students in the tenth grade who seek a conceptual understanding of chemistry while utilizing essential laboratory skills. This course is designed for the student who wishes to learn the broad concepts and basic laboratory techniques used in chemistry. Applications to daily life will be emphasized. Topics include properties of matter, atomic theory, periodic trends, bonding and types of reactions. The appropriate NJ State and National Standards will be addressed so as to raise the level of student discourse and develop essential scientific reasoning skills.

## Conceptual Physics (A)

 Credits: 6
## Grades 11, 12

Prerequisite - C or higher in Academic Chemistry, English Lang \& Lit II, Geometry, and Algebra I (or B or higher in Essentials of Algebra I and Essentials of Geometry). Concurrent English Lang \& Lit III and Algebra II are strongly recommended
Conceptual Physics has a hands-on, minds-on, project-based focus that illustrates the concepts of Physics while utilizing algebra, geometry, analysis, and critical thinking to quantify those concepts. The course requires students to develop a deep conceptual understanding of the following topics: Newtonian mechanics, work, energy, and power; mechanical waves and sound; electric charge, electric force, and basic electric circuits.
This course emphasizes scientific exploration and experimentation. Students are expected to engage in classroom experiences by asking more questions, exploring and discussing possible solutions, investigating science concepts, using argumentation, and being fully active in the learning process. Additionally, this course incorporates important engineering, technology, and innovation principles for all students.

## Physics (A)

Credits: 6

## Grades 11, 12

Prerequisite - A- or better in Geometry, B or better in Algebra II; concurrent in Precalculus is strongly recommended.
The study of physics is necessary for scientific study and research in fields including engineering and medicine. This course emphasizes both conceptual understanding of physical relationships as well as the ability to analyze these relationships quantitatively, which requires a significantly more advanced use of algebra than in chemistry as well as right angle trigonometry. Students not proficient in right angle trigonometry will be required to learn the skills during the class in order to be successful in the course. Laboratory experimentation in the course is an important part of understanding concepts and quantitative relationships.

## Physics (Honors)

Credits: 6

## Grades 11, 12

Prerequisite -Successful completion of Chemistry and Algebra II
Honors Physics is an in-depth course involving the observation/description, data gathering/analysis, and concept formation of physical phenomena. This is a very challenging course that requires excellent math skills.

## Earth \& Space Science

$\qquad$ Credits: 5

## Grades 11, 12

Prerequisite - Successful completion of 2 years of science
This course is designed to be a survey of the sciences that are studied when dealing with the forces that affect our planet. The branches of science that will be covered are Astronomy, Geology, Meteorology and Oceanography. The students will be introduced to plate tectonics, earthquakes, volcanism, the prediction of systems of weather, the processes of the earth, planets, and stars with regard to scales of time and size, the geography and geology of ocean basins, chemistry of sea water, physical dynamics of currents, waves, and tides, coastal processes, and the large scale circulation of the ocean.

## Science Department Electives

## Astronomy (A)

Credits: 2.5

## Grades 10, 11, 12

Astronomy begins with the study of galaxies and the distribution of stars, developing appropriate units of measurements for each. The course continues with the principles of mass, gravitation, and motion within the universe with consideration given to theories of the origin and destiny of the universe. Various methods of observing by using a wide variety of astronomical instruments are studied.

## Environmental Science (A) <br> Credits: 5 <br> Grades 11, 12 <br> Prerequisite - Biology and Chemistry

An in-depth study of the relationships between chemistry and our biosphere will serve as the foundation of inquiry in this academic course. Major environmental concerns will be studied, researched, and analyzed throughout the year. Topics will include: environment, global ecology, population, living resources, energy, water environment, air pollution, and societal factors. NOTE: Not a substitute for Conceptual Physics, Academic Physics, or Honors Physics. It is expected that a student will pursue a physics course concomitantly or before he/she enrolls in Environmental Science.

## Exercise Physiology (A)

 Credits: 2.5
## Grades 10, 11, 12

Prerequisite - Academic Biology, Chemistry or concurrently taking Chemistry
The course begins with a historical perspective on the study of exercise. Students then move into homeostasis, the creation of ATP and metabolism. Obesity, body composition and nutrition are studied as they relate to exercise. Finally, the benefits of exercise on the nerve, muscle and cardiovascular systems are examined. Students are required to exercise throughout the semester. Four field trips provide additional fitness opportunities for enrolled students. The topics covered in this course include:

- The History of Exercise
- Homeostasis
- Bioenergetics
- Metabolism
- Body Composition
- Nutrition
- Nerve Structure
- Muscular System
- Cardiovascular system


## Forensic Science (A)

 Credits: 2.5
## Grades 10, 11, 12

Prerequisites-Successful completion of Biology. Successful completion OR concurrent enrollment in Chemistry or Physics This specialized course draws from all disciplines of science to demonstrate the use of scientific knowledge in criminal investigation. Emphasis will be placed on principles of biology, chemistry, and physics in all topics covered. Subject areas will include processing a crime scene, eyewitness testimony, forensic anthropology and odontology, blood spatter analysis, DNA analysis, forensic pathology, fingerprints, impression evidence, hair/fiber evidence, toxicology, questioned documents, forensic psychology, forensic engineering, firearms evidence, crime scene reconstruction, and jurisprudence. Emphasis will be placed on laboratory investigation.

General Anatomy \& Physiology (A)
Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Biology \& Chemistry or concurrently taking Chemistry
As you make your way through this course, you will be learning about one of the most fascinating subjects possible -your own body. If you are to appreciate emerging discoveries in medicine, to understand new techniques for detecting and treating disease, and to make use of published facts on how to stay healthy, it is important to learn about the workings of your body and the basic concepts that form the foundation of Anatomy and Physiology. The TLC series "Trauma: Life in the ER" and "Code Blue" will be an important teaching tool in this class. Students interested in a second semester of anatomy \& physiology should take Medical Physiology. Dissection is mandatory for this class.
This course will cover the following topics:

- Human Body: An Orientation
- Cells \& Tissues
- Biochemistry
- Muscular System
- Skeletal System
- Membranes \& Integumentary System
- Nervous System
- Sense

Genetics (Honors) $\qquad$ Credits: 3

## Grades 11, 12

Prerequisite - Concurrent enrollment in AP Biology
This course examines the concepts of genetics \& genomes, Mendelian and modern genetics, molecular biology, gene regulation, biotechnology, evolutionary connections and biodiversity. In addition, careers/ branches of genetics along with bioethics (ELSI) are included throughout each unit covered in the curriculum.

## Human Anatomy \& Physiology (A)

 Credits: 5 Grades 10, 11, 12Prerequisite - Biology \& Chemistry or concurrently taking Chemistry
Human Anatomy and Physiology is a yearlong combination of Medical and General Anatomy and Physiology that will include an additional unit on respiration. As with the current semester electives, field trips and dissections will be part of the curriculum.

## Introduction to Engineering (Honors) Credits: 7 <br> Grades 11, 12

Prerequisite - Successful completion of Academic Physics (A- or better) or concurrently taking AP/Honors Physics
In this honors level laboratory course, students interested in science and technology based careers are exposed to both the academics and applications experienced when majoring in engineering. Topics in mechanical, electrical, materials, energy production, civil, biomedical, and industrial engineering are explored. Principles of science and mathematics will be applied to solve tasks in multidisciplinary projects in which teams of students collaborate to develop communication, academic, and technical skills. Project activities include proposals, research and development, design, experimentation, presentations, reports, and assessments.

## Marine Biology (A)

## Credits 2.5

## Grades 10, 11, 12

Prerequisite - Successful completion of Biology
This course is designed to introduce students to the various marine environments of the world and the organisms found in them. Emphasis will be placed on the biological features of the oceans, organism-habitat relationships, and general ecological concepts influencing marine populations and communities. Topics will include learning the ecological relationship between flora and fauna, realizing influences that affect marine organisms, and identification of popular species of animals. Dissection of several marine species and identification of marine macro- and microfauna are integral components of this course.

## Medical Laboratory Technique <br> Credits: 5

## Grades 11, 12

Prerequisite - Successful completion of 2 years of Science
This specialized science course is designed to provide the knowledge of equipment and techniques, which will enable you to qualify for employment in hospitals, clinical laboratories, and similar technical areas. It will prove valuable to you if you are considering nursing, allied health fields, or planning to major in Biology or Pre-Med in college. Areas studied include basic chemistry, preparation of solutions, and instruction on operation of medical testing equipment. Basic techniques are introduced in urinalysis, hematology, serology, and bacteriology, as well as independent work in areas of interest.

## Medical Physiology (A)

 Credits: 2.5
## Grades 10, 11, 12

Prerequisite - Biology \& Chemistry or concurrently taking Chemistry
This class will thoroughly cover 5 major body systems and medical issues involving these systems. This is a more challenging class in that it focuses not only on the anatomy \& physiology of those body systems but will include discussions about medical problems and treatments (clinical application). The TLC series "Trauma: Life in the ER" and "Code Blue" will be an important teaching tool in this class. This class will cover body systems not covered in General Anatomy \& Physiology. Although General Anatomy \& Physiology is NOT a pre-requisite, those students interested in an indepth study of the human body should take both classes. Dissection is mandatory for this class.
This course will cover the following topics:

- Urinary System
- Cardiovascular System
- Digestive System
- Immune System
- Respiratory System
- Human Development

Microbiology (H) Credits: 5

## Grades 10-12

Prerequisite - Successful completion of Biology and Chemistry (or concurrently enrolled)
Microbiology will discuss the importance of microorganisms not only as causative agents of disease, but also as major contributors to food production, antibiotic manufacture, vaccine development, regulators of ecological systems and environmental management. Eukaryo, bacteria, protists, algae, fungi, viruses, viroids, and prions will all be explored. Biotechnology laboratories and inquiry-based activities will be implemented throughout the course. Science, technology, engineering, and math will thread throughout the curriculum.

The study of microbiology is extremely rewarding, leading to advances in the welfare of the environment as well as human populations. Studying the above topics will lead to careers in:

## Oceanography/Meteorology (A)

Credits: 2.5

## Grades 10, 11, 12

The first half of the semester is devoted to Oceanography, the study of the distribution of land and water, the ocean-floor topography and sediments, the properties of water and seawater, the characteristics of the open ocean and the coastal ocean, ocean currents, waves, and tides. The second half, Meteorology, will cover the atmosphere and solar radiation effects, pressure, winds, circulation, precipitation, air masses, fronts, storms, weather forecasts, and climate.

Organic \& Biochemistry (Honors) $\qquad$ Credits: 6

## Grades 11, 12

Prerequisite - Successful completion of Biology and one full year of Chemistry
This is an advanced chemistry course which will explore special topics in chemistry not covered in the Chemistry or AP Chemistry curriculum. Students will build on the foundation from their first year of Chemistry and develop an understanding of basic Organic Chemistry and Biochemistry. This course provides a survey of the structure, properties, and reactions of the major functional classes of organic and biological molecules and basic principles of metabolism and molecular biology. This course will be especially helpful to those students planning to major in fields that rely on organic and biochemistry (Pharmaceutics, Pre-Med, Nursing, Nutrition, Chemical Engineering, Chemistry, etc.).

## Social Studies

Supervisor: Ms. Jennifer Edge- 908-231-8660 ext. 2264
The State of New Jersey requires that a student successfully complete one year of world history/cultures, and a two year program in U. S. History. Each of the full year courses earns 5 credits. World Civilizations II is the second year of a two year program beginning in the $8^{\text {th }}$ grade. The United States History courses are sequential and are divided at World War I.
The following flow charts illustrate possible sequencing of courses within the department. Students are encouraged to take the most challenging courses (differentiated by level of rigor) in which they will be most successful. Movement across options is possible. This is determined by student ability, motivation, and achievement. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.

Option \#1 Most Rigorous


Option \#2 Highly Rigorous


Option \#3 Very Rigorous


Option \#4 Rigorous


Option \#5 Less Rigorous
$\square$

## Social Studies Department Course Descriptions

## Advanced Placement U.S. History I ......................................................... Credits: 5 Grades 10, 11

## Advanced Placement U.S. History II II. Credits: 5

## Grades 11, 12

AP American History is a two year program that meets the state requirement in U.S. History. The curriculum of AP American History I \& II follows the recommendations of the CollegeBoard and is designed to prepare the student for the Advanced Placement exam. The curriculum includes an in-depth study of American History from the colonial period to the present. Political, social, and economic issues are studied. The AP student is expected to take the Advanced Placement American History Exam in May of his/her junior year. Summer assignment required in each course.

## Social Studies SI

Credits: 5

## Grades 9, 10, 11, 12

This multi-grade/multi-ability-level course for beginning, intermediate, and advanced English Language Learners (ESL I, II, III) will meet both social studies content objectives and language objectives in a differentiated, sheltered-instruction learning environment. With access to a variety of texts and materials, this course will account for both American and world history in an effort to bridge student progress for placement the next year into the grade-level appropriate social studies course.
U.S. History I (A, S)

Credits: 5

## Grades 10, 11

Participation in the Standard (S) level course is an academic placement decision.
This course, a requirement for graduation, is a survey of the period 1585 to 1914. You will gain an understanding of the political, economic, and social development of the nation and of major domestic and foreign issues in the time period of the course. There are eight units of study composing the course. You will study: founding of our nation, nationalism, expansion and sectionalism, economic and political development, foreign policy, and the development of culture and thought. New Jersey history will also be an integral part of the course. The course will be offered at both a standard and an academic instructional level.

## U.S. History I (Honors)

Credits: 5

## Grades 10, 11

This program is available to students who demonstrate an interest and an aptitude for in-depth study of American History. Students will be required to do concentrated reading and writing, an in-depth study of various interpretations of American history, individual research, and independent study.

## Grades 11, 12

Participation in the Standard (S) level course is an academic placement decision.
This is a mandatory full year course required of all students for graduation. The course is a survey of American history from World War I to the contemporary world. A thematic approach to the study of political, economic, and social changes as well as major foreign policy events will highlight this course. The course will be offered at both a standard and an academic instructional level.

## U.S. History II (Honors)

Credits: 5
Grades 10, 11
This program is available to students who demonstrate an interest and an aptitude for in-depth study of American History. Students will be required to do concentrated reading and writing, an in-depth study of various interpretations of American history, individual research, and independent study.

## World Civilizations II (A, S) Credits: 5

## Grade 9

Participation in the Standard (S) level course is an academic placement decision.
This is a state-mandated, full-year course required of all incoming freshmen. Students must successfully complete the course in order to earn credit toward fulfilling the state-mandated graduation requirement. World Civilizations II is a continuation of World Civilizations I begun in $8^{\text {th }}$ grade. The focus of the first year of this course was western civilization. The focus of World Civilizations II is non-western civilizations from 1350 through contemporary issues. Students will gain an understanding of the geography, environment, economic innovation/technology, history, and culture of major nonwestern civilizations.

## World Civilizations II (Honors) <br> Credits: 5 <br> Grade 9

This program is available to students who demonstrate an interest and an aptitude for in-depth study of World Civilizations. Students will be required to do concentrated reading and writing, an in-depth study of various interpretations of World Civilizations, individual research, and independent study.

## Social Studies Electives

The Social Studies Department offers elective courses to meet student needs and interests. Students are welcome to take any or all of these courses but are reminded that none of these courses meets the New Jersey State Mandate for three years of Social Studies.

## Advanced Placement European History Credits: 5 Grades 11, 12

This course is offered for students who want preparation for the advanced placement exam in European history. This course will strive to strike a balance between factual knowledge and critical analysis. The major themes of study include the following: political and diplomatic history, intellectual cultural history, and social and economic history. This course will cover European history from 1450, the high Renaissance, to the recent past.

## Advanced Placement Government and Politics, US <br> $\qquad$

 Grades 11, 12This course is offered for students who want preparation for the Advanced Placement exam in Government and Politics, United States. It will give students an analytical perspective on government and politics in the United States. Government and Politics will include both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It will also require familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. There are six major topics in the course: I. Constitutional Underpinnings of United States Government; II. Political Beliefs and Behaviors; III. Political Parties; Interest Groups and Mass Media; IV. Institutions of National Government; V. Public Policy and, VI; Civil Rights and Civil Liberties.

## Advanced Placement Psychology <br> Grades 11, 12

$\qquad$ Credits: 5

This course is offered for students who want preparation for the Advanced Placement exam in Psychology. Students will be introduced to the discipline of psychology by emphasizing the history of psychology as a science, the different theoretical approaches that underlie explanations of behavior, and the contemporary research methods used by psychologists. The course traces the emergence of scientific psychology in the nineteenth century from its roots in philosophy and physiology and covers the major "schools" of psychology, showing how these schools differed in what they viewed as the proper subject matter of psychology and the methods used to study it. The scientific nature of psychology is made clear through coverage of the methods psychologists use to answer behavioral questions. Emphasis is given to the experimental method and issues of appropriate experimental sampling and control. Finally, students learn about the many different fields within psychology and about the importance of ethics in both scientific research and the practice of psychology.

## Advanced Placement Research

Credits: 5

## Grade 12

Prerequisite - At least a course grade of B- in AP Seminar
AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question.
In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

## Advanced Placement Seminar

## Credits: 5

## Grades 11, 12

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

## Advanced Social Studies-Abnormal Psychology* ....................................... Credits: 2.5 <br> Grade 12

Prerequisite - At least a course grade of B- in AP Psychology
This course covers the major psychological disorders related to patterns of maladaptive behavior. It emphasizes biological, psychological, and social perspectives on causation, treatment, and prevention of these. Topics covered include the following: Defining "abnormality" and maladaptive behavior; History of concepts and treatment for psychological disorders; Biological, psychological, social models of psychological disorder; Research methods in clinical psychology; Diagnosis of psychological disorders; Clinical psychological testing and measurement; Disorders of childhood and adolescence; Anxiety, somatoform, dissociative disorders; Psychological factors in illness and injury; Personality and impulse control disorders; Substance abuse and dependence; Sexual and gender identity disorders, sexual assault; Mood disorders; Suicide; Schizophrenia; Cognitive and neurological disorders; Legal and ethical issues in mental health. Students will develop an appreciation of the range of behaviors that can be characterized as "abnormal" and the treatments for these disorders. Students will also gain an appreciation of how the "abnormal" behaviors studied in class are not unusual, but rather a part of everyday life.
*This course will be given AP weight in the calculation of the student's GPA.

## Advanced Social Studies-Social Psychology*

 Credits: 2.5
## Grade 12

Prerequisite - At least a course grade of B- in AP Psychology
Social Psychology will focus on the way people think, feel, and act as individuals and groups within social situations. Students will cultivate the skills necessary to recognize and respond to social situations and events they encounter in their everyday lives. Topics to Include: Conformity and Obedience; Prosocial behavior and Antisocial behavior; Stereotypes and Prejudice; Persuasion; Interpersonal attraction. The course will involve examining experiments, current research, and writing. Students in the course will be expected to participate in regular discussions in a seminar style using research. *This course will be given AP weight in the calculation of the student's GPA.

## American Law (A)

## Credits: 2.5

Grades 10, 11, 12
This semester elective is designed to acquaint students with both legal rights and responsibilities. Court decisions, case studies, and guest speakers will be used to give students practical insight into the mechanics of the judicial process and the theory of the legal system. Students will study criminal, civil, tort, contract, consumer, juvenile, and constitutional law.

## Civics (A)

 Credits: 2.5Grades 9, 10, 11, 12
Civics is the study of citizenship and government. This one-semester course is an investigative study of American political behavior that provides students with a basic understanding of civic life, politics, and government at both a federal and state level. The class includes a short history of government's foundation and development in this country and also explores current issues the different branches are addressing. Students will learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students will also explore how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today. The focus of this course is to prepare students to participate in exercising their political responsibilities as thoughtful and informed citizens.

## Cultural Ceramics

## Credits: 2.5 in Art or Social Studies

## Grades 9, 10, 11, 12

All societies depend upon the earth for survival. By carefully using earthen materials to express themselves and the beliefs of their culture people worldwide and throughout time have created ceramics. Students in Cultural Ceramics investigate the values and beliefs of one culture by discovering and interpreting its art and works in clay. In a personal way, students then explain the work of the other culture and express themselves by creating ceramic objects. Students declare for credit in art or social studies and follow appropriate course requirements.

## Economics Today (A)

Credits: 2.5
Grades 9, 10, 11, 12
This semester course will meet the 2.5 credit state requirement for financial, economic, business, and entrepreneurial literacy. The course is designed to teach students about key principles of economics and how Economics relates to them. Students are provided an opportunity to analyze and assess the cause/effect relationships of economics. Students will take a "hands on" approach in understanding the real life application of the economic infrastructure and their role in it. The course will enhance student competence in understanding theoretical underpinnings and functional knowledge in economics to become informed consumers, producers, and citizens in today's world.

## Global Studies (A)

 Credits: 5 Grade 12Today, we find that many problems have transcended the boundaries of nations and have become global issues. Issues such as economic development, environmental concerns, energy alternatives, national security, and human rights have become concerns for all humankind. This course will examine major global issues at a level appropriate for the student.

## Global Studies (Honors) Grade 12

This full year course is aimed at those students who demonstrate an aptitude for concentrated study in the social studies. As in other honors level courses, students will be required to complete extensive reading and writing, individual research, and independent study. The course content will be tied to global issues such as economic and human development, environmental problems, global security, and the idea of alternative futures. The approach will be one of problem solving.

## Historical Exploration

 Credits: 2.5
## Grades 11, 12

Historical Exploration is an academic level, project based, elective course offered only in the first semester to coincide with the National History Day competition. Students will have the unique opportunity to research, analyze, and present a historical topic of interest that coincides with the annual theme for National History Day. The course will enable students to develop their research and presentation skills, as well as to expand their knowledge of and interest in a particular US History topic. Students with a real interest and passion for American history will find this course particularly appealing.

## Human Development (A)

Credits: 2.5
Grades 10, 11, 12
In this introduction to psychology, students will survey the thematic topics of: human development, personality, and the learning process as well as the working of the mind and body. As a result, students will better understand themselves, their personal needs, and the desire for positive and constructive behavior.

Pop Culture: 20 ${ }^{\text {th }}$ Century. ............................................................................. Cre. C.

## Grades 10, 11, 12

This course will provide students with an understanding of major trends in art, literature, movies, music, radio, television, theater, and fads during the last 100+ years. Students will gain an understanding of these cultural trends set against the backdrop of World War I, the Roaring 20's, the Great Depression, World War II, the Cold War, the Era of Camelot and the Great Society, the Vietnam Era, and the Post-Cold War era.

## Sociology (A)

Credits: 2.5

## Grades 10, 11, 12

This semester elective is designed so that you will be able to analyze the social structure of American and global society. You will study the tools of sociology, socialization, social interaction, social forces, the concept of social structure, and the five social institutions. You will also examine current changes and problems of American and global society. Topics such as crime, deviance, racial, ethnic and gender issues, organization, and social fads are all examined.

## Women's Studies: Evolving Image of Women (A) Credits: 2.5 <br> Grades 9, 10, 11, 12

This semester elective will explore how traditional gender roles were both developed and challenged with the growth of the United States through the $19^{\text {th }}$ Amendment. Students will explore the impact of these traditional gender roles on the lives of women today, both in the United States and around the world, in the context of issues like health and reproduction, crime and abuse, and the media and body image. One of the goals of this course is to break down preconceived notions and to inform and change attitudes about women in American society as well as women around the world.

## Women's Studies: Social Change, Changing Gender Roles (A) ................. Credits: 2.5 Grades 9, 10, 11, 12

This course will examine how modern gender roles have been shaped and changed by the events and trends of the $20^{\text {th }}$ Century. Gender roles in the family and workplace are affected by social, economic, and political changes. Students will explore how key events of the $20^{\text {th }}$ century also influenced women in different regions around the world. One of the goals of this course is to break down preconceived notions and to inform and change attitudes about women in American society as well as women around the world.

## World Languages

Supervisor: Ms. Maria Kostis - 908-231-8660 ext. 2268
The following flow charts illustrate possible sequencing of courses within the department. Students are encouraged to take the most challenging courses (differentiated by level of rigor) in which they will be most successful. Movement across options is possible. This is determined by student ability, motivation, and achievement. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.

Option \#1 Most Rigorous


Option \#2 Very Rigorous


Option \#3 Rigorous


Specific Language Flow
Chinese


French


## German



## Italian



## Latin



## Spanish



## Changing a World Language Honors Course:

It is suggested to start the world language honors program in level II. The study of a world language is cumulative and the honors curriculum is the most rigorous, thus naturally providing the students with much knowledge and many language skills. Moving into a world language honors course from the academic program in level III and above requires intensive summer study to enhance knowledge and skills to allow for success in the honors course.

The dropping of a world language honors course is serious and can be done only with the written permission of the parent/guardian and consultation with the School Counselor and department supervisor. Students who drop a world language honors course for whatever reason and request to take an academic level course instead must make a lateral move. They cannot change course levels. Example: A student dropping Spanish III H must switch into Spanish III A. She/he may not schedule into Spanish IV A.

## Advanced Placement Chinese, French, German, Italian, Spanish Language

 Credits: 5 Grades 11, 12Prerequisite - Level IV-H or departmental approval
The Advanced Placement Chinese, French, German, Italian, or Spanish Language course is intended for those students who wish to take the Advanced Placement Examination in May. The course is designed to develop students' knowledge of Chinese, French, German, Italian, or Spanish equivalent to a third year college course. Great emphasis is placed on the mastery of interpretive (listening and reading), interpersonal (person to person), and presentational (speaking and writing for an audience) skills.

A continuing focus will be the development of vocabulary and idiomatic language usage, the advancement of cultural knowledge and skills, and the ability to communicate actively in a variety of oral and written forms. A comprehensive review of grammar/characters (Chinese) is also included. Each curriculum provides a challenging program that may lead to college credit or to a student being accepted into an advanced program as a college freshman. Summer assignment required.

## Advanced Placement Latin

Credits: 5

## Grades 11, 12

Prerequisite - Latin IV-H or departmental approval
The Advanced Placement Latin course is intended for students who wish to take the Advanced Placement - Virgil Examination in May. Students will engage in a close reading of the Aeneid. They will improve their vocabulary and translation skills and learn how to interpret and analyze a masterpiece of literature. They will study the Aeneid against the backdrop of Roman history, mythology, and philosophy. Students will become sensitive to Virgil's elaborate style; they will improve their analytical and higher-order thinking skills, which will serve them well in college and at their future workplace. The curriculum provides a challenging program that may lead to college credit or to a student being accepted into an advanced program as a college freshman. Summer assignment required.

Chinese I, French I, German I, Italian I, Latin I, and Spanish I. Credits: 5
Level I courses are introductory courses designed for students who are beginning their study of the language for the first time. Students will develop the skills of listening, speaking, reading and writing in the target language. Students will learn about the culture of the country or countries studied.

## Chinese II, French II, German II, Italian II, Latin II, and Spanish II - Academic <br> $\qquad$ Credits: 5 <br> Prerequisite - successful completion of Level I (MS or HS)

Level II courses are for students who completed Level I at the High School or Middle School. Students will continue to develop the skills of listening, speaking, reading and writing in the target language. Proficiency based assessments are an integral part of the course

## Chinese II, French II, German II, Italian II, Latin II, and Spanish II - Honors Credits: 5

Prerequisite - successful completion of Level I (MS or HS)
Level II honors courses enable motivated students to continue to develop the skills they learned in level I at a more rigorous pace. Emphasis is placed on improving speaking and writing skills. Proficiency based assessments are an integral part of the course

Chinese III, French III, German III, Italian III, Latin III, and Spanish III - Academic...... Credits: 5
Prerequisite - successful completion of Level II
Level III courses are designed to further individual development of the essential communication skills. Oral proficiency is emphasized. Students read and discuss short stories and selections from contemporary articles on topics of cultural interest. Proficiency based assessments are an integral part of the course.

## Chinese III, French III, German III, Italian III, Latin III, and Spanish III - Honors. <br> $\qquad$ Credits: 5

Prerequisite - successful completion of Level II
Level III Honors courses are designed to further individual development of the communication skills at a rigorous pace. Students will read and discuss short stories and selections from contemporary articles on topics of cultural interest. Grammar will be studied to facilitate accuracy of comprehension and self-expression. Extemporaneous discussion, as well as writing skills, will be incorporated into each unit of study. Proficiency based assessments are an integral part of the course.

## Chinese IV, French IV, German IV, Italian IV, Latin IV, and Spanish IV - Academic <br> $\qquad$ Credits: 5

Prerequisite - successful completion of Level III
Level IV courses are designed for students to further develop their communication skills. Reading selections are an important component of the program, and they will help increase students' vocabulary and cultural knowledge. The readings will form the basis for discussion and problem solving. In many types of writing, more creativity will be expected. Knowledge of structural principles of the language will be reviewed in depth and expanded upon with the focus on producing structures to support communication. Proficiency based assessments are an integral part of the course.

Chinese IV, French IV, German IV, Italian IV, Latin IV, and Spanish IV - Honors $\qquad$ Credits: 5
Prerequisite - successful completion of Level III
Level IV Honors is designed to further individual development of communication skills at a rigorous pace. Students will read and discuss short stories and selections from contemporary articles on topics of cultural interest. Students will be provided with ample opportunities to create meaning and use critical thinking skills in order to achieve linguistic proficiency. Grammar learning will take place within a meaningful context, with the focus on producing structures to support communication. Proficiency based assessments are an integral part of the course.


#### Abstract

Chinese V, French V, German V, Italian V, Latin V, and Spanish V - Academic Credits: 5 Prerequisite - successful completion of Level IV Level V courses offer students an opportunity to learn to communicate on an advanced level by reading and discussing many different types of texts. Through reading of literature, as well as selected articles from supplementary materials, vocabulary and comprehension are greatly increased. Classroom activities are designed to give students frequent opportunities to improve oral skills through discussions, impromptu conversation, role playing, and oral reports. Students' writing ability is refined by varied written assignments, grammar review exercises and creative writing. Further insights into the cultures of the countries as well as social issues are gained through a variety of technology-based projects and activities involving problem-solving.


Spanish for Heritage Speakers - Beginners Credits: 5
Prerequisite - departmental approval only
The purpose of Spanish for Heritage Speakers is to help students capitalize on their native speaking ability. Students will also improve their reading and writing skills. Instruction will be individualized to meet students' various needs. All students must be tested before being scheduled into this class.

# Health \& Physical Education <br> Supervisor: Ms. Lois Fyfe - 908-231-8660 ext. 2220 

## Physical Education I, II, III, IV <br> Required (all students)

$\qquad$ Credits: $\mathbf{3}$ or 3.75 per year

The Bridgewater-Raritan Physical Education Department is committed to educating our students to become lifelong learners of wellness by participating in activities that encourage good health and appropriate social skills and that promote physical fitness in and outside the educational settings. Bridgewater-Raritan students must be provided with opportunities to engage in a physical education program that will develop the necessary skills to participate in individual and team sports and that foster a positive attitude towards physical activities. Students will experience a coeducational physical education program involving large group, team, dual, cooperative, and individual activities.
In ninth and tenth grade, students will be exposed to a variety of activities which include: group initiatives, low confidence course, fitness, field hockey, basketball, floor hockey, lacrosse, soccer, softball, table tennis, team handball, and volleyball.

In grades eleven and twelve, students have the opportunity to participate in a variety of activities that include: aerobics, badminton, basketball, football, hockey sack, pickle ball, soccer, softball, table tennis, punch ball, tennis, ultimate Frisbee, volleyball, weight training, yoga, and the high confidence course.


#### Abstract

PE Partners $\qquad$ Credits: 5

\section*{Grades 11, 12}

In lieu of Physical Education III or IV, students can apply to the PE Partners program. P.E. Partners is a collaboration between the special education and physical education departments in which students with developmental disabilities and autism are partnered up with typical students to promote socialization in an active environment.


## Health I <br> Required-Grade 9

Ninth grade Health allows students to investigate the teenage behaviors, human physiological functions, and the avoidance of sexually transmitted diseases including HIV/AIDS. In furthering the wellness concept, students review the methods of balanced nutritional diets and importance of physical fitness as integral parts in total well-being. Other units of study during ninth grade health include: Body Systems, Family Living, Alcohol -Tobacco and Other Drugs, Diseases, Sexuality, Abstinence Education, and Effective Communication Skills.

## Health II

Credits: 1 or 1.25

## Required-Grade 10-Driver Education Theory

Tenth grade Health involves the study of the automobile in modern life and aims to develop mature attitudes and proper habits for safe driving. It is an aid in preparing for the written examination given by the State Department of Motor Vehicles. Included in this course will be a continued study of drugs, alcohol, and tobacco along with their relationship to the operation of a motor vehicle.

## Health III <br> Required-Grade 11

## Credits: 1 or 1.25

Eleventh grade health includes topics such as Family Living, Mental, Emotional and Social Health, and Human Growth and Development. Students will examine societal influences and the factors that weaken or strengthen relationships. Through a variety of structured classroom experiences, students will learn problem-solving strategies to utilize when confronted with different situations. (Topics can include: healthy or unhealthy relationships, death, harassment, drugs, and diseases). Students will also explore personality development and feelings of positive self-worth. Through a variety of exercises involving the decision making process, students will increase their coping skills in such areas as stress, peer pressure, substance abuse, suicide, and risk situations of sexual assault and abuse.

## Health IV

## Credits: 1 or 1.25

## Required-Grade 12

Senior health units include: Cardiopulmonary Resuscitation, Family Living and Human Growth and Development and Disease Prevention. During CPR, students will be given a practical approach to life saving techniques and methods to avoid injuries and illnesses. (Students also have the opportunity to become certified in CPR). During Family Life and Human Growth and Development, students will recognize the development of a child from conception to birth. Students will also study pre-natal and infant care, budgeting for childbirth process, and other responsibilities of parenthood and childrearing.

## Performing Arts

Supervisor: Dr. Laura Craig - 908-231-8660 ext. 2269
The following flow chart illustrates the sequencing of courses within the department. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.


## * Audition required.

## Performing Arts Department Course Descriptions

Advanced Placement Music Theory $\qquad$ Credits: 5

## Grades 11, 12

Entrance requirements - Students will be selected for admission to AP Music Theory based on the following criteria:

- music teacher recommendation
- Music Workshop I grades or demonstrated equivalent mastery of theory

This full-year course will provide the student with the equivalent of a college-level music theory course in the study of musical materials, structure, and style. It will integrate melodic, harmonic, textural, rhythmic, and formal aspects of music through musical reading, notation, composition, and active musical listening. Each student's understanding of music history and style will be enhanced by the selection of course materials from the widest possible variety of musical periods, genres, and media. Students are encouraged to take the AP examination in May.

## Concert Band

$\qquad$ Credits: 5

## Grade 9

Band is a full year course where students study and perform standard, popular, and contemporary band literature. The band plays for school functions such as assemblies, athletic programs, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concert and community service performances are a natural outgrowth of this program. Participation is mandatory. Students participating in band are eligible to audition for the orchestra, wind ensemble, jazz ensemble, small ensemble, region and all-state activities.
Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## Mixed Choir

Credits: 5

## Grades 9, 10, 11, 12

This course is designed to introduce and develop healthy vocal technique in ninth grade singers. The Mixed Choir is comprised of students who enjoy singing and want to participate in the four major choir events: the Winter Concert, Festival of the Arts, Broadway Night, and the Spring Concert. All freshman interested in singing are automatically signed up for this ensemble. Many students enrolled in this course wish to make a select ensemble in the future; skills necessary for admission into a select ensemble are a major focus of this class.

The three mandatory rehearsal requirements of the Mixed Choir, in addition to the four major performances of the year, are the Winter Concert dress rehearsal, Festival of the Arts dress rehearsal, and the Spring Concert dress rehearsal.

Students are not required to give extra time beyond these major responsibilities, but they are always encouraged to get involved. Students will have opportunities to audition for solos, Broadway Night, and after school ensembles: Lorelei, Ensembros, and Glee Club.
All BRHS choirs work on vocal technique and sight-reading skills that will help them to improve their confidence and performance should they aspire to become members of the select ensembles and reach a higher level of singing.
Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

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Music Workshop.
    Credits: 5
Grades 9, 10, 11, }1
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This course presents an introduction into the basics of music. Included will be the study of the history of music, the development of good listening skills, an introduction to the basic theory of music, and a look into the future via contemporary and electronic music. Class activities will include listening to recordings of ancient through contemporary music, an introduction to composition, and concert attendance.

## Select Women's Choir

$\qquad$

## Credits: 5

## Grades 10, 11, 12

The Select Women's Chorus is the only curricular all-female group offered at BRHS. This course is designed to continue to develop sight-reading and vocal technique in the developing female voice. Young women in this course often find themselves singing a variety of different voice parts. The Select Women's Choir rehearses and performs a wide variety of repertoire, ranging from renaissance polyphony to contemporary choral compositions, spirituals, and popular song.
The three mandatory rehearsal requirements of the Mixed Choir, in addition to the four major performances of the year, are the Winter Concert dress rehearsal, Festival of the Arts dress rehearsal, and the Spring Concert dress rehearsal.

Students are not required to give extra time beyond these major responsibilities, but they may do so if they wish. Students will have opportunities to audition for solos, Broadway Night, and after school ensembles: Lorelei and Glee Club.

As always, the BRHS Choir Program hopes to prepare the members of the Select Women's Choir for a higher level of music should they decide to audition for one of the select groups in the future.
Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## String Orchestra

## Credits: 5

## Grades 9, 10, 11, 12

The String Orchestra rehearses and performs the standard orchestral literature ranging from Baroque to 20th Century music. The group performs at school assemblies, concerts, and festivals outside the school. Within the String Orchestra are chamber groups that perform for a variety of other events. Wind and percussion players who are current Band class members are accepted, upon successful audition, to augment the String Orchestra for scheduled rehearsals and concerts. Participation at scheduled performances is mandatory.

Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## Symphonic Band

 Credits: 5
## Grades 10, 11, 12

Band is a full year course where students study and perform standard, popular, and contemporary band literature. The band plays for school functions such as assemblies, athletic programs, and special programs. It also appears at selected civic functions and trips to area or regional festivals. Evening concert and community service performances are a natural outgrowth of this program. Participation is mandatory. Students participating in band are eligible to audition for the orchestra, wind ensemble, jazz ensemble, small ensemble, region and all-state activities.

Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## Symphonic Choir (Honors) Credits: 5 <br> Grades 10, 11, 12

The Symphonic Choir is the premier curricular ensemble at BRHS. Its 40 members were selected by a placement audition held in May of the previous year. Students are selected for this group based on their musical audition (tone quality, intonation, musicianship, sight-reading, independence, preparation, tonal memory) and their attitude (ability to work with others, reliability, enthusiasm, dependability).

In addition to participating in the four major choir events throughout the year, the Symphonic Choir prepares repertoire that is performed at festivals and competitions throughout the year. Symphonic Choir will perform challenging music at a high level of proficiency. Though wide-ranging, students will encounter music that represents the very best compositions from the choral repertory, including madrigals, motets, major works, spirituals, and contemporary choral compositions. A member of Symphonic Choir is responsible for being at all rehearsals and performances listed in the BRHS Choir Calendar.

Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## Symphony Orchestra (Honors) Grades 10, 11, 12 <br> Prerequisite - by invitation of the director; audition required

The Symphony Orchestra performs advanced orchestral literature, and may be combined with winds and percussion to form a full symphony orchestra. There is strong emphasis on individual performance, leadership, responsibility and musical growth in the exact execution of challenging literature. Participation is by audition and recommendation of the instructor and governed by a rigid consideration for balanced instrumentation. Scheduled public performances are a requirement of the course.

Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions individual, if possible, though more likely in small groups.

## Wind Ensemble (Honors) Credits: 5 <br> Grades 10, 11, 12

Prerequisite - by invitation of the director; audition required
The Wind Ensemble performs advanced band-style literature in the context of a chamber ensemble. Often requiring only a single player on a part, there is strong emphasis on individual performance, leadership, responsibility and musical growth. Participation is by audition and recommendation of the instructor and governed by a rigid consideration for balanced instrumentation. Scheduled public performances are a requirement of the course.
Included in all choir and instrumental courses are voice and instrument lessons and coaching sessions, individual, if possible, though more likely in small group.

## Business Education <br> Supervisor: Dr. Leonard Herman - 908-231-8660 ext. 2263

The Business Education Department provides students with a dynamic experience in the field of business and technology. It is the integration of technology and business that will provide students with the necessary skills to succeed in a rapidly changing world beyond their high school experience.
The unique blend of courses allows students the opportunity to take coursework in business and technology. Cutting edge computer courses range from computer applications through computer programming including automated accounting, Internet, multimedia, web design, and computer repair. Innovative business courses integrate technology with traditional business theory. The opportunity exists for students to gain college credits through its Tech Prep and Advanced Placement Courses. The Academic Internship Program allows students to acquire a practical co-op experience while earning a high school degree. All courses are designed to provide an experience that prepares the student with technical proficiency and a sound knowledge foundation.
The courses are intended to expose students to real-world situations while encouraging them to question and analyze their own knowledge base. The curriculum helps to prepare students to utilize technology while strengthening skills necessary to become a leader in the school and community.

The following flow chart illustrates the sequencing of courses within the department. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.


## Business Education Department Course Descriptions

## Academic Internship Program Credits: $\mathbf{7 . 5}$ or 15 <br> Grade 12

The Academic Internship Program is a senior-level program designed for the student who wants to gain valuable work experience in a business environment. This program is designed to provide on-the-job training in an office-related occupation that corresponds with a student's career objective. This is a unique program that capitalizes on a high level of student motivation and gives the student the opportunity to "learn by doing." Students are to report to work placements for the final two periods of the day. In addition to the afternoon work experience, students will attend a related class in the morning to further develop their office skills and obtain guidance in adjusting from the school environment to the world of work.

## Accounting I <br> Credits: 5

Grades 9, 10, 11, 12
This subject is the introductory course of a recommended two-year sequence, which will introduce students to the basic principles, concepts, and procedures of accounting, including computerized accounting. Students will go through the entire accounting cycle from analyzing and recording transactions to preparing financial statements. The emphasis will be placed on accounting procedures for a proprietorship form of business organization. Accounting career opportunities will be explored. Note: This class is eligible for college credit at Raritan Valley Community College under the Tech Prep Program.

## Accounting II

Credits: 5

## Grades 10, 11, 12

Prerequisite - Accounting I
This is the second course of a recommended two-year sequence. The emphasis will be placed on accounting procedures and concepts as they apply to proprietorship, partnerships, and corporations. Also, students will learn to interpret and analyze financial reports. The computer will be used to perform accounting functions throughout the course and career opportunities in the accounting field will be explored for entry-level employment or further study. Note: This class is eligible for college credit at Raritan Valley Community College under the Tech Prep Program.

## Advanced Placement Macroeconomics

 Credits: 5
## Grades 11, 12

Prerequisite - Eligibility is based upon final grades earned in both English and Mathematics courses. Grades of "B-" or higher must be earned in AP/Honors English/Mathematics level courses or "A-" or higher in Academic level English/Mathematics courses.
The purpose of this AP course is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The curriculum places particular emphasis on the study of national income and price determination and also develops students' familiarity with economic performance measures, economic growth, and international economics. Coverage of these concepts provides students with the foundation for a thorough understanding of macroeconomics in a global context.

## Advanced Placement Microeconomics Credits: 5

## Grades 11, 12

Prerequisite - Eligibility is based upon final grades earned in both English and Mathematics courses. Grades of "B-" or higher must be earned in AP/Honors English/Mathematics level courses or "A-" or higher in Academic level English/Mathematics courses.
This college level course is an in-depth study of how individuals, firms, and organizational structures make economic decisions. Areas of study will include the following: demand and supply analysis, allocation of goods, services, and factors of productivity, and the distribution of goods and services throughout the economy. Students will evaluate the strengths and weaknesses of economic decision-makers by employing concepts of efficiency and equity. Throughout the course, learning emphasis is placed on reasoned, logical argument using economics as a method and model for decision-making.

## Introduction to Business

$\qquad$ Credits: 2.5

## Grades 9, 10, 11, 12

This course is designed to introduce students to the world of business and what they need to know in order to succeed in everyday life. Some of the topics to be covered include business organization structures, money and banking, insurance, investments, and consumer knowledge. Also, students will have an opportunity to review career possibilities available in the business world, and they will be given a basic understanding needed as they pursue advanced courses in business.

## Business Law

## Credits: 2.5

## Grades 10, 11, 12

This course provides an introduction to the American system of law as it relates to the business world. The initial portion of business law is devoted to contracts, which represent the way one conducts business activities such as acquiring, using, transferring, and disposing of property - real and personal. Moreover, students will develop a legal vocabulary that helps them to think more analytically and critically and function more confidently in business and college. Some interesting and thought provoking topics include: Consumer Protection, Employment Law, Criminal Law, and The Law of Torts.

## Career Exploration and Awareness <br> Grades 9, 10, 11, 12

 Credits: 2.5This course is designed to be taken by freshmen and sophomores to aid them in planning for future careers, education, and employment trends. In addition, this course will delve into the area of business ethics and the development of decision-making and problem-solving methods. The development of this course is in direct correspondence with the New Jersey Cross-Content Workplace Readiness Curriculum Standards. Guest speakers serve as mentors to students as they help to explain their careers and skills needed in the workplace. Development of a career portfolio and participation in a mock interview are requirements of this class.

## Grades 10, 11, 12

This course will provide students the opportunity to learn the fundamentals of financial accounting, much like first semester of college accounting. It will be devoted principally to the proprietorship form of organization. Emphasis will be on the theory and abstract analysis of transactions rather than on recording techniques. The accounting cycle functions will be mastered, and you will use the computer to perform all of these functions. In addition, emphasis will be placed on the importance of automated accounting programs in the accounting field.

## Computer Applications <br> Grades 9, 10, 11, 12

## Credits: 2.5

This course will give students an opportunity to survey applications of the computer in the areas of spreadsheets/graphics, database, telecommunications, etc. The main thrust of the course will be "hands on" experiences in developing simple spreadsheets and databases that will pertain to student needs. Students will have the opportunity to learn to use the Internet safely and effectively for research and information retrieval.

## Computer Repair and Technical Support I Credits: 2.5

## Grades 9, 10, 11, 12

This hands on PC repair course familiarizes students with standard PC hardware and software systems. Students dismantle and reassemble a PC, learning about industry standard hardware systems and components. Students will also be introduced to and practice standard PC support techniques with special regard to personal safety and system reliability. Diagnosis and resolution of common hardware failures and configuration/compatibility issues is stressed and students are given hands-on practice using proven troubleshooting techniques to solve problems.

## Computer Repair and Technical Support II Grades 9, 10, 11, 12 <br> Prerequisite - Computer Applications and Technical Support I

This hands-on course builds on the knowledge acquired in Computer Repair and Technical Support I and provides an advanced understanding of hardware, networks, and operating systems in a PC environment. Diagnosis and resolution of common software failures are stressed and students are given hands-on practice using proven troubleshooting techniques to solve problems. Participants learn to install, configure, upgrade, and repair an operating system with particular focus on managing the software configuration of the system. Students will also explore the career of the PC technician and opportunities in this field.

## Desktop Publishing <br> Credits: $\mathbf{2 . 5}$

Grades 9, 10, 11, 12
Publishing is all around us; in print and on the internet. Design is everywhere; on clothing, accessories, equipment, playbills, company logos, and websites. This course challenges students to utilize creativity, critical thinking skills, and persuasive writing to create professional work that has the potential for many real world applications. This course uses Adobe In Design, and students maintain an electronic portfolio to document their success. Students who are interested in Yearbook, journalism, marketing, advertising or art are encouraged to enroll.

## Financial Planning. <br> Credits: 2.5

## Grades 11, 12

This course will provide students with information important in managing their personal finances. Students will learn how to evaluate the risks involved in making financial decisions and how to develop and implement a financial plan. How to use credit wisely and how to get the most out of one's income will be covered. The fundamentals of investing in stocks, bonds, mutual funds, real estate, and collectibles will be reviewed, and students will be made aware of the deceptions and frauds in the market place and how to avoid them.

## International Business <br> Credits: 2.5

Grades 9, 10, 11, 12
This course will provide students with the foundation necessary to understand international business and the various aspects of conducting business in a global economy. It will aid students in gaining an understanding about the customs of people from different geographic, cultural, racial, and ethnic backgrounds of the world. Students will study the technological advances of the Internet and e-commerce to provide goods and services worldwide. This course prepares students to work, live, and think in a global environment.

## Introduction to Marketing

 Credits: 2.5
## Grades 9, 10, 11, 12

Prerequisite - None (Suggested: Introduction to Business)
This course design is for students interested in learning about selling skills and the marketing principles that drive our economic system. Students will be introduced to the concepts, analyses, and activities that comprise marketing management through the practice of assessing and solving marketing problems. The curriculum is delivered through a hands-on approach in which the students operate an online business. Team work and communication are an integral part of the class. The course prepares students to work, live, and think in a global economy.

## Keyboarding

$\qquad$ Credits: 2.5
Grades 9, 10, 11, 12
This course is an introductory course in which correct computer keyboarding techniques are taught and emphasized using the computer. The proofreading, keyboarding, formatting and computer skills required to be proficient at word processing will be stressed. Note: This class is eligible for college credit at Raritan Valley Community College under the Tech Prep Program.

## Multimedia Technology \& Business Presentations.................................. Credits: 2.5 Grades 9, 10, 11, 12

Multimedia enhances the way people think, work, learn, communicate, and even the way they interact. This course is designed to give students a comprehensive understanding of multimedia applications and the power of effectively communicated ideas and information.

## Notetaking \& Study Skills

Credits: 2.5

## Grades 9, 10, 11, 12

This course is designed to teach students organization skills and strategies that will contribute to academic success in their major courses. Students will learn the process and procedures of rapid and efficient note taking. In addition, this course will help students to improve their writing, method of studying, analyzing material heard or read, and organizing usable notes for report and test preparation. Students' notetaking skills will be helpful to them as they continue their high school or advanced education.

## Photo Editing and Web Design

Credits: 2.5

## Grades 9, 10, 11, 12

Photo Editing and Web Design will introduce students to the technology needed to edit photographs and create websites. Students will create various "hands-on" projects in a variety of genres and will learn to take ideas and see them through to the finished product. Students will learn to work cooperatively in a group setting as well as work individually. Emphasis will be place on goal setting and attainment.

## Photo Editing For Business

Credits: 2.5

## Grades 9, 10, 11, 12

Prerequisite - Photo Editing and Web Design or CAD Technologies I
This course builds on the foundation learned in Photo Editing and Web Design. It will focus on teaching students to create and/or modify images, text, and other items needed to produce an effective print advertisement. The course will cover concepts such as taking digital photographs, importing them into a computer, and altering them in order to improve quality and remove any imperfections. These photo enhancing techniques will be taught through an advertising-based curriculum. The goal of image enrichment will be to stimulate an audience through advertising.

## Programming for Business

 Credits: 2.5
## Grades 9, 10, 11, 12

This course will use object-oriented programming languages to solve business and consumer related problems. Emphasis is placed upon finding creative solutions to simulated problems in "real-world" situations. Students will develop a computer/programming vocabulary that will be a valuable tool for this technological age in which we live.

Programming for Business II $\qquad$ Credits: 2.5

## Grades 9, 10, 11, 12

Prerequisite - Programming for Business
This course builds on the learning that began in Programming for Business. This course is a must for students who want to gain a working knowledge of computer programming in an object-oriented environment. A majority of the course time is spent working independently or in groups designing, developing, implementing, and trouble-shooting complex windows applications similar to those being used in our society today.

## FAMILY AND CONSUMER SCIENCES

Supervisor: Dr. Leonard Herman - 908-231-8660 ext. 2263

It is the philosophy of the Family and Consumer Science Department to prepare our students with the necessary skills to succeed in the world in which they live. Our courses place an emphasis on problem solving, and critical thinking and provide an outlet for individualized creative expression. The development of career awareness, constructive criticism, and communication skills is strongly emphasized throughout each course. The curriculum includes the integration of technology, time management, and interpersonal skills. Students are required to learn to work in groups with students from a variety of socioeconomic and culturally diverse backgrounds.

Originality and artistic expression are crucial elements for the success of students within the department and beyond their high school experience. Students explore their creative interests through the exploration of culture, design, and creation and through presentation of original work, aesthetics, and analysis. The foundation of artistic understanding provides students with a unique perspective which allows them to view their world differently. The Family and Consumer Science Department offers the student a wide range of courses that will enhance their lives and further prepare them for the $21^{\text {st }}$ century.

The following flow chart illustrates the sequencing of courses within the department. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.


## Family and Consumer Sciences Department Course Descriptions

## Applied Culinary Arts I.

Credits: 2.5
Grades 9, 10, 11, 12
Prerequisite - Introduction to Culinary Arts
Students delve deeper into their exploration of the components of the culinary arts developed in Introduction to Culinary Arts. Stronger emphasis is placed on creation, design, presentation, and analysis. Through food preparation, students will take a regional tour of the United States, stressing the fundamentals of the historical, cultura, and aesthetic diversity of American regional cooking. This course allows students more freedom to develop their own creative interest.

## Applied Culinary Arts II

$\qquad$ Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Introduction to Culinary Arts \& Applied Culinary Arts I
This course is designed for students who have a special interest in foods and the culinary arts. Students will become familiar with various ethnic backgrounds and their respective cuisines with emphasis on history, culture, and aesthetic diversity of the countries studied. Emphasis will be given to originality and artistic expression in the preparation of food. This course provides the students with a more individualized experience to explore the diversity of food as a creative outlet.

## The Art of Applied Nutrition

 Credits: 2.5
## Grades 9, 10, 11, 12

Prerequisite - Introduction to Culinary Arts
This course is designed to take culinary arts to a whole new, creative level. The curriculum explores nutrition by evaluating, cooking, and tasting recipes. Emphasis is placed on the fundamentals of nutrition and stresses the function of the essential nutrients. The importance of a well-balanced diet is also a vital part of this course. Low sodium, low fat, low calorie, and vegetarian cooking will be addressed, and recipes will be tested. Discover the fact that healthy eating can be desirable and delicious.

## Family and Child I

## Credits: 2.5

## Grades 11, 12

For students who are interested in working with children, this course will explore the place of the family and child in society. Childhood behavior patterns and needs of the two- to six-year-old are studied. Experiences include setting up preschool with special attention on health and safety, creative activities, and childhood routines. This will provide an opportunity for a student to observe the behavior of children in an actual preschool setting. Research projects supplement teaching experiences developed and conducted in the Family and Consumer Science classroom.

## Family and Child II

Credits: 2.5

## Grade 12 or Spring Semester Grade 11

## Prerequisite - Family and Child I

This course is designed for the student sincerely interested in working with preschool children, especially those students who may pursue a career in Early Childhood and Elementary Education. The course focuses on normal growth and development of the preschool child by conducting a preschool in the classroom. Particular attention will be given to more specific Early Childhood curriculum development for use in the preschool classroom setting.

Family and Consumer Sciences

## Credits: 2.5

## Grades 9, 10, 11, 12

Family and Consumer Sciences is a semester course offered to students in grades $9-12$. This is a survey course in which the student is given an opportunity to briefly explore three main areas of Family and Consumer Sciences. These areas include: Foods and Nutrition, Clothing, and Child Development.

## Fashion Design I

Credits: 2.5
Grades 9, 10, 11, 12
This is an introductory course that will allow students to explore their interests and talents in clothing construction. It is a hands-on learning environment that encourages peer planning and collaboration and creative thinking. By planning and constructing articles of clothing, the student is given an opportunity to develop personal skills in the selection of fabrics and trims, to suit their personal preferences, personality, and budget. An integral part of this course is a construction of individual garments/projects that will develop an awareness of equipment use, terminology, pattern labeling and directions, and a familiarity with a wide selection of fabrics and construction techniques. Career opportunities will also be explored.

## Fashion Design II

## Credits: 2.5

Grades 9, 10, 11, 12
Prerequisite - Fashion Design I
This course enhances the knowledge acquired in Fashion Design I and allows the students to explore their interests, creativity, and talents in clothing construction. Students will apply sewing skills and techniques in designing and constructing clothing for themselves, family members, or home projects. The use of unique and challenging fabric types and designs will be emphasized as well as pattern alterations. In addition to the required projects, students will be asked to create an aesthetically appealing garment/project from an old garment/household item and to submit a needlework design.

Fashion Design III*
Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Fashion Design I and Fashion Design II
This course is an advanced class which utilizes sewing techniques learned in prerequisite courses. Students will create new original fashion designs by altering existing patterns or combining two or more patterns. This class will give students the opportunity to use a computerized embroidery machine to enhance and personalize their projects. This course will lay a strong foundation for continued independent construction, altering, and creativity of future garments and projects. It is a must for students who are considering pursuing a career in the fashion industry.

Introduction to Culinary Arts Credits: 2.5
Grades 9, 10, 11, 12
This course is an orientation to the culinary arts curriculum and objectives. The student will be introduced to the basic components of the culinary arts, such as preparation, presentation and product analysis. Emphasis on the use, care, identification of tools and equipment along with recipe interpretation will be explored. Frequent cooking experiences are a major component, combined with safety, sanitation, evaluation and decision making to create the knowledge base necessary for success in the higher level culinary arts courses.
Note: This course is a prerequisite for all culinary courses.
Space and Design * $\qquad$ Credits: 2.5

## Grades 11, 12

This course introduces students to the basic components of residential house design, including space planning, aesthetics, presentation, and analysis. This course of study demonstrates how homes are more than buildings; they are a reflection of our lives. The course provides students with an historical survey of American housing and with practical information about planning, building, and decorating a home to enhance its use for today's living, working, relaxing, and entertaining. Principles of good design are applied to the structure as a whole, to individual rooms, and to the surrounding landscape. Using architectural scale and building code specifications, students will design, plan, and construct an American-style home. It also offers opportunities for creativity in the design of furniture, textile selection, and the coordination and design of windows and doors. Discussions will include the wide range of jobs in the housing field, as well as the ways in which professionals in the field present their ideas. Selected texts, community resources, and projects are used to introduce ideas. Research and in-home experiences reinforce class work.

## Today's Living

 Credits: 5Grade 12
Aimed at all seniors, this course offers opportunities to consider the changing social trends and roles of men and women. Examination is made of the life cycle through such topics as personality development, human relationships, flexibility, communication, and respect for human values. Practical experiences are offered in management of family resources in today's current environment. Emphasis is on consumer awareness in money management. Textbooks, magazines, newspapers, and community resources are used.

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## Fine Arts

Supervisor: Dr. Leonard Herman - 908-231-8660 ext. 2263
The following flow chart illustrates the sequencing of courses within the department. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.


Fine Arts Department Course Descriptions
Advanced Placement Studio Art Credits: 5
Grade 12
Prerequisites - Students will be selected for admission to AP Studio Art based on the following criteria:

- Successful completion of Advanced Art III and /or presentation of a portfolio demonstrating advanced 2dimensional works, with a " $B$ " average maintained in prior art studio coursework.
- Recommendation of Visual Arts Staff following portfolio review.
- Demonstrated high level of problem solving using the Principles and Elements of Art / Design within the portfolio of work.

AP Studio Art is designed for students who are seriously interested in a challenging practical experience of making art. It is not based on an examination; instead, students submit portfolios to the CollegeBoard in May for evaluation, along with a written statement describing their work. This course will provide the equivalent of a college-level studio art course with substantial portfolio requirements relative to breadth, quality, and volume of work. It is strongly recommended students also apply for Independent Study to provide the time needed to produce and assemble the AP portfolio as well as to generate additional work to comply with the individual requirements of the schools to which they may be applying. Summer assignment required.

## Grades ${ }^{*} 10,11,12$

Prerequisites-Students will be selected for admission to AP Art History based on the following criteria:

- grades in prior English and History courses
- Art, English, and/or History teacher recommendations
- one year of Art History is highly recommended
* Open to: Grades 11 and 12, Grade 10 with successful completion of Art History Academic

Advanced Placement Art History is designed to give students an understanding of architecture, sculpture, painting, and other art forms within historical and cultural contexts. Students examine major forms in a variety of cultures from ancient to modern times, learning to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. Students who have done well in studies such as history, literature, and advanced art are encouraged to enroll. This course requires strong writing skills and a high degree of commitment to academic work. Students are encouraged to take the AP examination in May. There is no prerequisite for students in grades 11 or 12, but Art History (Academic) is a pre-requisite for $10^{\text {th }}$ grade students and strongly recommended if the student has no prior AP course experience.

## Summer assignment required.

## Art History

## Credits: 5

## Grades 9, 10, 11, 12

From the earliest times people have felt the need to make art. All of us inherit the objects that earlier people and cultures have created through the richness of painting, sculpture, architecture, and other visual art. We will study why people felt the need to make these objects and why art is still made today. By learning to interpret these objects, we will examine what they can tell us - about meaning and about ourselves. Art History spans the human experience from the dawn of history through modern times. Students with an interest in people, history, art, or literature will find the study of Art History stimulating and enjoyable. Note: Art History is not a "studio" course in which students make art.

## Art 1

$\qquad$ Credits: 5
Grades 9, 10, 11, 12
Open to all interested students, this full year class provides a general understanding of the elements and principles of design and how they are used in the art making process to build a foundation for more advanced art study. Students will study a wide range of two-dimensional and three-dimensional art, including drawing, painting, sculpture, print making and art history. The variety of art media, techniques, and concepts prepare students for more advanced study. Required: successfully maintain homework assignments in sketchbook or journal.

## Art II

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## Grades 10, 11, 12

Prerequisite - Art I
For the serious art student, this course offers more advanced study in the art making process, further utilizing the elements and principles of design introduced in Art 1. Students are expected to build upon that prior knowledge to produce more advanced work. Successful fulfillment of this course provides students the opportunity to apply for the Art III Honors class. Required: maintain weekly homework assignments in sketchbook and project work done outside of class.

## Art III

$\qquad$ Credits: 5

## Grades 11, 12

Prerequisites - Art II and recommendation.
Offers the opportunity for advanced students to explore and develop their own individual expression and style. Emphasis will be on the development of a well-rounded portfolio that demonstrates self-expression, analytical problem solving, critical analysis, technical achievement and a mature approach to using the elements and principles of design to communicate meaning. Required: maintain weekly homework assignments in sketchbook and project work done outside of class.

## Art III (Honors)

Credits: 5

## Grades 11, 12

Prerequisites - Art II and recommendation of the visual art staff following portfolio review
Art III-Honors is open to highly motivated students demonstrating exceptional ability, interest, and dedication to the study and production of art. Assignments and projects focus on all aspects of painting, drawing, and design, utilizing a wide range of materials and styles. Emphasis will be on the development of personal style and a well-rounded portfolio that demonstrates self-expression, analytical problem solving, critical analysis, technical achievement, and a mature approach to using the Elements and Principles of Design to purposely and effectively communicate meaning. Admission is by portfolio review; a pre-course summer assignment is required. In addition to required projects and homework assignments, students will be encouraged to pursue individual projects of interest under the guidance of the teacher.

## Summer assignment required.

## Art IV

$\qquad$
Grade 12
Prerequisites - Art III and recommendation of the visual art staff following portfolio review
Open to motivated students seeking to develop a high level of technical and creative skills, a broader knowledge of tools and materials, and advanced problem solving techniques. Emphasis will be on completing a well-rounded portfolio demonstrating self-expression, analytical problem solving, technical achievement, and a mature approach to using the Elements and Principles of Design to purposely and effectively communicate meaning. Required: maintain weekly homework assignments in sketchbook and project work done outside of class.

## Art IV (Honors) ...................................................................................... Credits: 5

## Grades 11, 12

Prerequisite - Art III, appropriate elective(s), a juried portfolio review, and permission of the instructor.
Intended to be an outlet for an unusually strong artistic ability in a specific art field, this course will provide you with a significant opportunity to gain extensive experiences that are satisfying to your talent and interests. Emphasis is on the freedom to respond as an individual and to develop independently from the group through the guidance and assistance of the instructor. The presentation of a portfolio or a one-person art show is a desirable goal. Summer assignment required.

## Ceramics I

Credits: 2.5

## Grades 9, 10, 11, 12

Methods and processes of forming with clay will be presented along with direct experiences in using the potter's wheel. Emphasis upon the study of form, color, and texture is balanced with concern of the technical aspects of the ceramic arts including glaze composition and firing procedures. Students of above average ability and talent in ceramics may be permitted to take another semester of Advanced Ceramics.

## Ceramics II

Credits: 2.5

## Grades 9, 10, 11, 12

Prerequisite - Ceramics I
This course is the intermediate level ceramics course for students who have taken Ceramics and wish to pursue this specialized area of study, advancing their knowledge and skills. Students will solve classical ceramic design and production problems including wheel thrown and hand built forms. Work on the potter's wheel will center upon cylinders and bowls while hand built work will focus upon complex forms and innovative design. Glaze work and more in-depth studies of ceramic materials and processes are also covered.

## Ceramics III

Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Ceramics II and recommendation of the visual art staff following portfolio review
Ceramics III offers the opportunity for advanced studio art studies focusing on all aspects of ceramic design and production utilizing a wide range of materials and styles. Emphasis will be on the development of a well-rounded portfolio that demonstrates self-expression, analytical problem solving, critical analysis, technical achievement, and a mature approach to using the Elements and Principles of Design to purposely and effectively communicate meaning. In addition to required projects, students will be encouraged to pursue individual projects of interest under the guidance of the teacher.

## Ceramics IV

 Credits: 2.5
## Grades 10, 11, 12

Prerequisite - Ceramics III and recommendation of the visual art staff following portfolio review
Ceramics IV offers students advanced studio art studies focusing on all aspects of ceramic techniques, design and production. Students will learn advanced techniques that enable them to control the materials and processes of ceramics and resolve design issues related to the properties of fired clay and glazes. Emphasis will be on developing a wellrounded portfolio that demonstrates self-expression, analytical problem solving, critical analysis, technical achievement, and a mature approach to effectively communicating meaning.

## Crafts I

## Credits: 2.5

## Grades 9, 10, 11, 12

Crafts I is a one-semester introductory course for students interested in exploring traditional techniques of crafts across world cultures. Projects may include mediums such as collage, mixed-media, fibers, paper construction, sculpture, jewelry, and ceramics.

## Crafts II

$\qquad$ Credits: 2.5

## Grades 9, 10, 11, 12

Prerequisite - Art I or Crafts I
Crafts II will further develop techniques, materials and methods introduced in Crafts I. There will be greater emphasis on developing individual aesthetics and demonstrating more sophisticated use of applying elements and principles of art and design. Projects will be more advanced in scope and materials with greater emphasis placed on higher level creative problem solving skills. Projects may include metals, fibers, paper construction, jewelry, sculpture, and ceramics.

## Cultural Ceramics

## Credits: 2.5 in Art or Social Studies

## Grades 9, 10, 11, 12

All societies depend upon the earth for survival. By carefully using earthen materials to express themselves and the beliefs of their culture, people worldwide and throughout time have created ceramics. Students in Cultural Ceramics investigate the values and beliefs of one culture by discovering and interpreting its art and works in clay. In a personal way, students then explain the work of the other culture and express themselves by creating ceramic objects. Students declare for credit in art or social studies and follow appropriate course requirements. Cultural Ceramics may be taken as many as four times.

## Design

## Credits: 2.5

Grades 10, 11, 12
Prerequisite - Art I
This course uses a variety of media to complete hands-on activities exploring the arrangement of line, color, shape, form, value, and texture in both 2-dimensional and 3-dimensional design. Projects may include poster design, textile pattern design, relief design, etc. Design may be taken more than once for additional credit.

## Digital Fine Arts I

Credits: 2.5

## Grades 9, 10, 11, 12

This course will enable students to understand the link between Technology, Science, and Contemporary Fine arts. Providing student with the tools of Photoshop and Adobe Illustrator, this course is designed to expand the traditional knowledge of Fine Art, Art History, and Design. It will also allow the students to prepare a professional 2D portfolio for the college application process and various career opportunities as well as vocational options within the field of visual communications.

## Painting and Drawing

Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Art I
Designed as an in-depth approach to drawing and painting skills, the course will provide you with experiences in the development of realistic and abstract art concepts. The means of expression are interchanged to relate line, form and composition with the problems in translating the techniques of pencil, ink, water color, oils, and acrylics into artistic results.

## Sculpture

## Grades 10, 11, 12

Prerequisite - Art I
Sculptural materials and techniques are stressed as they relate to ideas and concepts of interpretive forms as well as to human natural forms. The challenges involved in using materials such as plastic, wood, and plaster are intended to help you develop a more personal and creative rather than mechanical understanding of this fine art. Sculpture may be taken more than once for additional credit.

## Industrial Technology

Supervisor: Dr. Leonard Herman - 908-231-8660 ext. 2263
The Industrial Technology Department recognizes that citizens of the 21st Century need to possess a variety of diverse skills. Therefore, our students need to be exposed to and develop skills in the areas of communications, design, career awareness, leadership and artistic expression. This knowledge is then applied, adapted, and utilized further to encourage students to develop vital life-long learning skills. To achieve this, our courses support the development of critical thinking skills, problem solving abilities, information gathering and analysis, cooperative learning, and aesthetic awareness.

Students who go through the Industrial Technology program will be better prepared to meet life and career goals in our rapidly changing technological world. As a result of the exposure to courses and curriculum, our students will gain an understanding of the necessary balance of form versus function. It is the philosophy of the Industrial Technology Department to create an atmosphere in which the student is encouraged to explore creativity, design, analysis, aesthetics, and physical abilities. Students are then challenged through the curriculum to transfer those talents to the world they enter upon graduation.

The following flow chart illustrates the sequencing of courses within the department. Students are encouraged to read specific course descriptions prior to selection, taking note of prerequisite and recommendation requirements.


## Industrial Education Department Course Descriptions

## Computer Aided Design Technology I

 Credits: 5
## Grades 9, 10, 11, 12

This is the first in a series of computer graphics design courses. Its intent is to explore different facets of graphic design over the course of the year. AutoCAD will be used to cover traditional drafting practices in both Mechanical Drawings and Architectural Design. Photoshop and Dreamweaver will be used during the latter half of the course to allow students to work in traditional media such as digital photos and typography. Websites will also be developed using good design practices and industry standard software.

## Computer Aided Design Technology II * <br> $\qquad$ Credits: 5 <br> Grades 10, 11, 12

Prerequisite - Computer Aided Design Technology I
This course is a sophisticated computer graphics design course intended to explore highly advanced techniques, utilizing powerful industry-standard Vector and Raster editing tools. These are the same tools that professional designers utilize to produce publishable quality graphics for the web and print. The course will be presented through a series of "hands-on" learning activities where learning will take place on a progress-as-you-learn basis. Individual design portfolios will be encouraged during the second half of the school calendar.

* There may be advanced independent study sections in this class for those students who have done well and wish to continue with the permission of the instructors.


## Electronics

$\qquad$ Credits: 5

## Grades 10, 11, 12

Prerequisite - Introduction to Electronics
This course is intended to acquaint students with basic theories and concepts of electronics and the technical applications of electronics. Through practical laboratory work, this course will provide fundamental instruction for many areas of applied electronics. Primary consideration will be given to AC and DC circuits, semiconductors, amplifiers, rectifiers, basic oscillator circuits, instruments, basic radio fundamentals, and special circuits.

## Engineering Computer Graphics I <br> Credits: 5 <br> Grades 10, 11, 12

This course is the first in a series of computer graphics courses designed for the student interested in obtaining a knowledge base in Engineering and Engineering Graphics. Students will gain the understanding necessary for career development in Engineering as well as advanced techniques in the use of CAD and machine design and graphic representation. Many different varieties of pictorial drawing will be explored including but not limited to: Orthographic, Isometric, Section Views, Perspective, and Oblique drawings. 3D design will also be explored through surface developments and the introduction of 3D modeling software. Students may use the freely available Blender package to create stunning 3D visuals of their 2D designs. Modeled scenes may also be animated and rendered at any size or quality level to produce 3D movies.

## Engineering Computer Graphics II * Grades 11, 12

$\qquad$ Credits: 5

Prerequisite - Engineering Computer Graphics I
This course is the second in a series of engineering graphics courses designed for the student that is pursuing a career in Engineering or Engineering Graphics. The courses focus on developing graphic solutions, utilizing advanced techniques in CAD, to design problems in the various fields of engineering (mechanical, electrical, civil, pneumatic, and hydraulic). Student will further hone their presentation skills and marketability through the development of a portfolio of work and presentations.

## Fundamentals of Automated Design

## Credits: 2.5

## Grades 9, 10, 11, 12

This course is the first in a series of graphic courses designed to explore the world of technical graphics. The primary software that will be utilized in this course is CAD. The specific areas of course explorations are: template drawings, multiview drawings, and common dimensioning practices. The students will obtain a working knowledge of CAD, which will enable them to successfully participate in the advanced computer graphics curriculum. Students will also gain a basic understanding of 3D modeling and animation using a free software package called Blender. Students will be able to construct and animate 3D models and add color, texture, light, shadows, camera angles, and special effects.

## Home Improvement

## Grades 9, 10, 11, 12

Enrollment: Due to space constrictions at the high school, enrollment may be limited in this course. Students will be priority scheduled in the order of $12^{\text {th }}$ grade to $9^{\text {th }}$ grade

This course is designed to teach students how to complete various household repairs while raising their social and global awareness. During the year, students will work on the "See the Difference One Container Can Make" project which reconfigures a recycled shipping container into a fully functional medical clinic or other facility for hundreds of impoverished orphans living in Uganda. Through this experience, the students will learn the skills necessary to make various household improvements in the areas of carpentry, plumbing, electrical, landscaping, decorating, and other "do-ityourself" projects. This course uses a hands-on approach to completing the curricular projects.

## Introduction to Electronics

$\qquad$ Credits: 5

## Grades 9, 10, 11, 12

This course will investigate the fundamentals of electrical principles through activities in the areas of magnetism, light heat, elementary electronics, house wiring, and printed circuits. Emphasis is placed on fundamental theory, tools, materials, maintenance of equipment, use and control of power, meters, computation and testing. (Algebra I recommended.)

* There may be advanced independent study sections in this class for those students who have done well and wish to continue with the permission of the instructors.


## Media Communications I

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Credits: 2.5
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## Grades 9, 10, 11, 12

This course is designed so students can develop a working knowledge of the available technology to enable them to create video presentations in various genres. Students will gain experience in use of digital media, equipment, lighting, audio, and non-linear video editing.

## Media Communications II <br> Credits: 2.5

Grades 9, 10, 11, 12
Prerequisite - Media Communications I
This course builds on the knowledge acquired in Media Communications I and incorporates the skills necessary to complete larger scale productions from start to finish. It will provide students with a hands-on opportunity to use studio equipment and to work with other students in a team approach in creating specific projects.

## Media Communications III Credits: 2.5

## Grades 10, 11, 12

Prerequisite - Media Communications II
Students will master many of the robust features of advanced editing software. Students will learn how to integrate Final Cut Pro 5, Motion, Soundtrack Pro, and DVD Studio Pro 4 into video presentations.

## Media Communications IV

## Grades 10, 11, 12

Prerequisite - Media Communications III
Students enrolled in this course will use skills from Media Communications I, II, and III to develop high quality, full length video programs for public information broadcasting on cable television. The course will emphasize use of video and video editing technology. Strong teamwork and a strict adherence to deadlines to meet broadcast schedules are necessary elements for success. Disciplined and independent self-starters will prosper in this course.

## Video Production Seminar

$\qquad$ Credits: 2.5

## Grades 11, 12

Prerequisite - Media Communications IV
Students in this seminar course will continue to use skills and available technology in the BRTV studios to explore the more creative nature of digital media. This course is best suited to self-motivated students who work well in small teams. Students will direct and edit their own productions in addition to working on production teams for other student projects.

## Wood Design and Fabrication I

 Credits: 5
## Grades 9, 10, 11, 12

This course will introduce the student to the principles of form and function in relation to design, creation, fabrication and critical analysis of wood projects. The will explore their artistic abilities through the design and construction of a variety of projects based on established criteria. Personal choice projects will be adapted to meet the needs, interests, abilities and creative expression of the student.

Wood Design and Fabrication II Credits: 5 Grades 10, 11, 12<br>Prerequisite - Wood Design and Fabrication I

This course delves more deeply into the principles of form and function started in Wood Design and Fabrication I. This course explores the methods and process of creating a work in wood as it relates to creative expression. An in-depth study of the intricacies of cabinet making and woodturning will be explored in this course.

Wood Design and Fabrication III * $\qquad$ Credits: 5
Grades 11, 12
Prerequisite - Wood Design and Fabrication I \& II
The emphasis of the course will be placed on the design, planning, development, and presentation of wood projects. This course is specifically centered on the individual interest of the students. A historical perspective of design and style is developed in order for a student to express his/her creative interests through the creation of various pieces of furniture. Critical analysis skills are developed in order for students to self-evaluate work and improve its form and function.

* There may be advanced independent study sections in this class for those students who have done well and wish to continue with the permission of the instructors.


## Other

Teacher's Aide
Grade 12
Credits: 5 to 10
Students may pursue the Teacher's Aide Program as a full year (10 credits) or semester (five credits) offering by working as teacher aides in the Primary or Intermediate schools of the Bridgewater-Raritan School District. This affords the seniors the opportunity to gain insights into teaching as a professional career. The minimum requirement is that students must remain at their assigned school until the end of the BRHS day. Applications are available in the School Counseling Office and must be approved by student, parent and various school community members. Students must hand in a signed student agreement and student placement contract before the last full day of classes, prior to the start of the final exam period in June to be permitted to participate in the program. No exceptions will be made.


## BRIDGEWATER-RARITAN HIGH SCHOOL CREDIT AND COURSE REQUIREMENTS FOR GRADUATION

Student Name: $\qquad$

English
Math
Science
Social Studies
Visual/Perform Arts
$21^{\text {st }}$ Century Skills
Financial Literacy
PE/Health
World Language
Electives
$\qquad$ 2 $\qquad$ 3 $\qquad$ 4 $\qquad$

1 $\qquad$ 2 $\qquad$ 3 $\qquad$
Bio $\qquad$ 2 $\qquad$ 3 $\qquad$ World Civ II $\qquad$ US I $\qquad$ US II $\qquad$
1 $\qquad$

2 $\qquad$ (Total $=5$ credits)

1 $\qquad$ 2 $\qquad$ (Total $=5$ credits)

1 $\qquad$ (Total $=2.5$ credits)
$\qquad$ $10^{\text {th }}$ $\qquad$ $11^{\text {th }}$ $\qquad$ $12^{\text {th }}$ $\qquad$

Credits completed towards graduation
$9^{\text {th }}$ $\qquad$ $10^{\text {th }}$ $\qquad$ $11^{\text {th }}$ $\qquad$
Minimum credits needed for promotion: $\quad 9^{\text {th }}=30$
$10^{\text {th }}=60$
$11^{\text {th }}=90$
Total credits needed for graduation $=120$
Scheduling Worksheet

| Period | Fall |  |
| :---: | :---: | :---: |
| $\mathbf{1}$ |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |


[^0]:    *Descriptions are obtained from the CollegeBoard website

[^1]:    *Descriptions are obtained from the CollegeBoard and ACT websites

[^2]:    * There may be advanced independent study sections in these classes for those students who have done well and wish to continue with the permission of the instructors.

