WE BELIEVE . . .

- That learning is a lifelong process.
- That the school community has the right to a safe, supportive environment in a well-maintained facility.
- That all students will reach an exemplary level of achievement by setting high expectations and through active participation in their own learning.
- That parents/guardians must be actively engaged in their children’s education.
- That the Board of Education, administration, staff, and parents are collectively responsible for the academic, social, and emotional growth of the students.
- That the community plays a significant role in supporting and reinforcing the educational process.

**Mission Statement:**
To build a community of empowered learners who value Perseverance, Respect, Integrity, Diversity, and Excellence. RV P. R. I. D. E.!

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GRADUATION REQUIREMENTS
All students who enter high school at the 9th grade level or as a transfer student will be required to meet minimum state graduation requirements in order to receive a high school diploma.

State-Mandated Testing
In August 2016, the State Board of Education approved updated regulations for the high school graduation assessments requirements in both English language arts (ELA) and mathematics for the classes of 2016 through 2021 and beyond. It is important to note there has always been a system for students to demonstrate and meet graduation requirements through an alternative assessment or pathway to graduation throughout the 45-year history of assessment in New Jersey.

Students graduating as members of the classes of 2017 through 2019 can meet graduation assessment requirements through a variety of ways, including:
- Achieving passing scores on certain PARCC assessments;
- Achieving certain scores on alternative assessments (SAT, ACT, PSAT, ASVAB or ACCUPLACER); or
- Submitting a student portfolio by the district through the Department’s portfolio appeals process. Special Education students having Individualized Education Plans (IEPs) that specify an alternative way to demonstrate proficiencies will continue to follow the graduation requirements set forth in their IEPs.

The class of 2020 can demonstrate graduation assessment proficiency through the same alternative means as those in the classes of 2016 through 2019, provided that students in the class of 2020 take all PARCC assessments associated with the high-school level courses for which they were eligible as of the effective date of when the amendments were adopted by the State Board of Education. “Eligible” is defined as a student who is enrolled in a high-school level course for which there is a PARCC test including Algebra I, Geometry, Algebra II, ELA 9, ELA 10, and ELA 11.

For the class of 2021 and thereafter, students who have not demonstrated proficiency on the ELA 10 and Algebra 1 assessments and have taken all PARCC assessments associated with the high-school level courses for which they were eligible (see above definition), can demonstrate graduation assessment proficiency only by meeting the criteria of the portfolio appeals process. At the time this booklet was published, the official NJDOE policy is that no alternative assessments will be available to the classes of 2021 and after to satisfy the state testing requirement for graduation.

The list of assessment requirements for ELA and mathematics for the high school graduation classes of 2017 through 2021 can be found on pages 77-78 of the Program of Studies.

Specific Credit and Course Requirements
Failure to meet the following minimum curricula proficiencies may result in repeating courses or taking remedial courses or other suitable programs designed to make up the deficiency. Students must earn a total of 130 credits including the following:
- 20 credits in Language Arts Literacy
- 15 credits in Math including Algebra I and Geometry and a third year of math that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers
- 15 credits in Science including laboratory Biology and Chemistry, Physics, or Environmental Science and a third inquiry-based course
- 15 credits in Social Studies including 10 credits in US History (I and II) and 5 credits in World History
- 5 credits each year in Physical Education, Health/Fitness, and Safety
- 5 credits in World Language
- 5 credits in Visual & Performing Arts (VAP)
General Information

- 5 credits in Career Education, Family and Consumer Sciences, Life Skills, or Vocational-Technical Education (VOC)
- 2.5 credits in Financial, Economic Business, and Entrepreneurial Literacy

Freshmen must earn 32.5 credits to be placed in a sophomore homeroom. Sophomores must have earned a total of 65 credits to be placed in a junior homeroom. Juniors must have earned a total 97.5 credits to be placed in a senior homeroom.

Courses listed in this booklet may not be offered during a given school year due to insufficient enrollment or reductions in staffing.

SCHEDULE CHANGE POLICY

- Current 9th, 10th, and 11th grade students that are seeking level changes and/or admission to the Honors/Advanced Placement Program must make that request by March 24, 2017.
- Incoming freshmen will have until February 3, 2017 to petition for any level changes. Parents are to direct all level change requests directly to Department Supervisors and not school counselors.
- All students, including incoming freshmen, should expect to receive their final schedules during the first two weeks of June barring any delays. This is sufficient time prior to the schedule change deadline for parents and students to decide whether changes are warranted.
- Additional adjustments to schedules for all grade levels must be requested to the Guidance Office no later than two days after the RV graduation. This date may change due to unused snow day(s). Students and parents will be informed of the official cutoff date in June 2016 via the district’s automated phone system in the spring. Requests beyond this date may be addressed during the drop/add dates at the beginning of the 2017-2018 school year.
- Level change requests will be the only schedule changes that will be considered after the first full week of the school year. A parent/guardian consultation will be required for a change in any course level. Whenever possible, conferences will involve the counselor, parent or guardian, student, supervisor, and teacher. The superintendent will be consulted if there is disagreement resulting from the parent conference. A level change is dependent on classroom space availability.

NOTE: Students may not change their scheduled lunch or student prep without a doctor’s note.

DROPPING/ADDING COURSES

- There will be a two-day drop/add period at the beginning of each semester and quarter. Drop/add, interim, and end-of-quarter dates are posted on the RVRHS school calendar.
- Students who drop a 9-week course after the first ten school days of the course will receive a Withdrawal Pass (WP) or Withdrawal Fail (WF) on their permanent record card.
- Students who drop an 18-week semester course after the first interim date has passed for that course will receive a WP or WF on their permanent record card.
- Students who drop a 27-week course after the first marking period report card date will receive a WP or WF on their permanent record card.
- Students who drop a full year course after the second day of the second semester will receive a WP or WF on their permanent record card.

AUDITING COURSES

Juniors and seniors may elect to take up to two (2) full semester courses (one in fall term and one in spring term) or up to four (4) quarter courses (maximum of two in fall term and two in spring term) beyond the required courses for graduation on an audit (AU) basis. No credits will be awarded for audited (AU) courses. An AU course has no effect on grade point average (GPA). A grade of AU appears on the report card and student transcript. Students will be required to complete all class work and accept all other classroom responsibilities.
General Information

Students who choose this option can at a later date elect to receive grades and credit for the AU course. To receive grades and credits, the student must notify his/her counselor before September 15th for first quarter and for fall semester courses; November 15th for second quarter courses; February 15th for third quarter and spring semester courses; and April 13th for fourth quarter courses. Students choosing to audit after a course is in progress must be currently enrolled in that course. All requests to audit semester courses must be approved by the first interim due date.

ELIGIBILITY POLICY FOR EXTRACURRICULAR ACTIVITIES
A student’s eligibility is determined by the New Jersey State Interscholastic Athletic Association’s (NJSIAA’s) rules and bylaws:

• A student must earn a minimum of 30 credits during the current school year (including the summer completion program) to be eligible for participation in athletic programs and other extracurricular activities that begin in the upcoming fall or winter seasons.
• A student must have earned a minimum of 15 credits during the fall semester of the current school year to participate in sports or extracurricular activities during the spring season.

To meet minimum eligibility requirements, students are encouraged to schedule four classes per semester. All first-year high school students (new freshmen) are automatically eligible for the fall and winter sports seasons of their freshmen year. Seniors must be enrolled in a minimum of two courses per quarter in the spring semester equaling 10 credits for them to be eligible to participate in spring athletics.

Students MUST meet NCAA eligibility requirements to participate in athletics on the postsecondary level. Please visit ncaaclearinghouse.com for further details.

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

COLLEGE ENTRANCE REQUIREMENTS
• All students must earn 16 academic units in high school to meet minimum requirements for admission to most colleges/universities. Recommended courses include four units in English, two units in the same world language, two units in laboratory science (for example, Environmental Science, Biology and/or Chemistry), three units in math (Algebra I and higher), three units in social studies, and three additional units in any of the areas listed above. With few exceptions, colleges require entrance tests as part of the admissions process.
• All juniors take the PSAT in October during school hours. The junior PSAT is the qualifying test for the National Merit Scholarship Program. College-bound students should explore taking the SAT in the spring.
• Seniors should take the SAT and/or the ACT in the fall. Some southern and western colleges require the American College Test (ACT) instead of the SAT for college admission.
• Most competitive colleges/universities require the SAT II Subject Tests. Please check with the college as to whether SAT II Subject Tests are required for admission or placement. Students should discuss with their counselors the most advantageous date to take these tests.
• Registration materials for all testing programs are available in the Guidance Office and should be completed six weeks prior to the testing date. Students may also register online at www.collegeboard.org for the SAT. Students eligible for special testing accommodations as per their Individualized Education Plan (IEP) or 504 Plan should contact either their case manager or counselor prior to registering for the SAT.
ADVANCED PLACEMENT (AP)
Rancocas Valley Regional High School is a college-preparatory high school with a long history of equipping students to advance to many of the best colleges across the United States, and even beyond. The College Board, as a leading international voice in its advocacy for rigorous high school coursework, has established Advanced Placement (AP) classes as the gold standard for high school students aspiring to attend college. Consequently, American colleges and universities view AP classes as a universal benchmark when evaluating and selecting students. **RVRHS offers 16 AP classes and it encourages students to both take those rigorous classes (where there is an appropriate interest and commitment) and pursue the AP credit (transferable to colleges all over the world) by sitting for the AP exam.** RVRHS will assist students however it can in affording, preparing for, and succeeding in AP classes and exams.

COLLEGE ACCELERATED PROGRAM (CAP)
The Rancocas Valley Regional High School District, in partnership with Rowan College at Burlington County (RCBC), offers students enrolled in select courses an opportunity to earn both high school and college credit. Members of the RVRHS staff, who are also certified RCBC adjunct professors, teach these courses during the regular school day. **Students enrolled in AP Calculus AB, AP Physics C: Mechanics and Electricity & Magnetism, AP Spanish, and TV Broadcasting are also eligible for college credit through Seton Hall University.**

<table>
<thead>
<tr>
<th>RVRHS Course</th>
<th>RCBC Course</th>
<th>RVRHS Course</th>
<th>RCBC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Biology I</td>
<td>BIO 103-104</td>
<td>AP Italian</td>
<td>ITA 202</td>
</tr>
<tr>
<td></td>
<td>BIO 107-108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Calculus AB*</td>
<td>MTH 118</td>
<td>AP Spanish*</td>
<td>SPA 202</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>MTH 119</td>
<td>AP US Government</td>
<td>POL 101</td>
</tr>
<tr>
<td>AP Chemistry I</td>
<td>CHE 115-116</td>
<td>AP Euro History</td>
<td>HIS 104</td>
</tr>
<tr>
<td>AP Chemistry I</td>
<td>CHE 117-118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Psychology</td>
<td>PSY 101</td>
<td>Video Production</td>
<td>ETV 105</td>
</tr>
<tr>
<td>AP English Language</td>
<td>ENG 101</td>
<td>TV Broadcasting*</td>
<td>ETV 101</td>
</tr>
<tr>
<td>AP English Literature</td>
<td>ENG 102</td>
<td>AP Physics C: Mech*</td>
<td>PHY 210-210</td>
</tr>
<tr>
<td>AP French</td>
<td>FRE 202</td>
<td>AP History</td>
<td>HIS 102</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>MTH 107</td>
<td>Honors Pre-Calculus</td>
<td>MTH 130</td>
</tr>
</tbody>
</table>

**CAP is another option for students, rather than a replacement for participation in the AP testing program, and is especially beneficial for students who perform well on classroom assessments, but find standardized tests challenging, such as the AP examination. CAP credits may be more readily accepted as college transfer credits over the credit awarded for scoring a 3 or above on the AP examination for some students. All public New Jersey Higher Education Institutions must accept credits earned for college courses taken under articulation agreements between District Boards of Education and New Jersey Colleges and Universities. Students enrolled in Project Lead the Way should refer to that section of the Program of Studies for information regarding college credits.**

HONOR ROLL
A student must be carrying a minimum of 7.5 credits of coursework (three full blocks both A and B days) in a marking period to be eligible for Honor Roll status. Audits, Teacher Assistants, Community Service, Pass/Fail courses, and WP will not be considered when calculating honor roll.

- Student of Distinction — all A’s
- High Honor Roll — all A’s and B’s

EARLY DISMISSAL
This option is only available for seniors who earned 97.5 credits by the end of their junior year and are on track to graduate. They will have the opportunity to choose Early Dismissal as a course when they meet with their guidance counselor to select courses. The request form must be signed by both the student and the parent/guardian regardless of the student’s age. Failure to complete and submit the form to the
General Information

Guidance Office by March 24, 2017 will result in a study hall being placed on the student’s schedule instead of Early Dismissal.

STUDENT IN GOOD STANDING
Rancocas Valley Regional High School recognizes that participation in activities is an important part of a student’s school experience. There are many academic expectations in addition to social activities that enhance a student’s high school career. We support these social events as privileges for students who have demonstrated good attendance, academic achievement, and appropriate behavior throughout the school year.

Freshmen, sophomores, and juniors must meet the eligibility requirements listed below to attend the Homecoming Dance, any Class Prom (Junior and/or Senior Prom) as a guest or a member of the class, and any school sponsored trip. Seniors must meet the eligibility requirements listed below to earn parking privileges on campus and to participate in the Homecoming Dance, Senior Class Trip, any Class Prom as a guest or member of the class, and any school sponsored trip, including Project Graduation:

1. **Attendance** – No more than 12 unauthorized absences and no more than 15 unauthorized lates prior to the date of the privilege or event. Students on home instruction are not eligible for school events.
2. **Discipline** – No more than 2 out-of-school suspensions or any single offense that rises to the level of a superintendent or board of education hearing.
3. **Fines** – All fines must be paid in full prior to the privilege or event. Prom tickets cannot be purchased or parking permits issued unless all fines are paid.

It is the student’s responsibility to monitor his/her status as a Student in Good Standing. There are no refunds for monies paid for the Senior Class Trip and class proms if a student is not in good standing at the time of the trip and/or prom. Changes to this policy may appear after print on the school website at www.rvrhs.com.

OPTION II PROGRAMS
The Rancocas Valley Regional High School District provides a superior education by utilizing multiple and diverse paths to success for all children. Students will be able to explore educational experiences that are meaningful and relevant, and that provide opportunities to explore and achieve at high levels. N.J.A.C. 6A: 8-5.1 (a) 1ii, commonly known as “Option II”, permits district boards of education to establish curricular activities or programs aimed at achieving the New Jersey Core Curriculum Content Standards for promotion and graduation purposes. Option II serves as an alternative to traditional high school courses.

Option II programs will allow students to obtain credit for learning experiences outside of the traditional classroom environment. In some instances, the credit and grade earned will be calculated into a student’s GPA and class rank. In general, if an Option II course is listed in the Program of Studies, the student can take our district assessment for the grade to be calculated in the GPA or class rank. If there is no equivalent course, the credit earned will be counted as elective credit.

Students may be permitted an early release from the school day in order to participate in some of the approved Option II programs. The following programs are available to students as alternative means in obtaining the necessary credit for graduation:
- College Courses
- Community Education (EMT, CPR/First Aid training, Life Guard certification, and Child Care training)
- Community Service
- Courses Completed Prior to Grade 9
- Independent Study at Rancocas Valley Regional High School
- Physical Education Exemption
EARLY GRADUATION (THREE-YEAR PROGRAM)
Students who have clearly demonstrated a scholastic aptitude, an unusual readiness for the world of work, a financial need, or a serious health or family concern may be considered for early graduation. Students must submit their request in writing prior to the completion of their sophomore year. Minimal requirements must be met to be eligible for early graduation.

Students must successfully pass all State-mandated testing requirements. Students are able to earn 40 credits a year during the regular school day hours. In order to graduate in three years, Option II opportunities must be used to earn additional credits. Approval must be obtained from the parents/guardians, school counselor, and the Assistant Principal for Pupil Personnel Services. Students must satisfy the 130-credit graduation requirement.

POST-SECONDARY PLANS
Students should inform counselors whether they are attending a college or vocational/technical school, entering the military armed services, or seeking employment following graduation.

SPECIAL EDUCATION PROGRAM
The RVRHS District offers a variety of educational programs and related services for students with special needs. The Child Study Team works in partnership with parents and teachers to provide special services to enable students to participate in the regular programs to the maximum extent appropriate. The program of special education classes is agreed upon at the annual Individual Education Program (IEP) meeting and monitored throughout the year by a case manager. Programs are designed to meet the individual’s demonstrated educational needs and include a wide range of services including co-teaching, resource centers, self-contained programs, and a full array of related services and special placements.

GUIDELINES FOR DETERMINING GRADE-POINT AVERAGE AND CLASS RANK
In selecting courses, students are reminded that some courses carry more value (weight) than other courses. Courses are divided into three categories:
- Advanced Placement: College-level academic instruction.
- Honors: High academic challenge for competitive four-year colleges.
- College Preparatory: Rigorous preparation for two-year and most four-year colleges.

Grade-point average is determined by multiplying the number of credits assigned to a course by the number of points earned by the student using the table on page 6 divided by the number of credits attempted for the course. The nonweighted GPA includes the courses in which the student is enrolled calculated on a 4.0 scale regardless of the level of difficulty.

<table>
<thead>
<tr>
<th>Numeric Value</th>
<th>AP Weighted</th>
<th>Honors Weighted</th>
<th>College Prep Weighted</th>
<th>Standard Courses</th>
<th>Nonweighted Courses (All)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>99-100</td>
<td>6.50</td>
<td>6.00</td>
<td>5.00</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>96-98</td>
<td>6.17</td>
<td>5.67</td>
<td>4.67</td>
<td>3.67</td>
</tr>
<tr>
<td>A-</td>
<td>93-95</td>
<td>5.83</td>
<td>5.33</td>
<td>4.33</td>
<td>3.33</td>
</tr>
<tr>
<td>B+</td>
<td>91-92</td>
<td>5.50</td>
<td>5.00</td>
<td>4.00</td>
<td>3.00</td>
</tr>
<tr>
<td>B</td>
<td>88-90</td>
<td>5.17</td>
<td>4.67</td>
<td>3.67</td>
<td>2.67</td>
</tr>
<tr>
<td>B-</td>
<td>85-87</td>
<td>4.83</td>
<td>4.33</td>
<td>3.33</td>
<td>2.33</td>
</tr>
<tr>
<td>C+</td>
<td>82-84</td>
<td>4.50</td>
<td>4.00</td>
<td>3.00</td>
<td>2.00</td>
</tr>
<tr>
<td>C</td>
<td>80-81</td>
<td>4.17</td>
<td>3.67</td>
<td>2.67</td>
<td>1.67</td>
</tr>
<tr>
<td>C-</td>
<td>77-79</td>
<td>3.83</td>
<td>3.33</td>
<td>2.33</td>
<td>1.33</td>
</tr>
<tr>
<td>D+</td>
<td>75-76</td>
<td>3.50</td>
<td>3.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>D</td>
<td>73-74</td>
<td>3.17</td>
<td>2.67</td>
<td>1.67</td>
<td>0.67</td>
</tr>
<tr>
<td>D-</td>
<td>70-72</td>
<td>2.83</td>
<td>2.33</td>
<td>1.33</td>
<td>0.33</td>
</tr>
<tr>
<td>F</td>
<td>0-69</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
### General Information

#### Example of Weighted GPA Calculation

<table>
<thead>
<tr>
<th>Course</th>
<th>Final Grade</th>
<th>Numerical Value</th>
<th>Credit Value</th>
<th>=</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra II</td>
<td>86</td>
<td>3.33</td>
<td>X 5.0</td>
<td>=</td>
<td>16.65</td>
</tr>
<tr>
<td>Art II</td>
<td>95</td>
<td>4.33</td>
<td>X 5.0</td>
<td>=</td>
<td>21.65</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>91</td>
<td>4.00</td>
<td>X 5.0</td>
<td>=</td>
<td>20.00</td>
</tr>
<tr>
<td>Physical Education</td>
<td>98</td>
<td>4.67</td>
<td>X 2.5</td>
<td>=</td>
<td>11.68</td>
</tr>
<tr>
<td>English III Honors</td>
<td>90</td>
<td>4.67</td>
<td>X 5.0</td>
<td>=</td>
<td>23.35</td>
</tr>
<tr>
<td>Health/Fitness III</td>
<td>92</td>
<td>4.00</td>
<td>X 2.5</td>
<td>=</td>
<td>10.00</td>
</tr>
<tr>
<td>French III</td>
<td>93</td>
<td>4.33</td>
<td>X 5.0</td>
<td>=</td>
<td>21.65</td>
</tr>
<tr>
<td>US History II AP</td>
<td>83</td>
<td>4.50</td>
<td>X 7.5</td>
<td>=</td>
<td>33.75</td>
</tr>
</tbody>
</table>

Weighted GPA = \[
\frac{158.73}{37.5} = 4.2326
\]

#### Example of Unweighted GPA Calculation

<table>
<thead>
<tr>
<th>Course</th>
<th>Final Grade</th>
<th>Numerical Value</th>
<th>Credit Value</th>
<th>=</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra II</td>
<td>86</td>
<td>3.0</td>
<td>X 5.0</td>
<td>=</td>
<td>15.0</td>
</tr>
<tr>
<td>Art II</td>
<td>95</td>
<td>4.0</td>
<td>X 5.0</td>
<td>=</td>
<td>20.0</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>91</td>
<td>3.0</td>
<td>X 5.0</td>
<td>=</td>
<td>15.0</td>
</tr>
<tr>
<td>Physical Education</td>
<td>98</td>
<td>4.0</td>
<td>X 2.5</td>
<td>=</td>
<td>10.0</td>
</tr>
<tr>
<td>English III Honors</td>
<td>90</td>
<td>3.0</td>
<td>X 5.0</td>
<td>=</td>
<td>15.0</td>
</tr>
<tr>
<td>Health/Fitness III</td>
<td>92</td>
<td>3.0</td>
<td>X 2.5</td>
<td>=</td>
<td>7.5</td>
</tr>
<tr>
<td>French III</td>
<td>93</td>
<td>4.0</td>
<td>X 5.0</td>
<td>=</td>
<td>20.0</td>
</tr>
<tr>
<td>US History II AP</td>
<td>83</td>
<td>2.0</td>
<td>X 7.5</td>
<td>=</td>
<td>15.0</td>
</tr>
</tbody>
</table>

Unweighted GPA = \[
\frac{117.50}{37.5} = 3.133
\]

The report card will reflect both the weighted and nonweighted grade-point averages at the end of each semester. Students who select Advanced Placement or Honors courses have an increased opportunity to earn a higher weighted grade-point average. Class rank is determined using the weighted grade-point average.

---

**Note that the attainment of a minimum grade as a prerequisite for enrollment in specific courses should be considered as a recommended guideline when selecting courses.**

### GRADING POLICY

Student grades are reported numerically. This allows parents and students the opportunity to better monitor progress in courses.

### SUMMER COMPLETION

Rancocas Valley Regional High School does not provide summer school or summer completion. In an attempt to assist students with graduating or advancing to the next grade level, students may take courses at other locations and receive credit for completed work. Students may only take advantage of this option for courses that were failed through the course of the current school year. In order to walk in graduation a student must have met the graduation requirements set forth in their senior contract that was completed with the Guidance counselor.

A maximum of two (2) courses may be completed in this fashion, each of which must be approved by the school prior to starting or registering for any coursework. No course may extend beyond August 8th. All course requirements must be completed in order to receive your diploma. In order to walk in graduation, a
student must have met the graduation requirements set forth in their senior contract completed with his/her Guidance counselor.

For all options, the cost per course is the responsibility of the student. Upon completion of the course, the student must ensure final grades are sent to RVRHS in order to update the student's transcript. The grade obtained will be in addition to the original failing grade with both grades being factored into the student’s GPA. Both grades will appear on the student’s transcript.

Option #1
Students may take an approved course online through the Educere Company. The cost per course is the responsibility of the student. A list of approved courses can be accessed through the RVRHS webpage (www.rvrhs.com under “Guidance” and “Summer School”). Downloadable from the Summer School page on the RV website, the Summer School form must be completed and returned to Guidance for approval before registering for a course. Other online courses may be used with prior approval from RVRHS. Upon completion of the course, the student must ensure final grades are sent to RVRHS so the student’s transcript can be updated accordingly. Educere will automatically send final grades to RV RHS. The grade obtained will be in addition to the failing grade with both being factored into the student’s GPA and both grades appearing on the student’s transcript.

Option #2
Students may take an approved course through another high school summer program. The cost per course, is, the responsibility of the student. Upon completion of the course, the student will ensure grades are sent to Rancocas Valley and the student’s transcript will be updated accordingly. The grade obtained will be in addition to the failing grade with both being factored into the student’s GPA and both grades appearing on the student's transcript.

Option #3
Students may take an approved course through Rowan College at Burlington County (RCBC). Students must complete the RCBC form obtainable from Guidance for approval. The cost per course is the responsibility of the student. Upon completion of the course, the student will ensure grades are sent to RVRHS and the student's transcript will be updated accordingly. The grade obtained will be in addition to the failing grade with both being factored into the student’s GPA and both grades appearing on the student’s transcript.

NON-DEPARTMENTAL COURSES
The following non-departmental courses are available to qualified students:

TEACHING ASSISTANT - 1901-1904
(Pass/Fail)
Grade Level: 9-12
Credits: 0.5
Length: 9 weeks
Students may serve as a teaching assistant for a teacher during a teaching block ONLY. No teaching assistantships will be approved during students’ or teachers’ student preps or lunches or during a teacher’s preparation period. Teaching Assistants may help with presentations and activities, distribute materials, and tutor or assist students. Teaching Assistants are not involved with any grading or record keeping of any kind.
LIBRARY INTERNSHIP (Option II Program) - 1080
(Pass/Fail)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Students assist the library staff with various tasks including shelving, displays, filing, processing new materials, and performing various clerical duties. Students are expected to carry themselves professionally and be trusted with the responsibilities of a worker. Approval for participation is granted by the librarian.
Students wanting to participate in athletics or receive an athletic scholarship during their first year, must (1) graduate from high school, (2) earn a minimum required grade-point average in their core courses and a combined SAT or ACT sum score that matches their core-course grade-point average and test score sliding scale and (3) complete these 16 core courses:

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, world language or comparative religion/philosophy).

Division I student-athletes must earn at least a 2.3 grade-point average in core courses and meet an increased sliding-scale standard (for example, an SAT score of 820 requires a 2.5 high school core course GPA). The students must also successfully complete 10 of the 16 total required core courses before the start of their seventh semester in high school. Seven of the ten courses must be a combination of English, math or natural or physical science which meet the distribution requirements. These 10 courses become "locked in" at the start of the seventh semester and cannot be retaken for grade improvement. A Division I college-bound student-athlete can receive athletics aid and practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete during this time.

Students that earn at least a 2.0 GPA, but not a 2.3 GPA, and meet the current sliding scale standard will be eligible for practice in the first term and athletically related financial aid the entire year, but not competition. Freshmen who are academically successful in the first term will earn the ability to continue to practice for the remainder of the year.

The Division I GPA required to receive athletics aid and practice on or after August 1, 2016, is 2.000-2.299 and to be eligible for competition is 2.300.
The SAT score used for NCAA purposes includes only the critical reading and math sections, while the ACT score is a sum of the English, mathematics, reading and science sections.

**Requirement to Graduate with Your High School Class**
You must complete the 16 core-course requirement in eight semesters, which begins when you initially started high school with your 9th grade class. If you graduate from high school in eight semesters with your class, you may use one core-course unit completed within one year after graduation (summer or academic year) to meet NCAA Division I initial-eligibility requirements. You may complete the core course at a location other than the high school from which you graduated and may initially enroll full time at a collegiate institution at any time after completion of the core course.

Being a **Division I Qualifier** enables you to (1) practice or compete for your college or university during your first year of college, (2) receive an athletics scholarship during your first year of college, and (3) play four seasons in your sport if you maintain your eligibility from year to year.

As a **Division I Nonqualifier**, you will not be able to (1) practice or compete for your college or university during your first year of college or (2) receive an athletics scholarship during your first year of college, although you may receive need-based financial aid. You may be able to play only three seasons in your sport if you maintain your eligibility from year to year. To earn a fourth season, you must complete at least 80 percent of your degree requirements before beginning your fifth year of college.

**Division II**
If you enroll in a Division II college and want to participate in athletics or receive an athletics scholarship during your first year, you must (1) graduate from high school, (2) earn a 2.000 grade-point average or better in your core courses, (3) earn a combined SAT score of 820 or an ACT sum score of 68, and (4) complete these 16 core courses:
- 3 years of English
- 2 years of math (Algebra 1 or higher)
- 2 years of natural or physical science (including one year of lab science)
- 3 additional years of English, math, or natural or physical science
- 2 years of social science
- 4 years of additional core courses (from any category above or world language, nondoctrinal religion, or philosophy)

Being a **Division II Qualifier** enables you to (1) practice or compete for your college or university during your first year of college, (2) receive an athletics scholarship during your first year of college, and (3) play four seasons in your sport if you maintain your eligibility from year to year.

You will be considered a **Partial Division II Qualifier** if you do not meet all of the academic requirements listed above but you have graduated from high school and either have a combined SAT score of 820 or ACT sum score of 68 or completed the 14 core courses with a 2.000 core-course grade-point average. As a partial qualifier, you can (1) practice with your team at its home facility during your first year of college, (2) receive an athletic scholarship during your first year of college, and (3) play four seasons in your sport if you maintain your eligibility from year to year. However, you cannot compete during your first year of college. **Beginning August 1, 2018, to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.**

You will be considered a **Division II Nonqualifier** if you did not graduate from high school or if you graduated and are missing both the core-course grade-point average and minimum number of core courses and the required ACT or SAT scores. As a nonqualifier, you cannot practice or compete for your college or university during your first year of college or receive an athletics scholarship during your first year of college, although you may receive need-based financial aid. However, you can play four seasons in your sport if you maintain your eligibility from year to year.
Fine Arts

Students having a serious interest or plan on majoring in Art in college should complete the following sequence of courses: Art I • Art II • Drawing • Art III Honors • As many additional art course as possible.

Students having a general interest in Art are recommended to complete a combination of the following courses: Art I • Design Elements I • Drawing • Art II.

Students having an interest in Handcrafts are recommended to complete a combination of the following courses: World Crafts • Ceramics I - Wheel Throwing • Ceramics II – Wheel Throwing/Hand Building.

Students having an interest in Design are recommended to complete the following courses: Design Elements I • Design Elements II • Design Elements III.

ART I — 509  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Art I fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. In this introductory class, the seven basic elements of art will be covered: line, shape, value, form, texture, space, and color. The elements of art are the building blocks of all artistry. Artists use these elements of art to create visual images for expressing their ideas. Students will have the opportunity to learn the art elements while using a variety of materials to produce their own creations. Along with the visual elements, art vocabulary, art history, critique, and studio procedures will be emphasized.

CERAMICS I – WHEEL THROWING — 535  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Ceramics I – Wheel Throwing fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This nine-week course provides a good introduction to creating functional pottery forms for students with no prior experience. Fundamental techniques will be presented such as wedging; centering; the development of cylinders, cup/mug forms, bowls, handles and lids; and trimming along with glazing and slip decoration. Students will learn through demonstration, projected images, and actual examples, how humans have created artworks using the potter’s wheel, that are beautiful, functional, and unique to time and place.

CERAMICS II – WHEEL THROWING/HAND BUILDING — 527  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Ceramics I - Wheel Throwing 528  
Ceramics II – Wheel Throwing/Hand Building fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Students in this course will receive a solid foundation in hand-formed ceramics. This class is designed for students with a strong interest in ceramics and pottery making. Building techniques that include pinching, coiling, extruding, and slab-forming will be taught along with numerous glazing and decorative processes. Wheel throwing (the use of the pottery wheel) is taught as a separate course.
Fine & Performing Arts and Consumer Science Department

ART II — 511
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Art I
Art II fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This course is a continuation of the study of two- and three-dimensional art that was introduced in Art I. With a sincere interest in advancing their own technique, knowledge, and skills, students will concentrate on applying their art ability to strengthen the creativity of two- and three-dimensional works in a variety of media. A professional studio atmosphere will be maintained to encourage better classroom performance by self-motivated students. Career guidance and portfolio will be stressed for potential artists.

ART III HONORS — 513
(Honors)
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Prerequisite: Art I, Art II and teacher recommendation
Art III Honors fulfills the Visual & Performing Arts (VAP) graduation requirement. This course is an advanced level studio experience for the student considering a career in the visual arts. Independent work demonstrating an understanding of the elements and principles of art and design will be required in a variety of two and three-dimensional areas, both traditional and non-traditional. Portfolio preparation will include taking slides and/or video for use in the college application process.

WORLD CRAFTS — 520
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
World Crafts fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement for the state of NJ. This course is an introduction to some of the creative areas of crafts from around the world: Japanese Bookmaking, African Printing Making, Calligraphy and the Celtic Illuminated Letter. Drawing, painting and designing with a variety of materials will be emphasized, as well as an extensive study of the elements and principles art as applied to original crafts projects. Students will be exposed to multicultural traditions and geography in the visual arts. Careers discussed will include textile and accessory design, graphic/logo design, and studio production.

DRAWING — 507
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Art I or World Crafts, and/or teacher recommendation
Drawing fulfills the Visual & Performing Arts (VAP) graduation requirement. This course is an exploration of materials and techniques of drawing from observation. Pencil, charcoal, pastel and ink will be used for figure, still life, portrait, and landscape studies. Students will critique their own work. Art history will also be discussed. This course is an essential for students preparing portfolios and who plan to attend college for any major in the arts.
DESIGN ELEMENTS I — 536  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Design Elements I fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This nine-week course exposes the student to a variety of design problems utilizing the elements and principles of design. Art tools such as computers, markers, colored pencils, and other design mediums are combined to create original and creative projects.

DESIGN ELEMENTS II — 528  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Design Elements I  
Design Elements II fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This second level design course is structured to give students the opportunity to create more elaborate and complex projects utilizing prior knowledge and skills. Students will be expected to apply more advanced principles of design in all required work. Each project will begin with concept gathering and planning; once the concept has been developed the student will use a variety of computer programs to develop all required work.

DESIGN ELEMENTS III — 531  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Design Elements I and Design Elements II  
Design Elements III fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This course will help students explore career choices in the field of design. Various design projects will be completed in the areas of graphic design, illustration, advertising, layout, interior design, architecture, packaging, and three-dimensional rendering. Students will create their own original projects using a wide variety of professional mediums and tools varying from the use of marker- to computer-generated imagery. Critique of work and development of portfolios will follow each project completed.
Performing Arts

MUSIC THEORY I — 610
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisite: Prior music experience, teacher approval
Musical Theory I fulfills the Visual & Performing Arts (VAP) graduation requirement. This course is a study of the fundamental concepts and applications of music. Students will understand how music is written and created through intensive study of musical elements such as harmony, melody and rhythm. Students will be able to write their own compositions through study in this course. In addition, students will develop aural skills through music dictation, sight-reading and ear-training.

MUSIC THEORY II — 611
(Honors)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisite: Music Theory I (or equivalent) or teacher approval
Musical Theory II fulfills the Visual & Performing Arts (VAP) graduation requirement. This course is a continuation of Music Theory I, with further study in harmony, melody and rhythm. Advanced concepts such as figured bass, chromatic harmony and modern theory will be covered. Students will participate in an intense study of musical structure, form, advanced harmony, arranging and composition as well as an overview of music history. Students will continue to advance their aural skills.

FALL CONCERT BAND — 548
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 18 weeks A/B Days
Prerequisite: Prior instrumental experience
NOTE: This course is only offered during the fall semester.
Fall Concert Band fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. The Concert Band is open to all experienced instrumental musicians who play a band instrument (woodwind, brass, or percussion). No audition is required. This group performs concert band music from the standard literature and gives several concerts at school and throughout the community during the first semester.

MUSIC LAB — 581
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Prior instrumental experience, teacher approval
Music Lab fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This course is designed to provide instrumental music students the opportunity to improve and expand their individual instrumental technique. Students work individually or in groups on solo and small group repertoire in preparation for in-class recital performances (two per semester). Students with background in ALL instruments, including piano, guitar, bass, and drums, are eligible to enroll.
MARCHING BAND — 547 (After-School Activity)
(Pass/Fail)
Grade Level: 9-12
Credits: 2.5 through Option II Program
Length: 9 weeks
Prerequisite: Prior band instrumental experience, teacher approval
Co-requisite: Concert Band (fall and/or spring) OR Wind Ensemble
NOTE: This after-school activity is offered for credit during the 1st quarter.
Matching Band fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. The Red Devil Marching Band is one of the school’s most prominent organizations and enjoys a proud tradition as one of Burlington County’s oldest high school bands! The group is comprised of band instrumentalists and Color Guard members. The Marching Red Devils are the 2009 USSBA Group 3 NJ State Champions and the 2009 USSBA Group 3 National Champions. The band has traveled to many destinations, including Canada, Georgia, Virginia, and Florida. There is no audition necessary. Interested students are encouraged to see Mr. Britton for more information. The band also maintains an active competitive schedule during the fall competing at the local, regional, and national level.

WIND ENSEMBLE — 542
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 36 weeks A/B Days
Prerequisite: Audition, teacher approval, and prior enrollment in Honors Wind Ensemble
NOTE: This course is a year-long class.
Wind Ensemble fulfills the Visual & Performing Arts (VAP) graduation requirement. The Wind Ensemble is a select group of woodwind, brass, and percussion instrumentalists admitted by audition and/or permission of the director. The Wind Ensemble performs the widest possible variety of advanced high school, college, and contemporary band repertoire from standard and contemporary literature. The Wind Ensemble performs several concerts per year at the school and throughout the community and region.

WIND ENSEMBLE — 541
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 36 weeks A/B Days
Prerequisite: Audition, teacher approval
NOTE: This course is a year-long class.
Wind Ensemble fulfills the Visual & Performing Arts (VAP) graduation requirement. The Wind Ensemble is a select group of woodwind, brass, and percussion instrumentalists admitted by audition and/or permission of the director. The Wind Ensemble performs the widest possible variety of advanced high school, college, and contemporary band repertoire from standard and contemporary literature. The Wind Ensemble performs several concerts per year at the school and throughout the community and region.

SPRING CONCERT BAND — 539
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 18 weeks A/B Days
Prerequisite: Prior band instrumental experience
NOTE: This course is only offered during the spring semester.
Spring Concert Band fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. The Concert Band is open to all experienced instrumental musicians who play a band instrument (woodwind, brass, or percussion). No audition is required. The group performs concert band music from the standard literature and gives several concerts at school and throughout the community during the spring semester.
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ORCHESTRA — 550
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisite: Prior string instrumental experience
Orchestra fulfills the Visual & Performing Arts (VAP) graduation requirement. The orchestra is open to all experienced students of violin, viola, cello, and bass. No audition is required. The group performs intermediate to advanced orchestra music from all eras in all styles. The orchestra gives several concerts each year at school and throughout the community.

APPLIED PERCUSSION — 543
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Prior drumming and percussion experience
Applied Percussion fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Applied Percussion is available for all students who have experience with or would like to learn more about percussion. Students will study all areas of percussion including drum-set, world percussion, and contemporary percussion. The course will be a mixture of academic study and live performance. Students will perform music at the conclusion of the course in a recital setting.

JAZZ STUDIES — 544
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Prior experience as a performing musician, teacher approval
NOTE: This course is only offered during the spring semester.
Jazz Studies fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Jazz Studies is available for all students interested in learning more about America’s true musical art form — jazz. Students will study the history, theory, and performance practices of jazz in both an academic and applied performance setting.

ROCK LAB — 545
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Rock Lab fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Rock Lab is a music course designed for musicians who want to ROCK! The course emphasizes performance but will also include study of the history and styles of rock music. Students will develop their playing skills through practice, song study, and peer-to-peer collaboration. Students will also have the opportunity to develop songwriting skills and get basic training in recording techniques. The course will culminate in a concert at the end of the marking period featuring covers and original music! This course is open to guitarists, bassist, keyboardists, vocalists, and drummers. Please contact Mr. David Britton for more course information.
MEN’S CHORUS — 590  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Men’s Chorus fulfills the Visual & Performing Arts (VAP) graduation requirement. The Men’s Chorus is a vocal ensemble which requires no audition or previous vocal experience. Many styles of music will be studied and performed, including excerpts from Broadway musicals, classical, folk, sacred, and pop music. Members will have opportunities to perform at concerts and attend workshops and shows. Men’s Chorus members receive instruction in fundamental vocal technique and music theory.

WOMEN’S CHORUS — 591  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Women’s Chorus fulfills the Visual & Performing Arts (VAP) graduation requirement. Women’s Chorus in a non-auditioned vocal ensemble comprised of women in all grades and performs a wide range of music. No previous musical experience is required. Members receive instruction in music theory and proper vocal technique. Performances, master classes, and field trips to see musical events off campus may be included in course activities. Women’s Chorus performs at the Spring Concert.

WOMEN’S ENSEMBLE — 585  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: Women’s Chorus and/or audition; teacher approval  
Women’s Ensemble fulfills the Visual & Performing Arts (VAP) graduation requirement. Women’s Ensemble is an advanced, auditioned SSA vocal ensemble for women’s voices. Music of many genres will be studied and performed at the Winter Concert and at other venues during the fall semester. Advanced vocal and performances techniques such as a cappella singing, diction in English and world languages, and performance practice will be studied in the course. Students will work daily on fundamentals of singing and music theory. Performances, master classes, and field trips to see musical events off campus may be included in course activities.

CONCERT CHOIR — 592  
(Honors)  
Grade Level: 11, 12  
Credits: 5  
Length: 36 weeks alternating A/B Days  
Prerequisites: Audition, teacher approval, and prior enrollment in Honors Concert Choir  
Concert Choir fulfills the Visual & Performing Arts (VAP) graduation requirement. The Concert Choir is an advanced, auditioned SATB vocal ensemble which has been a centerpiece of the RVRHS choral program since 1938! This 50-voice choir has performed throughout the eastern United States, Canada, and Europe. The Concert Choir performs a wide variety of advanced repertoire at concerts and events on and off campus. Trips to concerts and musical theater performances will be offered. Opportunities to participate in master classes or collaborate with guest artists are also offered. Advanced music theory study is part of this curriculum.
CONCERT CHOIR — 593
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 36 weeks alternating A/B Days
Prerequisites: Audition and teacher approval
Concert Choir fulfills the Visual & Performing Arts (VAP) graduation requirement. The Concert Choir is an advanced, auditioned SATB vocal ensemble which has been a centerpiece of the RVRHS choral program since 1938! This 50-voice choir has performed throughout the eastern United States, Canada, and Europe. The Concert Choir performs a wide variety of advanced repertoire at concerts and events on and off campus. Trips to concerts and musical theater performances will be offered. Opportunities to participate in master classes or collaborate with guest artists are also offered. Advanced music theory study is part of this curriculum.

MUSICAL THEATER ENSEMBLE — 609
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 36 weeks alternating A/B Days
Prerequisite: Teacher approval and prior enrollment in Honors Music Theater Ensemble
Musical Theater Ensemble fulfills the Visual & Performing Arts (VAP) graduation requirement. Production of a themed musical revue and/or a show by a composer from the standard repertory is the focal point of this performance-based class. Topics covered include utilizing source materials, musical preparation and interpretation, choreography, sets, costumes, lighting and sound, vocal technique, acting, staging and more. Trips to musical theater performances are be offered. Opportunities to participate in master classes or collaborate with guest artists are also offered.

MUSICAL THEATER ENSEMBLE — 605
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 36 weeks alternating A/B Days
Prerequisite: Teacher approval
Musical Theater Ensemble fulfills the Visual & Performing Arts (VAP) graduation requirement. Production of a themed musical revue and/or a show by a composer from the standard repertory is the focal point of this performance-based class. Topics covered include utilizing source materials, musical preparation and interpretation, choreography, sets, costumes, lighting and sound, vocal technique, acting, staging and more. Trips to musical theater performances are be offered. Opportunities to participate in master classes or collaborate with guest artists are also offered.

THEATER PREPARATION I — 615
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
This introductory acting class is a prerequisite of Theatre Preparation II and fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. The class is performance-based and requires students to immerse themselves in public presentation and artistic performance. Students will be challenged with the studies of basic theatre terminology, vocal & body control, script & character analysis, improvisational acting, and an introduction to theatre history. Above all, Theater Preparation I build confidence and communicative structure within the individual student through a true artistic acting experience.
THEATER PREPARATION II — 617  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Theater Preparation I  
This second level introductory acting class is a prerequisite of Performing Arts and fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. The class is performance-based and requires students to immerse themselves in advancing acting technique. Students will be challenged with higher-level theatre terminology, stage aesthetics, stage presence, and theatre readings, as well as advanced voice & body control, improvisational acting, basic directing techniques, and playwriting. Theater Preparation II builds upon the student artist ready to take him or herself seriously through an expressive artistic acting experience.

PERFORMING ARTS — 616  
(College Preparatory)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: Successful completion of Theater Preparation I and II and teacher recommendation  
Performing Arts is an advanced art class designed for serious and motivated student actors. Students will immerse themselves in upper level acting techniques, theories, and practices. Classic and contemporary scripts are studied extensively alongside advanced theatre history. In the end, each member of the class will leave with a well-developed audition portfolio and improved sense of body and voice.

P2P COMMUNICATIONS — 618  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
P2P Communications fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This course is an analysis of the basic ingredient needed for an effective voice in any speaking situation. Both individual and group exercises will be conducted to improve breathing, posture, relaxation, sound of voice, articulation, and pronunciation. Also, various types of speeches will be studied, developed, and presented. Poetry, storytelling, radio plays, and video techniques will be included.
Family & Consumer Sciences

Family and Consumer Sciences courses provide students with the opportunity to prepare for independent living, healthy family relationships, and healthier living through better nutrition.

FOODS FOR WELLNESS & NUTRITION — 620
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Foods for Wellness & Nutrition fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course provides the skills, information, and hands-on cooking experiences necessary for the beginner. Food groups are studied in order to obtain a better understanding of nutrients and their functions relating to a better, healthier you. The selection, storage, and preparation of many foods will be explored. Students will develop and demonstrate organizational and work-related skills. In addition to food preparation and sampling, major requirements include written assignments, a personal notebook, a variety of assessments and class projects focusing on nutrition, meal planning, and food preparation.

ADVANCED FOODS — 624
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Must have passed Foods for Wellness and Nutrition, teacher approval
Advanced Foods fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course is a continuation of the study of food preparation, nutrition, and other topics studied in Foods for Wellness. The labs are designed for the students to demonstrate practiced learning of advanced cooking techniques and to fine-tune their culinary skills. Written reports, projects, presentations, varied assessments, and cooperative group work are course requirements.

CHILD DEVELOPMENT — 629
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
NOTE: Required for students using the on-site daycare facility.
Child Development fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course is an entry-level course focusing on development from the birth to age 6. Students will study the influences on prenatal and postnatal development, the importance of families and caregivers, and making responsible decisions about pregnancy and parenting. Students will specifically explore the physical, intellectual, social, and emotional development of children during the first year to sixth year. Activities will focus on care techniques needed to support the growth and development of children at each age. Other topics of study related to children’s growth will include health, safety, nutrition, and relationship of learning through play. The “Baby Think It Over,” the assimilated baby, will be one of the projects offered in this course. This course is recommended for any student that may be interested in a career working with children.
Fine & Performing Arts and Consumer Science Department

TEACHING CHILDREN IN THEIR WORLD — 630
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Teaching Children in Their World fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course is designed for those students who are planning to pursue a career working with children. It is very strongly recommended for any student interested in a career in the teaching field. The class will use a variety of techniques to learn about the four areas of child development, personality, discipline, safety, and nutrition along with appropriate learning activities to simulate growth and development. Students will have the opportunity to practice their skills with children ages 3-5 years old in our preschool laboratory: RVRHS Playschool. Students will research, plan, and prepare activities for the children in a preschool typesetting that will simulate the four areas of development. Students will also be responsible for preparing nutritious snacks and providing suitable guidance and supervision to the children during the laboratory time.

INDEPENDENT LIFESTYLE — 640
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
Independent Lifestyle fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. Living on your own takes on new meaning as you learn how to deal with your financial obligations, find a place to live, and experience day-to-day living responsibilities. In addition to learning banking and consumer skills, the student will be taught coping skills to deal with life’s challenges and unexpected emergencies. Learn other practical skills needed to maintain an independent status: buying a car, shopping for insurance, filing income taxes, grocery shopping, and clothing care. Hands-on experiences, as well as computer lab time and projects, are requirements for this course.
The Business Department course offerings are intended to provide students with a foundation in the basic principles governing financial citizenship. Students will gain an understanding of:

- Enforceability of laws and regulations that affect business operations and transactions
- Concepts, strategies, and systems used to obtain and convey ideas and information
- Economic principles and concepts fundamental to business operations
- Processes and skills to identify innovative ideas and methods to create a new project or venture
- Approaches used to maintain, monitor, control, and plan the use of financial resources
- Tools needed to access, process, maintain, evaluate, and disseminate information
- Techniques that businesses use to create exchanges and satisfy organizational objectives
- Strategies used to explore, obtain, and develop in a business career
- Factors that affect the ability to plan, control, and organize an organization/department

Completion of a course in financial literacy is a New Jersey requirement for graduation. Students are highly encouraged to complete the Managing Your Personal Finances online course. Taking the web-based course allows students the opportunity to enroll in one or more of the 9-week Business course offerings as an elective before graduating.

MANAGING YOUR PERSONAL FINANCES (ONLINE) — 461
(College Preparatory)
Grade Level: 9-12
Credits: 2.5 (PASS/FAIL)
Length: 9 weeks
NOTE: This course ONLY fulfills the NJ State graduation requirement for Financial Literacy. Managing Your Personal Finances is an independent study online course that does NOT fulfill the Career and Vocational-Technical Education (VOC) graduation requirement. This course is scheduled only during specific marking periods within the school year.

Students will learn the basic principles required to successfully manage their financial resources during their lifetime. Students must have reliable internet connectivity to access the course website from their home or by arrangements to use school-based technologies. Students must achieve a score of 80% or greater on EACH module to be credited with a passing grade for the course.

PRINCIPLES OF FINANCE — 466
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
NOTE: This course fulfills the NJ State graduation requirement for Financial Literacy. Principles of Finance can fulfill the 2.5 credits of Career and Vocational-Technical Education (VOC) graduation requirement only if taken in addition to the online Managing Your Personal Finances course.

Students will gain an understanding of personal banking accounts, applying for credit and loans, and purchasing or renting a home/apartment. Additionally, students will develop skills needed when searching for a job, preparing federal and state tax returns, and creating a budget as part of a personal long-term financial plan.

BUSINESS STRATEGIES — 471
(College Preparatory)
Grade Level: 10 - 12
Credits: 5
Length: 18 weeks
Business Strategies fulfills the Career and Vocational-Technical Education (VOC) graduation requirements. This project-based business course will develop student understanding and skills in such areas as entrepreneurship, financial analysis, and human resources management. Students will acquire an understanding of the process for opening and successfully operating a business. Students will conduct situational, market, and competitive analyses; select a target market; develop a business plan; control
Business Department

use of resources; and evaluate the results of their business effort. Throughout the course, students use decision-making and problem-solving skills that emphasize professionalism in business endeavors and set a standard for creativity and innovation. Students will assume various roles in the operation of Creative Designers, a classroom-based desktop publishing business. During their assigned specialty student prep, students are required to complete various assigned tasks associated with the marketing, manufacturing, and sales of the product lines of Creative Designers and/or with the operation of the RVRHS school store under the supervision of a staff member.

BUSINESS ECONOMICS — 425
(Honors)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
Prerequisite: Algebra II
Business Economics fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) or the Financial Literacy graduation requirements. Students will gain an understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. The concepts of supply and demand, opportunity costs, recession, the business cycle, investment decisions dealing with the allocation of scarce resources, and economic growth will be presented in this course. This course is highly recommended for students planning to pursue any business-related career path.

FUNDAMENTALS OF ACCOUNTING — 429
(College Preparatory)
Grade Level: 10-12 (Grade 9 students enrolled in Geometry will be considered)
Credits: 2.5
Length: 9 weeks
Fundamentals of Accounting fulfill 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. Students will acquire the knowledge and skills necessary for understanding the basic elements and concepts of double-entry accounting systems using hand calculations and software. The course covers analysis of business transactions, entering transactions in journals, posting to ledgers, compiling end-of-period financial statements, preparing closing entries, and managing cash.

SPORTS & ENTERTAINMENT MARKETING — 468
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
Sports & Entertainment Marketing fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This course will introduce students to the key concepts and practical consideration that apply to marketing sports and entertainment events. Target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and event planning are among the topics discussed in this course.

EXPLORING BUSINESS & MARKETING — 469
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
Exploring Business & Marketing fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. Students will be introduced to the fundamental concepts organizational communication, human resources management, entrepreneurship, accounting, finance, and leadership.
UNIVERSAL DESIGN FOR WEB-BASED LEARNING — 448
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Universal Design for Web-Based Learning fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. Universal design for learning (UDL) is a framework used to improve and optimize how to convey information based on the science of how individuals learn through engagement, representation, action, and expression. Students will develop the knowledge and hands-on skills to produce, edit, publish, and maintain a website following UDL principles.

FASHION RETAILING AND MERCHANDISING — 455
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Fashion Retailing and Merchandising fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. Students will gain an understanding of visual merchandising; store front development, marketing and branding, retail positioning, and buying and selling product lines. The course will also introduce students to basic merchandising strategies, special events promotion, public relations, product development, and merchandising math. Careers in the fashion industry will be discussed from a perspective of competitive business principles.

PROFESSIONAL COMMUNICATIONS — 463
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Professional Communications fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. This introductory course will provide students with the skills to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels. Competency will be developed in oral, written, interpersonal, technological, and employment communication. Students will gain an appreciation of the impact of various presentation technologies including MS Office and Google applications needed to advance in a business career.

HOSPITALITY MANAGEMENT — 450
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Hospitality Management fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. This course will address the evolution of this growing industry including such topics as destination geography, domestic and international travel by air, sea, and railway, car rentals, hospitality and tourism, corporate conferences, and marketing and sales. The students will gain an understanding of the different sources of education and pathways for careers in the hospitality/tourism industry.

BUSINESS LAW — 464
(Honors)
Grades Level: 11, 12
Credits: 2.5
Length: 9 weeks
Business Law fulfills 2.5 credits of the Career of the Vocational-Technical Education (VOC) graduation requirements. This course is designed to provide students with a basic foundation of the law as it applies in a business setting, specifically related to the enforceability of contract law. Students will gain an
understanding of the laws of agency, bailment, insurance, and employment in addition to current trends in trade regulations.

MARKETPLACE DIGITAL LITERACY — 426  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Marketplace Digital Literacy fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirements. Students will gain an understanding of the appropriate and responsible use of mobile and stand-alone computing devices as well as emerging communication technologies. Acceptable use policies, terms of service, and software agreements will be discussed with respect to current laws. Students will examine issues concerning the appropriate, safe, and responsible use of social media, online child protection, and internet plagiarism (creative commons and digital millennium copyright act). Case studies will be presented on the topics of digital piracy, gaming, computer hacking, online financial transactions, and virus/identity theft protection.

GAMING DESIGN USING LITE-C PROGRAMMING — 695  
(Honors)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Gaming Design Using Lite-C Programming fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This STEM-based course is intended to introduce students to the Lite-C programming language within a script and model editor used for gaming design. Students will become familiar with such core topics as variables, console input and output, functions, vectors, programming logic, pointers, panels, windows, levels, and object-oriented design and methodologies. Fundamental graphics concepts including sprites, model development/animation, and masking will be presented as part of the development of a fully functional game complete with physics and storyboards. Students will evaluate policies on hacking and disclosure, and the dissemination of personal information, as well as the appropriate use of copyrights, fair use, and Creative Commons as part of an examination of the impact of cybercrimes on society.

INTRODUCTION TO SOFTWARE DESIGN — 696  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisites: Concurrent enrollment in or completion of Algebra 1.  
Introduction to Software Design fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. The course introduces the fundamental concepts of programming to create simple apps for mobile devices using MIT App Inventor®. Basic software engineering principles and programming skills using basic elements of text-based programming in Python® are explored in the course. Students will become familiar with simple data types, control structures, array and string data structures, basic algorithms, testing and debugging. Students will acquire modeling and problem-solving skills applicable to programming and other courses of study in computer science and applied technologies.
The English Department offers a required and an elective program. As established by the Board of Education and the State of New Jersey, each student at RVRHS must complete the following requirements in order to qualify for graduation. They include successful completion of English I, II, III and IV. If a student fails English I, English II or English III, he/she should make up the deficiency before proceeding to the next course.

Students are also encouraged to select from the English elective offerings when making choices for optional courses on their schedule. Students taking Honors or AP level courses will have a summer assignment that will be available in June and due in August.

**ENGLISH I — 011**  
(Conference Preparatory)  
Grade Level: 9  
Credits: 5  
Length: 18 weeks  
English I is the first course in a four-year English program geared to the student who seeks a rigorous course of study and plans to attend a four-year college program. It is aimed at promoting awareness of school, community, self, and the world through reading and responding, viewing, listening, speaking, and writing. In addition, a variety of reading texts, literary genres, vocabulary, grammar instruction, and NJ State High School Assessment literacy skills are introduced and/or reinforced.

**ENGLISH I — 013**  
(Honors)  
Grade Level: 9  
Credits: 5  
Length: 18 weeks  
Prerequisites: Teacher recommendation and successful completion of the Honors Readiness Assessment.  
English I Honors is recommended for students who are committed to participating in RV’s four-year honors program. This challenging course provides the student with the communication skills necessary for a rigorous four-year college program. Substantial outside reading, exceptional writing ability, and higher order thinking skills are required. In addition, a variety of reading texts, literary genres, vocabulary, grammar instruction, and NJ State High School Assessment literacy skills are introduced and/or reinforced.

**ENGLISH II — 020**  
(Honors)  
Grade Level: 10  
Credits: 5  
Length: 18 weeks  
Prerequisites: English I, Teacher recommendation  
English II Honors is the second part of a four-year English program designed to provide an honors student with the communication skills necessary for a rigorous college program. Substantial outside reading and writing assignments, exceptional writing ability, and higher order thinking skills are required for this course. In addition to the reading, writing, speaking, listening, and viewing skills that are developed through an integrated study/practice of skills and common themes, the study of research culminates in a formal research paper. Successful completion of a summer assignment is required for this course. It will be available on the RV website and delivered to the sending districts in mid-June.
ENGLISH II — 021  
(College Preparatory)  
Grade Level: 10  
Credits: 5  
Length: 18 weeks  
Prerequisites: English I  
English II is designed as an integrated study/practice of skills and common themes within the study of American Literature. It is aimed at promoting awareness of school, community, self, and the world through reading and responding, reviewing, speaking, listening, and writing. A variety of additional reading texts and literary genres, as well as a formal research paper, are introduced. NJ State High School Assessment language arts literacy skills are reinforced in preparation for testing.

ENGLISH III — 030  
(Honors)  
Grade Level: 11  
Credits: 5  
Length: 18 weeks  
Prerequisites: English II, teacher recommendation  
English III Honors is the third part of a four-year English program designed to provide an honors student with communication skills necessary for a rigorous college program. Substantial outside reading and writing assignments, exceptional writing ability, and higher order thinking skills are required. In addition to the reading, writing, speaking, listening, and viewing skills that are developed through an integrated study/practice of skills and common themes, the study of research culminates in a formal research paper. Students will also investigate appropriate test-taking strategies for the NJ State High School Assessment, SAT, and AP tests. Successful completion of a summer assignment is required for this course. It will be available on the RV website and to the students in mid-June. A mandatory assessment may be administered during the first week of school.

ENGLISH III — 031  
(College Preparatory)  
Grade Level: 11  
Credits: 5  
Length: 18 weeks  
Prerequisite: English II  
English III is designed as an integrated study/practice of skills and common themes in British Literature. It is aimed at promoting awareness of school, community, self, and the world through reading and responding, reviewing, speaking/listening, and writing. There is additional emphasis on NJ State High School Assessment language arts literacy skills.

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION — 032  
(Advanced Placement)  
Grade Level: Available to 11th graders as English course (alternative to 030) and to 12th graders as elective  
Credits: 5  
Length: 18 weeks  
Prerequisites: Students must have successfully completed English II, teacher recommendation  
Advanced Placement English Language and Composition course is a college-level program that introduces students to a wide range of expository prose, in order to broaden their scope of rhetorical ideas and deepen their awareness of the power of language. The course is designed to meet the rigorous requirements of a college level writing class and includes expository, analytical, personal, and argumentative texts from a variety of authors and historical contexts. These works provide examples of prose writings that students can emulate in their own writing experiences as they discover and create their own style and voice. Successful completion of a summer assignment is required for this course. It will be available on the RV website and to the students in mid-June. A mandatory assessment may be administered during the first week of school.
ENGLISH IV ADVANCED PLACEMENT LITERATURE AND COMPOSITION — 040
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: Students must have successfully completed English III, teacher recommendation
English IV Advanced Placement Literature and Composition emphasizes accelerated, advanced, and enriched study of world literature, college-level research, and composition. Both thematic and genre-centered approaches to literature are studied, and much of the material is individually prescribed and taught. Substantial self-paced reading, research, analysis, and composition outside the classroom are required. Students are strongly encouraged to take the English Advanced Placement examination. College Accelerated program (CAP) credit is available. Successful completion of a summer assignment is required for this course. It will be available on the RV website and to the students in mid-June. A mandatory assessment may be administered during the first week of school.

ENGLISH IV WORLD LITERATURE — 041
(College Preparatory)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: English III
This course integrates study and practice skills in writing and usage, reading, speaking, listening, viewing, and research. The themes of identity and change as related to where the students are now, what is around them, and where they are going from here serve as the focus for the implementation of the above skills. Research strategies focus on the Senior Project, an intensive, inquiry-based assignment that spans the entire length of the course. Selections from world literary works with an emphasis on time periods, authors, and genres are used to support the course themes. Literature uses the normal means of communication — language, images, symbols, codes, stories — but uses them with more complexity and subtlety than is normal in everyday communication. “As well, it avails itself of a certain sensibility we have to such things as form, sensual experience, rhythm, repetition, contrast, which sensibility we call the ‘aesthetic.’” (Dr. John Lye, English Language and Literature professor at Brock University)

9-WEEK ELECTIVE COURSES
Students having a genuine interest in these areas may take the following courses in addition to the required English courses.

YEARBOOK PRODUCTION — 052
(Pass/Fail)
Grade Level: 10-12
Credits: 10
Length: 36 weeks
Prerequisites: Students are required to obtain approval from the yearbook advisor
Yearbook Production is a course which provides students with the opportunity to learn and practice advanced publication and journalistic skills: writing, photography, graphics, and layout.

FILM APPRECIATION — 045
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Film Appreciation is a course which provides an overview of the various types of films that have been identified as important components in the art of cinema. Students are exposed to both the artistic and technical aspects of classic and contemporary film. Aspects of production and technical contributions are
explored and incorporated into the viewing of the selected films. The American Film Institute’s Top 100 Films list serves as the source for films for the course of study.

**SCIENCE FICTION — 046**  
*(College Preparatory)*  
**Grade Level: 9-12**  
**Credits: 2.5**  
**Length: 9 weeks**  
Science Fiction is a course which examines the literature, art, and media of science fiction throughout the nineteenth and twentieth century. Students will recognize the influences and critical attributes of science fiction literature through analysis of various works of the genre. They will also see the study of science fiction as an opportunity to find solutions for contemporary problems by viewing them through alternative lenses.

**SPORTS JOURNALISM: BETWEEN THE LINES — 048**  
*(College Preparatory)*  
**Grade Level: 10-12**  
**Credits: 2.5**  
**Length: 9 weeks**  
This dynamic course is for the sports enthusiast! Upperclassmen will explore sports scandals and breaking news stories with an analytical view into the local and national sports scene. Students will prepare written pieces of current/local events, research current sports issues, synthesize documentaries, conduct an outside field study, and complete a group project. The course will include guest speakers and discussions of career fields in sports journalism.

**SAT PREP — 005**  
*(College Preparatory)*  
**Grade Level: 11-12**  
**Credits: 2.5**  
**Length: 9 weeks**  
This elective for students is designed to assist students with the verbal portion of the SAT. Students will be taught test-taking techniques, along with methodologies to satisfactorily complete the test. Skills such as building vocabulary, reading inferentially, context clues, and essay writing will be addressed in the course. Copious practice activities to review for the aptitude assessment will be provided as part of instruction. *The course will include a discussion of the college selection process.*

**CREATIVE WRITING — 044**  
*(College Preparatory)*  
**Grade Level: 9-12**  
**Credits: 2.5**  
**Length: 9 weeks**  
Creative Writing is a course that emphasizes the development of skills in the creation and study of prose, drama, and poetry in an intensive workshop setting. Students are required to write in a variety of genres and to demonstrate a facility for giving and receiving constructive criticism. Students will demonstrate a better understanding of, and facility with, the revision and rewriting process through mastery of editing skills, including peer-editing. Within each unit, the student will read and analyze published works. Through this exploration, students will gain a deeper understanding of the ways they can use the elements of good storytelling—voice, point of view, characterization, dialogue, description, setting, and rhythm—to bring any story to life, whether true or imagined. Ultimately, through the use of portfolio, the course culminates in presentations of original manuscripts of poetry, prose, and/or criticism that demonstrate the student’s growth.
JOURNALISM/HOLLY SPIRIT SPECIALTY STUDENT PREP
This specialty prep is available who students who want to apply their analyses of current events and issues to the production and publication of journalistic writing. Writing and reporting for The Holly Spirit and collaborating with the adviser on plans for a new journalism course are among the activities of this student prep.
As established by the Board of Education and the State of New Jersey, each student at RVRHS must complete certain requirements in mathematics in order to qualify for graduation. They include successful completion of 5 credits in Math including Algebra I and Geometry and a third year of math.

Every freshman must be enrolled in a mathematics course. If they intend to major in mathematics or one of the sciences, they should take as many math courses as possible. The mathematics program at RV is a challenging program designed to meet the needs of all students. All courses are assigned a level of difficulty in one of four categories. In structuring these levels the following criteria has been established:

1. Complexity of content and pace of instruction
2. Difficulty and amount of reading material
3. Abstract reasoning and problem solving skills
4. Integration of previously learned material
5. Quality and frequency of homework and independent assignments
6. Level of mastery of course proficiencies

To advance from a College Preparatory to an Honors level course, a student must earn an “A” in the course and obtain the recommendation of the teacher.

A Course Request Waiver Form is available to a student who does not meet the minimum grade requirements in a course and has not received the departmental recommendation. A student enrolling in a course using a waiver will not be permitted to drop the course or change the level for the duration of the semester.

All level courses require specific tasks (review) to be completed during the summer recess due on the first full class meeting day for the course. An assessment will be administered within the first week of the course. This assignment can be found on the RV website.

Students that are enrolled in Algebra I, Geometry, or Algebra II must purchase a TI-84 Plus graphing calculator which will be used extensively in these courses.
Mathematics Department

ALGEBRA IA — 185
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
This course is the first half of an Algebra 1 course. It is designed for the student that is seeking to improve his/her skills and to prepare for college and career readiness. It builds upon arithmetic skills and investigates the properties of real numbers. It will provide a solid foundation for further study in mathematics in advanced courses by helping students develop computational, procedural, and problem-solving skills. Students will learn to use rational number properties and variables, to evaluate and write algebraic expressions, and to solve equations. Students will learn to write, solve, and graph linear equations, and to solve systems of equations. Students will learn to translate real-life situations to mathematical models and obtain solutions using statistics and probability investigations.

ALGEBRA IB — 186
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra IA
This course is a continuation of the Algebra IA course. It will provide practice of patterns and more advanced algebraic topics. It is designed for the student that is seeking to improve his/her skills and to prepare for college and career readiness. It will provide a solid foundation for further study in mathematics in advanced courses by helping students develop computational, procedural, and problem-solving skills. Students will learn to solve linear inequalities and simplify radical expressions. Students will learn to simplify polynomial expressions and factor polynomials. Students will learn to write, solve, and graph quadratic and exponential equations. Students will learn to translate real-life situations to mathematical models and obtain solutions using statistics and probability investigations.

ALGEBRA I — 190
(College Preparatory)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
This course is designed for the student that is seeking to improve his/her skills and to prepare for enrollment in a four-year college program. It builds upon arithmetic skills and investigates the properties of real numbers. It will provide a solid foundation for further study in mathematics in advanced courses by helping students develop computational, procedural, and problem-solving skills. Students will learn to use rational number properties and variables, to evaluate and write algebraic expressions, and to solve equations. Students will learn to write, solve, and graph linear, exponential, and quadratic equations, and to solve systems of equations and inequalities. Students will learn to perform operations and simplify radical and exponential expressions. Students will learn to perform operations and simplify radical and exponential expressions. Students will learn to simplify polynomial expressions and factor polynomials. Students will learn to translate real-life situations to mathematical models and obtain solutions using statistics and probability investigations.

ALGEBRA I — 189
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
The course is designed for the academically talented mathematics student who has had experience with Algebra concepts at the middle school level. The course offers an accelerated high school approach to traditional topics offered in Algebra and an opportunity to acquire the skills required for future work in advanced level mathematics. It will provide a solid foundation for further study in mathematics in advanced courses by helping students develop computational, procedural, and problem-solving skills.
Mathematics Department

Students will learn to use rational number properties and variables, to evaluate and write algebraic expressions, and to solve equations. Students will learn to write, solve, and graph linear, exponential, and quadratic equations, and to solve systems of equations and inequalities. Students will learn to perform operations and simplify radical and exponential expressions. Students will learn to simplify polynomial expressions and factor polynomials. Students will learn to translate real-life situations to mathematical models and obtain solutions using statistics and probability investigations.

GEOMETRY — 217
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I 190 or Algebra IB 186
This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. In this course, definitions, postulates, theorems, and properties of Euclidean geometry will be developed. They will develop these properties within a system of reasoning called deduction. Algebraic applications of geometric concepts will be applied. This course takes a hands-on approach to geometry.

GEOMETRY — 218
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. In this course, definitions, postulates, theorems, and properties of Euclidean geometry will be developed. Algebraic applications of geometric concepts will be applied. Proofs involving deductive reasoning are emphasized. Right triangle trigonometry is an important component to the course. Through mathematics, students communicate, make connections, reason, and represent the world quantitatively in order to pose and solve problems.

ALGEBRA II — 200
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I 190 or Algebra IB 186
This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. This course is a continuation of Algebra IB - 186 or Algebra I - 190. It will be less rigorous than Algebra II - 201 and is designed for those students who had difficulty in Algebra I. Solving and graphing of various functions, such as linear, absolute value, quadratic, rational, polynomial, exponential and logarithmic functions will be studied. Emphasis will be placed on modeling real world data with mathematical functions and using these models to make predictions.
ALGEBRA II — 201
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I 190 and Geometry 217 or 218
This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. This course is a continuation of Algebra. It is less rigorous than Algebra II Honors. Solving and graphing of various functions, such as linear, absolute value, quadratic, rational, polynomial, exponential, logarithmic and trigonometric functions will be studied. Emphasis will be placed on modeling real world data with mathematical functions and using these models to make predictions.

ALGEBRA II — 203
(Honors)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Honors Geometry 218 and teacher recommendation
This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. This course is a continuation of our Honors level courses. It will be a rigorous study of Algebra II. Solving and graphing of various functions, such as linear, absolute value, quadratic, rational, polynomial, exponential, logarithmic and trigonometric functions will be studied. Emphasis will be placed on modeling real world data with mathematical functions and using these models to make predictions.

FOUNDATIONS OF COLLEGE MATH — 168
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II 201 and Geometry 217
This course is designed for the student that is preparing for enrollment in a two or four-year liberal arts college program. It begins with a review of Algebra I and Algebra II topics such as solving, writing, and graphing linear and quadratic equations and inequalities; rational and radical expression; and equations. Students also review computational, procedural, and problem-solving skills. The student learning outcomes of the college math course are as follows: students will demonstrate a mastery of the language of sets, solve counting applications using permutation and combinations, compute probabilities, (including conditional probabilities) use principles of sets and counting, identify the use and misuse of statistics in the real world, and create and interpret various methods of statistical display.

PRE-CALCULUS — 221
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II 201 or 203 and Geometry 217
Pre-Calculus closely examines systems of equations and inequalities, functions (including polynomial, rational, logarithmic, exponential, and trigonometric), analytical geometry and trigonometry, limits, sequences and series, and the polar coordinate system. Graphing calculators are used regularly to teach and assess topics presented in the course.
Mathematics Department

PRE-CALCULUS — 222
(Honors)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Honors Algebra II 203 and teacher recommendation
Honors Pre-Calculus is an advanced mathematics course that uses meaningful problems and appropriate technologies to build upon previously learned mathematical concepts with the purpose of preparing students for Calculus. Pre-Calculus closely examines systems of equations and inequalities, functions (including polynomial, rational, logarithmic, exponential, and trigonometric), analytical geometry and trigonometry, limits, sequences and series, and the polar coordinate system. Graphing calculators are used regularly to teach and assess topics presented in the course. Upon successful completion of the course, students will be prepared to take Calculus and other higher-level mathematics courses.

ADVANCED PLACEMENT CALCULUS (AB) — 223
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Grade of “C” or above in Pre-Calculus 222 and teacher recommendation
Advanced Placement Calculus Level AB is the study of differential and integral calculus as treated on a collegiate level. This course is for serious students who will be majoring in math or science in college. College Accelerated Program (CAP) credit is available for students who obtain a letter grade of “C” or higher.

ADVANCED PLACEMENT CALCULUS (BC) — 225
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of AP Calculus (AB) 223
Advanced Placement Calculus BC is a continuation of AP Calculus AB. Advanced derivative and integral applications will be taught. This course is for the student interested in a career in mathematics, the sciences, or engineering. College Accelerated Program (CAP) credit is available for students who obtain a letter grade of “C” or higher.

CALCULUS — 228
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Calculus Honors is designed to prepare students for a first-year college Calculus class. This honors course is the study of limits, differential, and integral concepts at an elementary level. This course does not take the place of AP Calculus AB. Students will not be permitted to enter the AP Calculus BC course with the successful completion of this class.
Mathematics Department

STATISTICS — 231
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II 200 or 201
The purpose of the CP Statistics Course is to encourage student awareness of the importance of mathematics in the modern world. This course is an introduction to the study of probability, interpretation of data, and fundamental statistical problem solving. The course will cover basic statistical concepts that will prepare the student to take a college-level statistics course in the future. Students will explore and analyze data by observing patterns or the absence of patterns, interpret information from graphical and tabular displays, apply appropriate statistical models to infer information from data, and learn to use technology in solving statistical problems.

ADVANCED PLACEMENT STATISTICS — 232
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: Year
Prerequisite: Successful completion of Honors Algebra II 203 and teacher recommendation
The purpose of the AP Statistics course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance phenomena. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data.

Students complete a final culminating project during the Spring semester through independent study scheduled as Block 6. The purpose of this project is to give the students the opportunity to demonstrate their understanding of Statistics by formulating a question, designing a study or experiment, collecting and analyzing data, and performing appropriate inferential procedures to answer the original question.
Physical Education Department

Health and Physical Education concentrates on the development of the individuals’ maximum physical potential and their related social, emotional, and intellectual growth. Additionally, the department seeks to instill a sense of self-worth and dignity, social competencies, and safety awareness. Students will gain an appreciation and understanding of specific sports and dances, including their origins, cultural impact and aesthetic values. A truly physically educated student will acquire the skills needed for any lifetime activities and a desire to retain the feeling associated with fitness and exercise.

INTRODUCTION TO PHYSICAL EDUCATION — 069
(College Preparatory)
Grade Level: 9
Credits: 2.5
Length: 9 weeks
This required introduction to physical education course provides incoming freshmen with a comfortable environment to learn fundamentals for basic weight training, team sports, and individual/dual sports while incorporating initiative, cooperative, and team-building activities. Students will learn the basics of weight training that include safety, terminology, proper form and technique, and a variety of muscle-specific exercises.

PHYSICAL EDUCATION — 064
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Physical Education is a comprehensive program designed to include health and skill related activities such as cardiovascular fitness, muscular endurance and strength, flexibility, balance, agility, and coordination activities. These goals will be achieved through mini-units involving individual, team, or lifetime sports activities. Activities include aerobics, badminton, basketball, dance, flag football, street hockey, golf, recreation games, weight room training, soccer, softball, team handball, tennis, and volleyball.

OFFICIATING — 090
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
Prerequisite: Students should have a background in sports and desire an opportunity to officiate Students will be taught the rules, regulations, mechanics, and skills that are necessary to become an official involving specific sports such as softball, baseball, basketball, volleyball, soccer, and track and field. Although these sports will be played and discussed, it is reasonable to expect that the previous experience and knowledge of the class will allow no more than three sports to be covered from the officiating point of view. Priority for the order of sports to officiate is based on the background knowledge of students as well as the area available for the class to officiate. The credits for this course can be applied to a student’s PE requirement.

PERSONAL LIFE DESIGN — 097
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Personal Life Design will place an emphasis upon developing and maintaining healthy lifestyle habits on an individual basis. Its focus will be geared to overall wellness, based on developing knowledge of nutrition, positive emotional development, weight management, and training habits. Students will explore many relevant and current topics that affect their health and wellness. Students will dress appropriately
and participate for 60 minutes of continuous power walking and/or circuit training or other aerobic activities. The credits for this course can be applied to a student’s PE requirement.

**FLEX & CORE FOR ATHLETES — 094**  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
In order to support a healthy, active lifestyle students will acquire the knowledge and apply the skills needed to perform proper stretching techniques to prevent pain and injury for active participation in personal health-related activities or sports. Stress management skills will be presented to assist individuals to cope with stress in different types of emotional situations. Students will learn how individual and/or group pressure to be successful in competitive activities can have a positive or negative impact on their performance and well-being. Self-initiated behaviors that promote personal and group success will be discussed including safety practices, adherence to rules, etiquette, cooperation, teamwork, ethical behavior, and positive social interaction. The credits for this course can be applied to a student’s PE requirement.

**YOGA & MEDITATION — 092**  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
This is a physical education course that provides students with an alternative to the current course offerings. In this class, students will dress appropriately and then participate for 60 minutes of continuous cardiovascular exercise. Students will be given the opportunity to increase their flexibility, cardiovascular endurance, muscular strength, and muscular endurance through yoga activities and circuit training. Students will also actively engage in guided meditation and relaxation techniques which have been proven to help reduce stress, anxiety, increase concentration, and build self-confidence, among many other things. The credits for this course can be applied to a student’s PE requirement.

**ADVANCED YOGA & MEDITATION — 093**  
(College Preparatory)  
Grade Level: 11, 12  
Credits: 2.5  
Length: 9 Weeks  
Prerequisite: Grade of “A” in Yoga & Meditation  
Advanced Yoga & Meditation will emphasize deepening awareness of the body and an understanding of alignment principles. Students must dress and participate for 60 minutes of continuous vigorous cardiovascular exercise and be able to perform the Sun Salutation series. Movements will flow more compared to those introduced in beginning classes as part of an intensive workout. Knowledge of the basic poses is assumed as variations in posture and breathing practices are added to deepen the experience. Students will be given the opportunity to increase their flexibility, cardiovascular endurance, and muscular strength and endurance through advanced yoga activities and circuit training. Students will also actively participate in guided meditation and relaxation techniques, which have been proven to help reduce stress and anxiety, increase concentration, and build self-confidence. The credits for this course can be applied to a student’s PE requirement.
Physical Education Department

FITNESS I AND HEALTH I — 065
(College Preparatory)
Grade Level: 9
Credits: 2.5
Length: 9 weeks

Fitness I
The main topic for this course is lifestyles for fitness and wellness. Subtopics include successful completion of the Presidential and Nation's Physical Fitness Tests, personal fitness, mental/emotional and social wellness, stress and risk factors, and the health-related components. Methods of instruction include lecture, PowerPoint presentations, note taking, films, small group discussions, debates, projects, and homework assignments.

Health I
The main topic for this course is abstinence. The curriculum is designed to provide the student with a foundation of information for making healthy lifestyle choices and to provide an understanding of how poor choices can lead to consequences that affect their lives and future. Subtopics include abstinence, sexuality, commitment and family, reproductive systems of the male/female, pregnancy/labor/childbirth, teen parenting contraceptive methods, and sexually transmitted infections. Methods of instruction include lecture, PowerPoint presentations, note taking, films, small group discussions, debates, projects, and homework assignments.

FITNESS II AND DRIVER’S EDUCATION — 075
(College Preparatory)
Grade Level: 10
Credits: 2.5
Length: 9 weeks

Fitness II
The fitness portion of this class will focus on designing a personal fitness program. The F.I.T.T. Principle will be applied to the health related components including cardiovascular endurance, muscular strength and endurance and flexibility. Students will be able to design their own fitness program in order to improve any, or all of the health related components. In conjunction with the classroom portion, the performance of fitness assessments will allow students an opportunity to enhance their overall levels of fitness using the Fitness Gram reporting system.

Driver Education
The purpose of this course is to develop skills and mind-sets, which will enable students to develop an awareness of the social responsibilities necessary for the safe operation of a motor vehicle on our highway system and the development of positive driving skills. Topics covered include the New Jersey driver license system, New Jersey driver testing, driver responsibility, safe driving rules and regulations, defensive driving, drinking, drugs and health, driver privileges and penalties, sharing the road with others, vehicle information and driver safety. Methods of instruction include lectures, note-taking, cooperative learning strategies, discussion of topics found in the New Jersey State Driving Manual, and student projects. Grading procedures consist of tests, quizzes, completion of class assignments/projects, and passing the State Driving Test. Upon passing, students will receive the waiver card/blue score card which states that the student has passed the written test at school and therefore does not need to take the written test again by the DMV.

Note: All sophomores must enroll for physical education in PE II — 079.
Physical Education Department

FITNESS III AND HEALTH III — 085
(College Preparatory)
Grade Level: 11
Credits: 2.5
Length: 9 weeks

Fitness III
The Fitness portion of this class focuses on nutrition, along with the eleven fitness tests from the National Fitness Gram Book. The Nutrition Unit includes topics concerning the six essential nutrients, reading food labels, the food guide pyramid/my food plate, body types, weight management, and eating disorders. The Fitness Gram is a comprehensive health-related fitness activity assessment scored using criterion-referenced standards that are age and gender specific and established based on how fit children need to be for good health. The Fitness Gram tests include the pacer, 600 yard run, the mile run, the shuttle run, flexed arm hang, modified pull-up, curl-ups, push-ups, back-saver sit and reach, trunk lift, and the long jump.

Health III
The Health portion of this class focuses on four different units including Healthy Behaviors (health risks, heredity issues, and life expectancy), Emotional and Mental Health, Stress and Coping, and Alcohol/Tobacco/Illegal Drugs and Drug use. A comprehensive final assessment is given on these units. The students learn through lecture, note-taking, smart notebook presentations, cooperative learning strategies, and class discussions.

FITNESS IV AND HEALTH IV — 095
(College Preparatory)
Grade Level: 12
Credits: 2.5
Length: 9 weeks

Fitness IV
The fitness portion of this class focuses on fitness as a lifetime goal, changing personal fitness goals, safety and injury prevention, choosing fitness professionals and products, and training workouts/programs. In conjunction with the classroom portion is the fitness testing, which allows students a chance to try their best at achieving national standards in physical fitness.

Health IV
The Health IV curriculum includes Blood-Borne Pathogen 1-Year Certification, First Aid 3-Year Certification, Adult/Child/Infant CPR 1-Year Certification, and CPR/AED for the Professional Rescuer.

The CPR/AED for the Professional Rescuer course is designed to teach professional rescuers (those with a duty to respond) the skills needed to respond appropriately to respiratory and cardiac emergencies. It provides information to recognize and care for breathing and cardiac emergencies, two-rescuer CPR, use of resuscitation mask and bag-valve mask, as well as how to use the Automated External Defibrillator. For public safety personnel, athletic trainers, lifeguards, emergency response team members, first aid station members, and health care professionals.

Emergency Response is a comprehensive course designed for training first responders. The course follows the 1995 US DOT First Responder National Standard Curriculum and meets ECC Guidelines. CPR/AED for the Professional Rescuer teaches students to respond to breathing and cardiac emergencies in adults, children, and infants; use an AED on an adult or child victim of cardiac arrest; and use personal protective equipment to stop blood-borne pathogens and other diseases from spreading. (two year certification)
DANCE TECHNIQUE I — 061
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Dance Technique I is an elective course that enables students to develop basic knowledge and skills in jazz, modern, hip-hop, and swing. They will learn the basic techniques of these styles and choreograph moves from these genres. Students will also analyze various dance videos. The credits for this course can be applied to the PE requirement for students in grades 10-12. **Any ninth grade student enrolled in this course will receive elective credit since all ninth graders must complete Introduction to Physical Education (069).**

DANCE TECHNIQUE II — 062
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
**Prerequisite: Dance Technique I**
Dance Technique II is an elective course that enables students to develop basic to intermediate knowledge and skills in jazz, ballet, tap, and kick. They will learn the basic to intermediate techniques of these styles and choreograph moves from these genres. Students must be prepared to choreograph and perform a solo dance in front of the class. Participation in a public dance performance is also a requirement. **The credits for this course can be applied to a student’s PE requirement.**

DANCE TECHNIQUE III — 063
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
Length: 9 weeks
**Prerequisite: Dance Technique II, teacher recommendation, audition**
Dance Technique III is an advanced-level course that enables students to develop skills in jazz, ballet, lyrical, and choreography. Students must be prepared to choreograph and perform solo dances in front of the class. Participation in a public dance performance is also a requirement. Auditions will be held during quarter four of each school year. **The credits for this course can be applied to a student’s PE requirement.**

STRENGTH & CONDITIONING — 082
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
This course provides students with an alternative to the current department offerings. Students will dress and participate for 60 minutes of continuous aerobic and anaerobic exercise. Students will have an opportunity to increase their flexibility, cardiovascular endurance, muscular strength, and muscular endurance through weight training, calisthenics, and plyometric activities. Students will actively engage in guided stretching and muscle recovery, which have been proven to help reduce stress, increase athletic performance, decrease injury, and build self-confidence. **The credits for this course can be applied to a student’s PE requirement.**
OUTDOOR FITNESS & ADVENTURE ACTIVITIES — 071
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
This course introduces the concepts of initiative, cooperation, and trust. Students will have an experiential opportunity to explore how the aforementioned skills are relevant, not only within fitness and sport, but also relatable throughout life. Students will participate in unique activities apart from the more common “team sports” and will be provided a new, unique opportunity to learn teamwork and leadership skills through adventure activities. While team and individual/dual sports, usually the center of physical education courses, are essential for development, this course will expose students to new activities and skill sets that can be accessed in future experiences. The credits for this course can be applied to a student’s PE requirement.

CARDIO BOOT CAMP — 070
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
This course provides students with an alternative to the current department offerings. Students will dress and participate for 60 minutes of continuous vigorous cardiovascular exercise. Students will have the opportunity to increase their flexibility, cardiovascular endurance, muscular strength, and muscular endurance through advanced cardio activities. The credits for this course can be applied to a student’s PE requirement.
Physical Education Department

Naval Junior Reserve Officers Training Corps (NJROTC)

The Naval Junior Reserve Officers Training Corps (NJROTC) program is a jointly sponsored U.S. Navy and secondary school citizenship and leadership program for students in grades 9 through 12 authorized by the enactment of Public Law 88-647 and codification in Title 10 U.S.C., Sec. 2031 for the purpose of instilling in students the values of citizenship, service, personal responsibility, accomplishment, self-esteem, teamwork, and self-discipline. In addition to studying naval science and history, students participate in ship-training cruises and field trips. The Unit’s drill team, color guard, academic and physical fitness teams, and athletic groups also compete against other units. Cadets represent the Corp at various local and state official functions, parades, dedications, and other ceremonies. Uniform inspection is scheduled one day per week. The Navy provides a uniform to the student at no cost.

Please note that NJROTC is not a recruiting agent for the Department of Defense.

Students enrolled in NJROTC fulfill the requirements for Physical Education and Health courses with the exception of Health IV and Driver Education.

NAVAL SCIENCE I — 293
(College Preparatory)
Grade Level: 9-12
Credits: 10 (includes Naval Science 5 credits, Health/Fitness 2.5 credits, and PE 2.5 credits)
Length: NJROTC/PE 3 quarters and Health 1 quarter

Open to both males and females, the purpose of this course is to introduce students to the qualities of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. Students will gain an appreciation of American heritage and traditions in addition to the role of sea power in securing the future of the United States. Students will become familiar with the mission, goals, and objectives of the Navy in general and the NJROTC program in particular. Cadets will develop a sense of pride in the organization and members of the local unit. Topics for discussion will include the duties, rights, and responsibilities of informed citizens; the strategic role of the U.S. government and military forces in the world; and the construction of naval vessels and aircraft along with shipboard customs and courtesies. In addition to knowledge of naval science, cadets must also demonstrate confidence and proficiency in basic individual, squad, and company close-order drill.

NAVAL SCIENCE II — 295
(College Preparatory)
Grade Level: 10-12
Credits: 10 (includes Naval Science 5 credits, 2.5 credits Health/Fitness, and 2.5 credits Driver Education taught by certified instructor)
Length: NJROTC/PE 3 quarters and Driver Education 1 quarter

Prerequisite: Successful completion of Naval Science I

Cadets will acquire an overall knowledge and an appreciation for maritime history beginning with an understanding of how sea power influenced the growth of early western civilization. Major events in U.S. Naval history will be discussed beginning with the American Revolution through the Civil War, World War I & II, the Cold War Era, and present-day military engagements. Students will also gain an awareness of maritime geography, oceanography, meteorology, and astronomy as it relates to national resources; landforms; bodies of water; and the study of climate, weather, and the solar system. Cadets will continue to demonstrate leadership and physical fitness plus an understanding of military customs, orienteering, the chain of command, regulations for proper uniform attire and display of the American flag, and the prescribed movements for drills and related exercises. Students are expected to assume responsibilities within the unit by volunteering for staff positions, leading teams of cadets, recommending improvements in operational procedures, and taking initiative in leadership.
NAVAL SCIENCE III — 296  
(College Preparatory)  
Grade Level: 11, 12  
Credits: 10 (includes Naval Science 5 credits, Health/Fitness 2.5 credits and PE 2.5 credits)  
Length: NJROTC/PE 3 quarters and Health/Fitness 1 quarter  
Prerequisite: Successful completion of Naval Science II  
The focus of this third year of naval science is to further develop a working knowledge of the importance of sea power, national security, naval operations, support functions, military and international laws, and the strategic significance of oceans. Discussions will focus upon naval operations, discipline, communications, intelligence gathering, research and development, and logistics. Regular personnel inspections, physical fitness, and close-order drills continue to be a component of the course. Students are expected to assume increased responsibilities within the unit by volunteering for staff positions, leading teams of cadets, recommending improvements in operational procedures, and taking initiative in leadership.

NAVAL SCIENCE IV — 297  
(Honors)  
Grade Level: 12  
Credits: 10 (includes Naval Science 5 credits, 2.5 credits Health/Fitness and 2.5 credits First Aid taught by certified instructor)  
Length: NJROTC/PE 3 quarters and First Aid 1 quarter  
Prerequisite: Successful completion of Naval Science III  
Cadets are expected to become informed and responsible citizens, who promote patriotism, habits of orderliness, precision, and respect for authority within a democratic society. The primary focus of this final year of the NJROTC program is leading by example by carrying out orders and following the chain of command within the Unit. Discussions concern the moral responsibility of military leaders, the basics of effective written and oral communication, the theory of human motivation, positive leadership skills and characteristics, and group dynamics. Instruction includes reference to current events, selected case studies, staff officer assignments and responsibilities, and resources related to careers in the Navy and other branches of the armed services.
Science

Successful completion of three years of a lab-based science courses is required for graduation that includes Biology and two additional semester courses (Environmental Science, Chemistry, or Physics, including AP level courses). These inquiry courses provide students with an understanding of physical phenomenon, the nature and structure of matter, the key features of our environment, and the properties of living organisms. Elective courses include Virtual Astronomy, Weather, Forensic Science, Introduction to Microbiology, Genetics: A Conceptual Approach, and App Development, which do not fulfill the science course requirements for graduation.

All students are required to complete a course in Environmental Science during their freshman year. Students who fulfill specific course prerequisites may concurrently enroll in two or more science courses during a given year.

HONORS ENVIRONMENTAL SCIENCE — 241
(Honors)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I for students in grades 10-12
NOTE: Freshmen enrollment in this course is based upon an evaluation of 8th grade science grades and performance on the 8th Grade Science Assessment.
Honors Environmental Science 241 is a comprehensive lab-based course where students will develop an understanding of environmental issues, including the management of natural resources, the production and use of energy, waste management systems, and the interdependence of ecosystems. This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. Students will be able to distinguish naturally-occurring processes from those believed to have been modified by human interaction or activity such as changes in global climate, the production of ozone, the erosion/deposition of landforms, and the threatened eradication of various species. Students will use scientific, economic, and other data to assess environmental risks and benefits with the understanding that the environment is a dynamic system of interdependent components affected by human activity and natural phenomena. As part of the study of the environment, students will gain an understanding of the structure, dynamics, and geophysical systems of the Earth, including the interrelationships between the geosphere, hydrosphere, and the atmosphere.

GENERAL ENVIRONMENTAL SCIENCE — 243
(College Preparatory)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra IB for students in grades 10-12
NOTE: Freshmen enrollment in this course is based upon an evaluation of 8th grade science grades and performance on the 8th Grade Science Assessment.
General Environmental Science 243 is a lab-based course designed for the student that is seeking to improve his/her skills and to prepare for enrollment in a two- or four-year college program. Students will develop an awareness of environmental issues whether the result of naturally occurring processes or those altered by human activity such as climate change and the threatening of endangered species. Students will explore the environmental risks and benefits associated with society’s need for key resources. As part of the study of the environment, students will also develop an understanding of the structure, dynamics, and geophysical systems of the Earth.
HONORS BIOLOGY — 252
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “B” or above in Honors Environmental Science 241 or “A” in General Environmental Science 243.
Note: Freshmen who fulfill the above requirements during the first semester are eligible to enroll in Honors Biology during the second semester.
The lab-based Honors Biology 252 course emphasizes the application of the scientific method through a comprehensive study of the cycles of matter and energy as it applies to the study of living organisms. This course is intended for students seeking a rigorous course of study in preparation of a four-year college program. Students will gain an understanding of cell structure and function, energy production through photosynthesis, the food web, and the ecological pyramid. Students will learn about taxonomic classification, genetics and heredity, evolution, the nature of DNA, and the role of bacteria and viruses.

GENERAL BIOLOGY — 253
(College Preparatory)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Honors Environmental Science 241 or General Environmental Science 243.
The lab-based General Biology 253 course provides students with an introduction to the scientific processes involved in the study of living organisms. Emphasis is placed on the development of writing skills as well as the use of the scientific method of problem solving. This course is designed for the student that is seeking to improve his/her skills and to prepare for enrollment in a two or four year college program. Students will gain a basic understanding of cell structure and function, energy production through photosynthesis, the food web and the ecological pyramid. Students will be presented with an overview of taxonomic classification, genetics and heredity, evolution, the nature of DNA, and the role of bacteria and viruses.

ADVANCED PLACEMENT BIOLOGY I — 264
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Grade of “B” or above in Honors Biology 252 or “A” in General Biology 253 and teacher approval.
Advanced Placement Biology I is designed to be the equivalent of a college introductory biology course taken by biology majors during the first year of study. Advanced Placement Biology I differs from first year high school biology with respect to the kind of textbook used, the range and depth of topics covered, the type of extensive laboratory work done, and the time and effort required of students. General areas studied will be organic chemistry, cellular biology and metabolism, genetics and biotechnology, evolutionary biology, biodiversity, human anatomy and physiology, embryology and development, and botany. Advanced Placement Biology I aims to provide students with the conceptual framework, factual knowledge, and analytical skill necessary to deal with the rapidly changing science of biology. Students are strongly encouraged to take the Biology Advanced Placement examination. College Accelerated Program (CAP) credit is available.
ANATOMY & PHYSIOLOGY — 287
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “C” or above in Honors Biology 252 or General Biology 253.
The lab-based Anatomy and Physiology course provides students with an in-depth understanding of the human body and its internal workings. This course is intended for the student seeking a rigorous course of study in preparation for a four-year college program. Emphasis is placed on the structures and functions of the 10 organ systems, particularly their mechanics and the maintenance of systems’ balance. Students will investigate the anatomy of the human body by performing animal dissections and will gain an above understanding of human physiology through a variety of laboratory techniques. This course is designed for students with a strong interest in a career in the biological sciences, allied health fields, or medicine or the desire to explore such possible careers.

INTRODUCTION TO COLLEGE CHEMISTRY — 245
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I – 190 or Algebra IB – 186.
Introduction to College Chemistry 245 is a lab-based course where students will gain a conceptual understanding of the structure and behavior of matter. The course is designed for the student seeking to further develop his/her math and problem-solving skills who is preparing for enrollment in a two- or four-year college program as a non-science major. Students will be able to explain the trends evident in the periodic table and how the relationship between the properties of elements plays a role in bonding between atoms. Students will learn the principles governing chemical reactions as well as the properties of matter.

GENERAL CHEMISTRY — 271
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “C” or above in Algebra I – 190 or Algebra 1 Honors – 189.
General Chemistry 271 is a lab-based course designed for the student that is seeking to improve his/her skills and to prepare for enrollment in a two- or four-year college program. Students will gain an understanding of the structure and behavior of matter and the nomenclature of compounds through a study of the classic and quantum theories of the atom. Students will be able to explain the trends evident in the periodic table and how the relationship between the properties of elements plays a role in covalent and ionic bonding between atoms and in the arrangement of atoms in compounds such as metallic and nonmetallic crystals and carbon compounds. Students will be able to explain quantitative relationships between reactants and products, as well as the rate of reactions among atoms and molecules. Students will understand that the rate of a reaction is affected by nature of reactants, concentration, pressure, temperature, and the presence of a catalyst. Students will learn the principles governing chemical reactions, as well as the properties of matter as a solid, liquid, and gas. Students will be required to prepare lab reports after performing experiments that illustrate key concepts through quantitative discovery of confirmed stated principles. Throughout the course, students will apply their mathematical skills to solve practical problems.
HONORS CHEMISTRY — 272
(Honors)
Grade Level: 10 - 12
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “B” or above in Algebra I Honors – 189 or Geometry – 218.
Honors Chemistry 272 is a lab-based course where students will gain an understanding of the composition and structure of matter and the changes it undergoes in nature. Chemistry 272 is designed to prepare the student for AP course work and a four-year college program. Throughout Chemistry 272, students are expected to apply their mathematical skills to solve practical problems and to analyze data from laboratory experimentation. Students will be required to prepare detailed lab reports after performing experiments that illustrate key concepts. Based upon their study of the classic and quantum theories of the atom, students will be able to explain the trends evident in the periodic table and the nature of covalent and ionic bonding between atoms. Students will study stoichiometry, the rate of chemical reactions, and solubility rules based upon an independent review of nomenclature.

ADVANCED PLACEMENT CHEMISTRY I — 276
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Grade of “B” or above in Honors Chemistry 272 or a grade of “A” in General Chemistry 271.
Advanced Placement Chemistry I will present principles and concepts normally encountered in a first-year collegiate Chemistry class. Topics such as stoichiometry, gas laws, thermochemistry, atomic theory, periodicity, chemical bonding, intermolecular forces, colligative properties, reaction kinetics, chemical equilibrium, and acid/base theory will be discussed in detail. Individualized experiments, projects, and demonstrations will illustrate the basic concepts of chemistry. Related mathematical exercises requiring the use of calculators will range from simple straightforward problems to complex open-ended questions. This laboratory-oriented course is designed to build a broad knowledge of chemistry and to envision how chemistry affects our everyday lives. Students are strongly encouraged to take the Chemistry Advanced Placement examination. College Accelerated Program (CAP) credit is available.

GENERAL PHYSICS — 247
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “C” or above in Honors Chemistry 272 or General Chemistry 271.
General Physics 247 is a lab-based course where students will gain a conceptual understanding of the physical laws dealing with motion, forces, and energy transformations. The course is designed for the student that is seeking to improve his/her skills and to prepare for enrollment in a two- or four-year college program. Students will learn the role electric forces play in explaining the structure and properties of matter. Students will be able to explain how electromagnetic, gravitational, and nuclear forces can be used to produce energy and how the various forms of energy (heat, electricity, sound, light) can be transformed from one form to another.
HONORS PHYSICS — 281
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “B” or above in Honors Chemistry 272 or “A” in General Chemistry 271.
Honors Physics 281 is a lab-based course that requires students to apply mathematical principles to solve practical problems. Physics is an honors-level accelerated course that prepares the student for AP course work and a four-year college program. This course is ideally suited for, but not limited to, those students with an interest in studying mathematics, science, or engineering in college. Students will gain an understanding of classical mechanics dealing with one- and two-dimensional motion, Newton’s laws, conservation of work and energy, impulse and momentum, circular motion, and the fundamental principles of electricity and magnetism.

ADVANCED PLACEMENT PHYSICS C: MECHANICS — 282
(Advanced Placement)
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion or concurrent enrollment in Calculus AB and teacher approval.
AP Physics C: Mechanics is a calculus-based laboratory course concerning kinematics, Newton’s laws of motion, work, energy and power, systems of particles and linear momentum, rotational dynamics, gravitational fields, and oscillatory motion. Students will acquire an understanding of the foundational principles of classical mechanics by applying these principles to complex physical situations and by conducting inquiry-based laboratory investigations to investigate phenomenon through first-hand observations, data collection, analysis and interpretation. Students will develop critical thinking skills by using methods of differential and integral calculus to solve multistep problems based upon the laws of physics. Students are strongly encouraged to take the Mechanics C Advanced Placement examination.

ADVANCED PLACEMENT PHYSICS C: ELECTRICITY & MAGNETISM — 279
(Advanced Placement)
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Prerequisite: Completion of AP Physics C: Mechanics and teacher approval.
AP Physics C: Electricity & Magnetism is a calculus-based laboratory course concerning electrostatics, resistors and capacitors, electric circuits, magnetic fields, and electromagnetism. The course concludes with an added introduction to physical & geometric optics and sound. Students will acquire an understanding of the basic electrical and magnetic interactions by applying these principles to complex physical situations and by conducting inquiry-based laboratory investigations to investigate phenomenon through first-hand observations, data collection, analysis and interpretation. Students will develop critical thinking skills by using methods of differential and integral calculus to solve multistep problems based upon the laws of physics. Students are strongly encouraged to take the Electricity & Magnetism C Advanced Placement examination.

Students must enroll in AP PHYSICS C: MECHANICS — 282 and AP PHYSICS C: ELECTRICITY & MAGNETISM — 279 to meet the requirements of a full college course curriculum.
9-WEEK COURSES

FORENSICS — 255
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Grade of “C” or above in Honors Biology 252 or General Biology 253.
Forensics explores one of the fastest growing fields in the country and is a vital part of the criminal justice system. Forensics is utilized every day by the police officer with a digital camera, a physician examining a suspicious injury, an attorney in a high profile criminal case, and the scientist with a computer and an electron microscope. Students will gain an understanding of the fundamentals of a criminal investigation and how it is applied in a court of law. The students will learn by doing: analyze lab data, interact with guest speakers, explore the Internet, and become familiar with various texts. All of these tools are designed to engage a wide variety of learners in our school’s very diverse community. Students will use technology to participate in activities that closely resemble those used by law enforcement personnel, forensic scientists, and attorneys. Students will document their findings through laboratory reports to be presented to a student court and jury.

WEATHER — 291
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Grade of C or above in Biology or Environmental Science.
In this course, students will study the many facets that influence the weather on a day to day basis. The study of weather is called meteorology, and this course will explore the physical laws, relationships, and processes that control the atmosphere. Topics to be examined include the basic elements of weather (atmospheric composition, circulation, clouds, precipitation, temperature, and humidity), frontal systems, storms, forecasting, climatology, severe weather (thunderstorms, tornadoes, and hurricanes), and weather modification. Daily weather observations and forecasts will be made for dissemination to the school community and is integral to the course.

VIRTUAL ASTRONOMY — 292
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks (online format)
Virtual Astronomy 292 is an online course where the student independently explores the universe beginning with an historical overview and an introduction of basic terminology followed by a study of the planetary system, stellar phenomenon, galaxies, and cosmology. The course concludes with an examination of the United States space program. All lecture and support materials are available on the instructor’s website. Assignments are submitted by email and tests are administered online. This course can be optionally completed between June 30th and September 1st. **Students must contact the instructor for the enrollment key and login information. Reliable computer Internet access is required to enroll in and complete this course.**
GENETICS: A CONCEPTUAL APPROACH — 288
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Grade of C or above in Honors Biology 252 or General Biology 253.
Every individual carries within their genes the potential for disorders ranging from Down's syndrome, sickle cell anemia, and cystic fibrosis to asthma, diabetes, and cancer. During this 9-week lab-based course, students will be introduced to the basic concepts of molecular genetics and the principles of Mendelian heredity related to the expression of traits in humans. The causes and treatments of common inherited diseases will be discussed as well as genetic technologies and their applications including recombinant DNA technology and genetic engineering. The associated ethical and social issues will also be examined in light of current research and developments in the field. Laboratory investigations will focus on the study of patterns of inheritance, population genetics, pedigree analysis, and chromosomal mutations.

INTRODUCTION TO MICROBIOLOGY — 283
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Grade of C or above in Honors Biology 252 or General Biology 253.
Over two million people each year in the United States contract some form of bacterial, viral, or fungal infection resulting in tens of thousands of deaths due to the increasing number of drug-resistant strains. During this 9-week lab-based course, students will be introduced to the basic principles concerning the morphology and physiology of prokaryotes, eukaryotes, and viruses. Host resistance and approaches to immunology will be discussed in addition to the epidemiology of selected diseases and its world-wide pandemic implications. Laboratory investigations will focus on microscopic identification and isolation methods commonly used by clinical technicians.

APP DEVELOPMENT — 258
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Recommended students have home access to an Apple MacBook, Mac mini or iMac.
Apple iOS is one of the world’s largest installed mobile operating system and platform running on more than 400 million devices which serve as access points for remotely held information, game-playing, route-tracking, social networking, and utilities. Students will acquire the knowledge and skills needed to develop apps for iPhone/iPad using Apple's iOS SDK and Xcode (IDE). The course will also include discussions of strategies for marketing applications, optimizing code, and intellectual property rights. Familiarity with a programming language is recommended but not required for enrollment in this course. This course fulfills the Career and Vocational-Technical Education (VOC) requirement for graduation.
Science & Technology Department

Technology

For America to remain competitive, students need to learn complex, cognitive, social and communication skills to develop 21st century skills. Project-based learning can increase interest in science, technology, engineering, and math (STEM) because students become engaged in solving authentic problems, working with others, and building real solutions. Research shows that students successfully completing STEM courses have improved test scores in math and science and are better prepared for college and the workplace.

9-WEEK COURSES

GRAPHIC ARTS I — 680
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Graphic Arts I fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This introductory course in graphic arts offers students who have an interest in graphic arts/design and the printing process the opportunity to apply their knowledge and skills to design, layout, and produce several different types of projects using low-volume graphic production techniques. Students will become familiar with screen-printing and offset processes using various films and plates. The terminology and vocabulary used in the graphic arts and printing production industry will be emphasized as students learn the capabilities of Adobe design software.

VIRTUAL PHOTOGRAPHY — 690
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks (online format)
Virtual Photography fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. The student independently studies the history of photography and the theory behind the operation of the 35mm film camera using materials available on the course website. Assignments are submitted via email and tests are administered online. This course can be optionally completed between June 30 and September 1. Students must contact the instructor for the enrollment key and login information. Reliable computer Internet access is required to enroll in and complete this course.

AUTOMOTIVE TECHNOLOGY — 713
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Automotive Technology I fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This course uses a practical, hands-on, project-based approach to instruct students in the basic skills needed to properly maintain an automobile. Following a thorough introduction to shop safety, students learn to identify and select the appropriate tools to complete a specific task such as overhauling a disc brake system or changing oil. Students will become familiar with tire labeling/sizing and pressure, the operating principles of a four-stroke engine, basic automotive electrical systems including ignition components, driver safety systems and design, schedule for routine maintenance, and legal requirements for ownership and operation of a vehicle. The course concludes with students preparing to purchase their first safe, reliable, and fuel-efficient used car on a limited budget.
Science & Technology Department

AUDIO & VIDEO TECHNOLOGY — 698
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Audio & Video Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. Students will become familiar with the theories and tools of audio and video communication including preproduction planning (cabling and connectors), camera use, lighting design, sound recording, and electronic editing. Students will apply their editing skills to produce and edit a final project using scripts and storyboards. Careers in communication will be an ongoing focus of discussions throughout this introductory course.

AUDIO PRODUCTION — 728
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Audio Production fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. Students will gain conceptual knowledge of and the practical skills needed for the production, recording, and editing of audio media used by sound engineers. Techniques will be presented for capturing both the vocal and instrumental audio performance using various analog and digital input and recording devices including microphones and mixing consoles. Students will gain hands-on experience using industry-standard software to edit audio tracks with the addition of layering and sound effects. Discussions will include such topics as the physical nature and human perception of sound and studio acoustics. Students will learn how to write and read radio/television promos and news stories, how to create station IDs and commercials, and how sound can influence the information received by the listener.

FILM PRODUCTION — 747
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Successful completion of Audio & Video Technology and approval of instructor.
Film Production fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. Students will produce short films by following a detailed production process. Students will write scripts, simulate and maintain a working budget, schedule and coordinate shoots during the development and pre-production process. Students will take direction from the student director when shooting video, lighting scenes and recording audio during the production process. Students will edit video and audio and incorporate special effects, filters, and other advanced editing techniques (color correction and grading) during the post production process. Students will also watch and analyze the production techniques used in various films.

APPLIED TECHNOLOGY — 720
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Applied Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. The goal of this STEM-based course is for students combine the creativity and expression of design with the precision of technical skills to fabricate an original innovative product. Students become familiar with the structural design process through an investigation of the practical application of the basic principles of electricity and magnetism used in leading-edge transportation alternatives, radio-controlled vehicles, and robotic mechanisms. Through hands-on activities, students
PRODUCTION TECHNOLOGY — 723
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Production Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. Production Technology focus on the basic skills for the use of hand and power machines in working with wood and other materials. Emphasis is placed on the function and safe operation of various tools and on an appreciation for their broad application in the home and industry. A wide range of activities allows the student opportunities to plan, construct, and finish individual and group projects. After dividing a project into components, students learn the basics of rough milling, squaring, ripping and crosscutting, blade selection, jointing and milling, types of joinery, tapering and shaping, gluing and clamping, and sanding.

CONSTRUCTION TECHNOLOGIES — 718
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Construction Technologies fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. The construction engineering design process involves a series of actions from foundation setting to final inspection. In this STEM-based course, students will analyze data and solve real-world problems associated with the construction of full-sized or scale models of common building components. Through the practical application of basic algebra and geometry skills, students will design and conduct tests for building materials such as density, elasticity, thermal conductivity, specific heat, and moisture resistance in addition to load and shear strength, compression, and torsion. By applying the scientific method, students will evaluate the effectiveness of several types of measuring and testing tools as well as the energy efficiency of utility systems. During the final site evaluation, students will use their knowledge of environmental science to identify ways to protect the watershed through soil conservation and water retention systems.

COLD METAL TECHNOLOGY — 743
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Cold Metal Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. In this STEM-based course, students will be introduced to the use of AutoCAD for the design and CNC machinery for the production of jewelry with an emphasis on a variety of cold joining techniques. In this hands-on class, students work with sheet metal, and wire, as well as with found objects. Techniques include sawing, piercing, texturing, metal forming, cold-connection fabrication, and wire-working.

DIGITAL IMAGING — 687
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Digital Imaging fulfills the 2.5 credits of Career and Vocational-Technical Education (VOC) graduation requirement. This course is designed to provide students with a comprehensive introduction to digital imaging where the photographer utilizes the computer as a darkroom. Students will gain an understanding of the specific terminology and techniques associated with image adjustment to
nondestructively adjust and enhance color and tone; to create and edit pixel and vector-based masks; and to employ feathering, extending depth of field, layering, blending, and zooming and panning.

ENVIRONMENTAL DESIGN SYSTEMS — 740
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Environmental Design Systems fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. The course focuses on the design solutions associated with, but not limited to, site development, landscape architecture, waste management and treatment, human design factors, fossil and alternative fuels, and associated careers. Students will have the opportunity to work on school and community needs-based environmental projects including the FLIP program. Students will use technology to conduct research, retrieve information from online databases, apply parametric design software to solve problems, and desktop publishing applications to prepare high-quality project portfolios.

ENERGY & POWER TECHNOLOGY — 705
(Honors)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Energy & Power Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This STEM-based course introduces students to the real-world applications of various energy technologies. Students will understand the scientific principles behind hydraulic and pneumatic powered mechanical systems and be able to calculate fluid velocity and drag through various cross-sectional areas and angles of pipes before designing and constructing a working lift or crane. Students will be able to identify and explain the functions of various components of series-parallel circuits. By applying basic math and problem-solving skills, students will measure and calculate current, resistance, voltage drop, and power consumption using a multimeter and Ohm's Law. The study of electrical systems concludes with the assembly and testing of a DC motor.

TRANSPORTATION TECHNOLOGY — 707
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Transportation Technology fulfills 2.5 credits of the Career and Vocational-Technical Education (VOC) graduation requirement. In this STEM-based course, students will analyze data and solve real-world problems associated with transportation technologies following a study of environmental concerns surrounding various energy resources. Alternative energy sources including wind, air, and solar power will be investigated through online research and discussions. Through the practical application of basic math skills, students will calculate power-to-weight relationships, mechanical advantage of systems, torque, engine fuel efficiency, gear ratios, and resistance/voltage drops in simple electrical circuits. Based upon their knowledge of physical sciences, students will demonstrate how the appropriate selection of piping materials, pumps, and other materials is based on hydrostatic effects with an examination of hydraulic brake systems. Students will design and create electrical systems containing motors from schematics for series, parallel, and combination circuits.
18-WEEK COURSES

GRAPHIC ARTS II — 681  
(College Preparatory)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Graphic Arts I  
Graphic Arts II fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course offers students an in-depth study of offset lithography and screen printing processes with particular attention to layout design and typesetting. Students will gain practical experience in the production of screen-printed, multicolor t-shirts, mirrors, decals, and offset-printed multicolor greeting/business cards.

VIDEO PRODUCTION & EDITING — 729  
(College Preparatory)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Audio & Video Technology 698 & teacher recommendation  
Video Production & Editing fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. Students will produce and edit in-depth video productions, such as commercials and silent films, using professional editing software. Students will use Garage Band, electronic graphic generation and layering, chroma key lighting, and other advance audio- and video-editing techniques to prepare several projects, including a commercial, an interactive DVD, a professional movie trailer, and a movie project. Students will also watch and analyze the production techniques used in various movies. College Accelerated Program (CAP) credit is available.

TELEVISION BROADCASTING — 730  
(College Preparatory)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Audio & Video Technology 698 & teacher recommendation  
Television Broadcasting fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. Students serve as producers, anchors, editors, and studio crewmembers producing their own television broadcasts that will air on the RVTV closed circuit network. Various television format styles are discussed in the course in addition to the influence of demographics in the pitching and survivability of a program. Students will be introduced to scripting techniques, electronic news gathering, copy writing and talent appearance, NPPA-style shooting, lighting schemes, and the use of a green screen; plus, careers in broadcasting. College Accelerated Program (CAP) credit is available.

BROADCAST JOURNALISM — 736  
(College Preparatory)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of TV Broadcasting 730 & teacher recommendation  
Broadcast Journalism fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. Following an overview of the history of broadcast journalism, students will serve as producers, directors, script writers, and assignment editors producing their own television broadcasts that will air on the RVTV closed-circuit network. Various television format styles will be discussed in addition to the influence of demographics in the pitching and survivability of a program. Students will be introduced to scripting techniques, electronic news gathering, copywriting and talent appearance, NPPA-style shooting,
lighting schemes, and the use of a green screen. The course will conclude with an examination of careers in broadcast journalism and television production.

**MECHANICAL DRAWING/CAD — 700**  
*(College Preparatory)*  
**Grade Level:** 9-12  
**Credits:** 5  
**Length:** 18 weeks  
Mechanical Drawing/CAD fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. Students enrolled in this STEM-based course will become familiar with the basic principles of computer-aided design and rendering. Students will acquire the knowledge and skills to use CAD and Inventor applications to create three-dimensional drawings, assemblies, and animations. Additionally, students will be introduced to a Computer-Numeric-Control (CNC) router/mill/lathe to design and manufacture their own product. Design and technology will be discussed in addition to career opportunities in the field of engineering. Students will receive a copy of Autodesk Inventor software for their home computer.

**RVTV INTERNSHIP (Option II Program)**  
*(Pass/Fail)*  
**Grade Level:** 10-12  
**Credits:** 5  
**Length:** Year  
**Prerequisite:** Successful completion of Audio & Video Technology with approval of Channel 19 Station Manager  
RVTV Internship (Option II Program) fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. Students are required to complete various RVTV production assignments before, during, and after-school hours as assigned by the Channel 19 Station Manager. Duties and responsibilities may include, but are not limited to, serving as studio show or live event producer, postproduction editor, technical crewmember, anchor and reporter, videographer and editor, and scriptwriter.
Project Lead The Way (PLTW) Pathway to Engineering™

The Project Lead The Way (PLTW) Pathway to Engineering™ program offers a dynamic curriculum where students experience real-world hands-on learning. RV students interested in pursuing a career in engineering, biomechanics, aeronautics, or another applied math/science area are encouraged to participate in the PLTW program.

Pathway to Engineering™ is a four-year course of study combining our current math and science Honors/AP level courses with PLTW electives. The PLTW courses satisfy the Career and Vocational-Technical Education (VOC) graduation requirement.

The end-of-course assessments are designed by Project Lead the Way using a common standard for high school students. The two-part 90-minute exam is administered over two days and contains short answer, factual questions and hands-on course content application using math and English Language Arts skills. Students receiving a 70% or above on the Part C of the test, an 85% average for the course, and have completed their portfolio may be awarded college credit. Students enrolled in the Project Lead The Way (PLTW) Pathway to Engineering™ program may be required to participate in a project-based summer enrichment program. RV students successfully completing the four-year program may be eligible for preferential admission to schools of engineering in addition to financial support. The RV PLTW program was nationally certified in May 2014.

College Credit

College credit for PLTW courses is available from the Rochester Institute of Technology (RIT) for students who earn a stanine score of 6 or higher on PLTW's year-end exam (6=C; 7=B; 8 and above = A) in Introduction to Engineering Design, Computer Integrated Manufacturing, and Principles of Engineering AND have a final course grade of 85% or higher. The RIT college credit grade is based solely on the stanine earned on the final exam. If a student subsequently attends RIT, the college credit grade would be counted towards his/her overall grade point average. Any student who successfully completes a course during the academic year must take the exam at the end of the course and register for college credit before mid-November. The tuition charge for each 3 credit course is $225 as of 2014.

The registration form can be printed at http://www.rit.edu/pltw/regform. RIT will send the student a transcript at the end of the semester in which he/she registers for credit. Students who apply to colleges other than RIT may request, at no cost, that a transcript be sent to those schools by completing a Transcript Request Form at http://www.rit.edu/academicaffairs/registrar/formsU. Please note that having RIT credits does not guarantee that the student will be accepted into any program, including those offered at RIT. All colleges and universities establish their own policies for accepting credits.

All courses are 18 weeks in length. Courses are open to individuals not enrolled in the PLTW program as electives provided seats are available and the student meets prerequisites. Acceptance into the program does not necessarily guarantee enrollment in the selected PLTW course. Students should always select an alternate course on their schedule.
Science & Technology Department

INTRODUCTION TO ENGINEERING DESIGN — 731
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Prerequisite: Grade of “B” or above in Algebra I 189 or equivalent
Freshmen enrollment in this course is based upon an evaluation of 8th grade science grades and performance on the 8th Grade Science Assessment.
Co-requisite: Recommended Geometry 218
Introduction to Engineering Design fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This introductory course focuses upon problem-solving skills with an emphasis on the development of three-dimensional solid models. Students use computer CAD software to produce, analyze, and evaluate models of project solutions. Students learn the history of the design process before developing and documenting their own engineering design portfolios. The course presents sketching and visualization techniques based upon the relationships related to forms and shapes, geometric constraints, the Cartesian coordinate system, and the origin plane. Students apply communication techniques to develop presentation aids after studying manufacturing design, process planning, trends in automated manufacturing, materials procurement, handling, cost analysis, quality control, manpower and facility requirements, product cost analysis, and packaging requirements.

COMPUTER INTEGRATED MANUFACTURING — 734
(Honors)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
Prerequisite: Introduction to Engineering Design and a grade of “B” or above in Geometry 218
Co-requisite: Recommended Algebra II 203
Computer Integrated Manufacturing fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course teaches the fundamentals of computerized manufacturing technology building on the solid-modeling skills developed in the Introduction to Engineering design course. Students use computer software to solve design problems and use prototyping equipment to produce 3-D models. Topics of study include parts modeling, prototyping, computer numerical control (CNC), robotics, and CIM system applications.

PRINCIPLES OF ENGINEERING — 733
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Introduction to Engineering, Computer Integrated Manufacturing and a grade of “B” or above in Algebra II 203
Co-requisite: Recommended Pre-Calculus 222 and Honors Physics 281 or AP Physics 280
Principles of Engineering fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course provides an overview of engineering technology by tackling real-world design problems. Students learn how engineers working in teams develop products. The course includes a study of mechanical, electrical, fluid and pneumatic and control systems, scalars and vectors, linear and projectile motion, equilibrium, structural analysis, and strength of materials. Students learn about units and forms of energy, energy conversion, cycles, efficiency, energy loss, and conservation techniques. Discussions will address reliability, redundancy, risk analysis, factors of safety, liability, and ethics.
Science & Technology Department

ENGINEERING DESIGN & DEVELOPMENT — 735
(Honors)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisite: Introduction to Engineering Design, Principles of Engineering & Computer Integrated Manufacturing
Recommended: Honors or AP Statistics

Engineering Design & Development fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This culminating capstone research course requires students to formulate the solution to an open-ended engineering question. Students work in teams with a local Lockheed-Martin engineer to design and build solutions to authentic engineering problems. Students keep journals of notes, sketches, mathematical calculations, and scientific research. Teams must present their final research paper and defend their projects to a panel of engineers, business leaders, and educators for professional review and feedback.

Enrollment in all PLTW courses requires that students have access to a Windows-based personal computer at their home with at least 8GB RAM and 40GB free HDD space to install and run the AutoCAD Inventor software.
Social Studies Department

The Social Studies Department offers a required and an elective program. In order to graduate, all students must take World History, US History I, and US History II. If a student fails World History, US History I or US History II, he/she should make up the deficiency before proceeding to the next course.

Students are also encouraged to select from the social studies elective offerings when making choices for optional courses on their schedule. Students taking Honors US History I, AP US History II, AP Psychology, and/or AP European History will have a summer assignment. Students enrolled in an Advanced Placement course may be eligible for college credit by successfully completing an AP exam or the CAP Program.

WORLD HISTORY — 140
(Honors)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisites: Teacher recommendation and successful completion of the Honors Readiness Assessment.

World History 140 is an honors-level accelerated course that prepares the student for AP course work and a four-year college program. It provides students with the knowledge to make linkages between past and present so that they can draw on the past in understanding and exploring current trends and events. It emphasizes the awareness of culture and its fundamental importance in the comprehension of human history. The history of various societies is taught thematically through a series of area studies. Issues of today can then be seen as products of past cultural experiences, relations between/among societies, historical background, and geographical aspects. In order to prepare students for future honors courses in this department, an intensive workload and an emphasis on critical thinking skills form the basis for the structure of the class.

WORLD HISTORY — 141
(College Preparatory)
Grade Level: 9
Credits: 5
Length: 18 weeks

World History 141 is intended for students seeking a rigorous course of study in preparation for a four-year college program. It provides students with the knowledge of the past needed to understand the present and future. It emphasizes the causes and impacts of events, which have shaped the contemporary world. Using the themes of geography, history, culture, and religion, students will draw on a variety of activities and resources to understand the importance of seven regions of the world.

US HISTORY I — 110
(Honors)
Grade Level: 10
Credits: 5
Length: 18 weeks
Prerequisite: Teacher recommendation

US History I Honors is a challenging course that emphasizes cultural awareness and critical thinking while preparing students for the AP exam. It is a quick-moving, single-semester survey of American history from the Colonial Period to Reconstruction, highlighting the years 1492 to 1877. The activities in the class are meant to resemble a first-year college course. Solid reading and essay-writing skills, a willingness to devote considerable time to homework and independent study, and a general enthusiasm to learn history are necessary to succeed. A college-level textbook is used and there are weekly reading assignments from it. Successful completion of a summer assignment is required for this course. Students must download their assignment in June before leaving for summer vacation.
Social Studies Department

US HISTORY I — 111  
(College Preparatory)  
Grade Level: 10, 11  
Credits: 5  
Length: 18 weeks  
US History 111 is intended for students seeking a rigorous course of study in preparation for a four-year college program. It includes the study of American history from the Colonial Period to the Gilded Age. Core concepts focus the historical study of the 18th and 19th century America with emphasis on social, political, and economic issues so that students can understand the historical background of contemporary issues and problems.

US HISTORY II — 121  
(College Preparatory)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: US History I  
US History II 121 is intended for students seeking a rigorous course of study in preparation for a four-year college program. It is intended as a survey of modern American life from the beginning of industrialization to the present day. Events in the course reflect the concepts of change, democracy, conflict, power and responsibility, struggle, economics, and historical perspective. Students will be encouraged to make connections between past events and our position in the world today, as well as form opinions about our priorities as a world power.

ADVANCED PLACEMENT US HISTORY II — 123  
(Advanced Placement)  
Grade Level: 11, 12  
Credits: 7.5  
Length: 27 weeks  
Prerequisites: Successful completion of US History I, teacher recommendation  
US History II AP finalizes the study of American history with the twentieth century. Cultural awareness, critical thinking, and historical interpretations are integrated throughout; document-based questions and free-response essays are practiced repeatedly. CAP credit available. Successful completion of a summer assignment is required for this course. Students must download their assignment in June before leaving for summer vacation.

18-WEEK COURSES  
These courses are intended for the student seeking a rigorous course of study in preparation of a four-year college program.

ADVANCED PLACEMENT PSYCHOLOGY — 150  
(Advanced Placement)  
Grade Level: 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Recommendation by School Counselor  
Advanced Placement Psychology is an in-depth study of the major areas in psychology. Students will investigate and develop an understanding of the following: levels of consciousness, learning, memory, intelligence, motivation, personality, developmental psychology, psychological disorders, therapeutic treatments, and behavior in small groups. CAP credit available. Successful completion of a summer assignment is required for this course. Students must download their assignment in June before leaving for summer break.
Social Studies Department

LAW, SOCIETY & POLITICS — 147
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Law, Society & Politics will give students the opportunity to explore their rights while attempting to understand the systems of justice, authority, and responsibility as set down by society. Students will evaluate the political issues that impact the daily life of all Americans, young and old. This course will also provide students the opportunity to explore careers in the legal and criminal justice professions. Students will debate, role-play, write, and argue persuasively on current and historical topics. The course concludes with preparation for and execution of several mock trials that introduce students to the legal system in action.

ADVANCED PLACEMENT AMERICAN GOVERNMENT & POLITICS — 152
(Advanced Placement)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of US History I, teacher recommendation
Advanced Placement American Government & Politics is an intensive study of the formal and informal structures of government and the processes of the American political system, with an emphasis on policy-making and implementation. It discusses the political philosophies supporting the American political system, American political institutions (official and unofficial), and some prominent controversies (current and historical) in American political life. The course is designed to prepare students for the AP exam. CAP credit available.

ADVANCED PLACEMENT EUROPEAN HISTORY — 153
(Advanced Placement)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of World History, teacher recommendation
Journey back to a mystifying time when powerful popes clashed with oppressive monarchies in the soap opera drama of modern Europe. Mourn at the funeral of Napoleon, defend or prosecute the controversial Martin Luther, and fight for your rights as an industrial factory worker. From the rise of Merry Old England to the fall of the Berlin Wall, this course examines Europe from the years 1450 to the present. We will take a hard look at Europe’s darkest moments, from the Reign of Terror and imperialism in Africa, to the Holocaust. We will also highlight Europe’s contributions to the world, from the paintings of Picasso and the music of Mozart, to Mary Shelley, the author of Frankenstein. From peasantry to democracy, Europe’s story is an inspiring one. Join us as we bring it to life. This course will prepare you for the AP European History Exam and CAP credit is available. Summer work will be assigned and must be picked up in June before leaving for the break.

SOCIOLOGY— 149
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks (online format)
This course will introduce you to the study of humankind’s most important creation- the social group. Furthermore, it examines the influence of social relationships on people’s attitudes and behavior. Topics include: social structures (groups, communities, organizations), social categories (age, sex, class, race, etc.), and social institutions (politics, education, etc.). The course also focuses on specific problems such as crime, divorce, child abuse, and substance addiction. This course is delivered primarily through an online format. Reliable computer Internet access is required to enroll in and complete this course. Students must contact the instructor for the enrollment key and login information.
9-WEEK COURSES
These courses are intended for the student seeking a rigorous course of study in preparation of a four-year college program.

INTRODUCTION TO HUMAN BEHAVIOR — 148
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Why do people behave the way they do? Students will attempt to answer this thought-provoking question through the study of basic psychological and social components of human behavior. Students will have the opportunity to study group behavior, social and emotional development, personality disorders, and levels of consciousness and memory, among other topics.

PEACE STUDIES (ALTERNATIVES TO VIOLENCE) — 159
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Peace Studies takes a close look at the role that peace and violence play in our world today, as well as teaching students conflict resolution skills; skills that are absolutely necessary in our daily lives. Martin Luther King, Jr., Gandhi, and other models of nonviolence are studied and discussed as students are asked to determine their position on the many acts of violence and war in our world today. Guest speakers, discussions, debates, and field trips will be utilized to engage students in the often difficult and complicated commitment to individual and world peace.

GENOCIDE STUDIES — 157
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Genocide Studies will look at what happens when prejudice and discrimination are allowed to flourish, and individuals and governments fail to take a stand against injustice. Students will complete a comprehensive study of the plight of Native Americans during colonization and expansion, the Holocaust, and genocides in Armenia, Cambodia, Rwanda, and Sudan. Students will recognize the ease with which human and civil rights can be denied and understand the ramifications of stereotyping, prejudice, discrimination, and scapegoating. Ultimately, students will define their role as responsible citizens of the world and implement these understandings into their everyday lives.

MODERN AFRICA: DIAMONDS, DICTATORS AND DREAMS — 145
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
From the generosity of celebrities like NBA superstar Tracy McGrady and actress Angelina Jolie, to the student-led Invisible Children movement, all eyes are now on Africa. This inspiring elective will open your mind to the continent's natural beauty and rich culture. It will also open your heart to the tragedy of child soldiers, conflict minerals, and genocide. Guest speakers from Nigeria, Uganda, Sierra Leone, and Zambia will join us in the classroom, bringing this course to life. Films about blood diamonds, Nelson Mandela, and African rap stars will grab your attention. Our hope is that when you finish this course, not only part of Africa, but part of you, will have changed in the process.
SPORTS & HISTORY — 144
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
You think you know about sports? Try this! Go beyond the ESPN highlights and unearth the true stories of your favorite players. Learn what turned great athletes like Muhammad Ali and Mia Hamm into true icons of the game. Uncover what transformed American idols like Mickey Mantle and Joe Namath into troubled figures. In this eye-opening course, we will take part in the monumental Black Sox baseball scandal of 1919. We will peak behind the curtain at the murky recruitment process of big-time college basketball. We will wrestle with the pressures that high school athletes like you face each game. After taking this course, you will love sports in an entirely new way.

THE SEVENTIES, EIGHTIES & NINETIES — 158
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
This relevant and contemporary course will focus on the key people, places, and events which have shaped the nation since the end of the Vietnam War. We will be examining both the political and cultural landscape of these years. How have these decades shaped the current political, social, economic, and cultural landscape of the United States? What was life like in America in the 70s, 80s, and 90s? This is an opportunity to better understand the country you live in and the events and happenings that impact you as a teenager today.

INTRODUCTION TO LEADERSHIP— 146
(Honors)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Teacher recommendation or instructor approval
What does it really mean to be a leader? What qualities do I need to have? How can I inspire others to action? Explore the fundamental principles of leadership through class discussions, debates, case studies, simulations, and powerful films. Analyze the qualities of George Washington, Theodore Roosevelt, Martin Luther King, Jr., Steve Jobs, and Oprah Winfrey. Develop your own abilities and skills as a leader and put them to good use in your school and community.
The World Language Department offers two types of language courses:

- Proficiency-based language courses consisting of Spanish, French, and Italian are designed for those students who wish to develop the four basic language skills: listening, speaking, reading, and writing. At the same time, these courses aim to increase the student’s knowledge and appreciation of the diverse cultures of the countries whose language they are learning.

- Advance Placement (AP) courses in French and Spanish are offered for motivated students who have completed at least three years of world language study. This program is based on the reading lists and course descriptions from the College Entrance Examination Board. Success in one of these courses and the AP examination can result in one half to one full year of college credit and/or advanced placement in a college’s language program. Students are strongly encouraged to take the World Languages Advanced Placement examination. College Accelerated Program (CAP) credit is available.

Most colleges require at least two years of the same language for entrance. The State of New Jersey requires that all students complete one unit of world language study as a requirement for graduation.

**FRENCH I — 360**  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
French I will introduce the basic skills of the language: speaking, listening, reading, and writing. The use of the French language in practical situations will be stressed along with a gradually advancing study of grammatical aspects. A general knowledge of the geography and life styles of the French-speaking peoples of France and Canada will be integrated into the course through the use of the textbook, video programs, audio programs, and outside sources such as magazines, films, and music.

**FRENCH II — 362**  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: French I  
French II will continue the study of the basic skills of the language: speaking, listening, reading, and writing. The use of the French language in practical situations will be stressed along with a gradually advancing study of grammatical aspects. A general knowledge of the geography and life styles of the French-speaking peoples of France, Québec, and Senegal will be integrated into the course through the use of the textbook, video programs, audio programs, and outside sources such as magazines, films, and music.

**FRENCH III — 364**  
(Honors)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: French I and II with teacher recommendation  
French III is an intermediate level course that is a continuation of French II with added emphasis on reading, writing, listening, speaking, and cultural appreciation and awareness. The students will continue to expand their ability to communicate effectively in new situations that are likely to be encountered in French speaking countries. The three modes of communication (Interpretive, Interpersonal, and Presentational) and the study of the culture of the Francophone world are integral parts of the course. There will also be a continuation of the study of grammatical structures that will enhance the ability of the students to use the language. Topics such as holidays, cuisine, technology, daily routines, camping,
World Language Department

health and body, mass media, music, and French history will be discussed in order to develop their acquisition of French.

ADVANCED PLACEMENT FRENCH IV — 366
(Advanced Placement)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisites: French I, II, and III
Advanced Placement French IV has as its goal a certain level of proficiency in French. Students are expected to be able to understand, speak, read, and write in the language at the college level. This course is the culmination of several years of study and seeks to develop and refine skills that have been acquired over a student’s entire school career. Students are strongly encouraged to take the French World Languages Advanced Placement examination. College Accelerated Program (CAP) credit is available.

EXPLORATORY ITALIAN — 411
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Exploratory Italian is designed for a student who would benefit from basic skills instruction. This course provides students with a conversational base in the Italian language and places an emphasis on basic vocabulary and grammar concepts. A general knowledge of the geography and lifestyles of the Italian-speaking peoples of the United States and those in Italy will be integrated into the course through the use of the textbook, videotapes, audio programs, and outside sources such as magazines, films, and music. Completion of this course satisfies the state’s World Language requirement.

ITALIAN I — 410
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Italian I will introduce novice students (who begin without knowledge of the target language) to the basic skills of the language: listening, speaking, reading, and writing. The use of the Italian language in practical situations will be stressed along with a gradually advancing study of grammatical aspects. This course will include cultural topics to expand the student’s knowledge of Italian customs and everyday life. Topics to be covered include salutations, city life, education and majors, personal descriptions, food and dining, geography, and the history of Italy.

ITALIAN II — 412
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisites: Italian I
Italian II will introduce novice students to the basic skills of the language: listening, speaking, reading, writing, and cultural awareness and appreciation. The students will continue in their progressive ability to communicate effectively in new situations that are likely to be encountered in Italy. There will also be a continuation of the study of grammatical structures that will enhance the ability of the students to use the language. Cultural topics such as family life, pastimes, travel, opera, banking, geography, daily routines, music and Italian history will be discussed in order to develop their acquisition of Italian.
ITALIAN III — 414  
(Honors)  
Grade Level: 10-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: Italian I and II with teacher recommendation  
Italian III is an intermediate level course that is a continuation of Italian II with added emphasis on reading, writing, listening, speaking, and cultural appreciation and awareness. The students will continue to expand their ability to communicate effectively in new situations that are likely to be encountered in Italy. The three modes of communication (Interpretive, Interpersonal, and Presentational) and the study of the culture of the Italian-speaking people are integral parts of the course. There will also be a continuation of the study of grammatical structures that will enhance the ability of the students to use the language. Topics such as mass media, fashion, travel, home, geography, music and Italian history will be discussed in order to develop their acquisition of Italian.

ADVANCED PLACEMENT ITALIAN IV — 415  
(Advanced Placement)  
Grade Level: 12  
Credits: 5  
Length: 18 weeks  
Prerequisites: Italian I, II, & III  
In AP Italian IV students are expected to understand and be assessed at the college level in the following areas: reading, writing, speaking, and listening comprehension. This course is the culmination of several years of study and seeks to develop and refine skills that have been acquired over a student's school career. In addition, the students will continue the exploration of the cultural aspects of the language and of the country, Italy. This AP course is designed to provide intensive preparation for the Advanced Placement Examination. Students are strongly encouraged to take the Italian World Languages Advanced Placement examination. College Accelerated Program (CAP) credit is available.

EXPLORATORY SPANISH — 391  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Exploratory Spanish is designed for a student who would benefit from basic skills instruction. This course provides students with a conversational base in the Spanish language and places an emphasis on basic vocabulary and grammar concepts. A general knowledge of the geography and lifestyles of the Spanish-speaking peoples of the United States and other Spanish speaking countries will be integrated into the course through the use of the textbook, videotapes, audio programs, and outside sources such as magazines, films, and music. Completion of this course satisfies the NJ World Language requirement.

SPANISH I — 390  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Students coming from Exploratory Spanish must have teacher recommendation  
Spanish I will introduce the basic skills of the language: speaking, listening, reading, and writing. The use of the Spanish language in practical situations will be stressed along with a gradually advancing study of grammatical aspects. A general knowledge of the geography and life styles of the Spanish-speaking peoples of the United States, Mexico, Puerto Rico, and Spain will be integrated into the course through the use of the textbook, videos, audio programs, and outside sources such as magazines, films, and music.
SPANISH II — 393
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Spanish II continues the study of basic Spanish emphasizing the practical use of the language in written and verbal conversation. The student is expected to write short selections in Spanish, read challenging cultural excerpts, and use spoken Spanish in class. The history, culture, and civilization of Ecuador, the Dominican Republic, Argentina, and Costa Rica will also be studied in this course.

SPANISH III — 401
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Spanish I and Spanish II
Spanish III is a course where students are expected to understand and be assessed at a more challenging level in the following areas: reading, writing, speaking, and listening comprehension. This course is the culmination of several years of study and seeks to develop and refine skills that have been acquired over a student’s entire school career. In addition, the cultures of many Spanish-speaking countries are brought to the forefront with emphasis on Costa Rica, Argentina, Mexico, and Spain.

SPANISH III — 403
(Honors)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Spanish I and Spanish II with teacher recommendation
Spanish III Honors is a course where students are expected to understand and be assessed at a rigorous level in the following areas: reading, writing, speaking, and listening comprehension. This course is the culmination of several years of study and seeks to refine skills that have been acquired over a student’s entire school career. In addition, the cultures of many Spanish-speaking countries are brought to the forefront with emphasis on Costa Rica, Argentina, Mexico, and Spain. This Honors course is designed to provide preparation for the Advanced Placement Examination.

SPANISH IV — 402
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Spanish I, II, and III with teacher recommendation
Spanish IV Honors is a course where students are expected to understand and be assessed at a rigorous level in the following areas: reading, writing, speaking, and listening comprehension. This honors course is the culmination of several years of study and seeks to refine skills that have been acquired over a student's entire school career. In addition, the cultures of many Spanish-speaking countries are brought to the forefront with emphasis on Mexico, the Caribbean, the Andean culture, and the Hispanic influences in the United States. This Honors course is designed to provide preparation for the Advanced Placement Examination.
ADVANCED PLACEMENT SPANISH V — 406
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: Spanish I, II, III, and IV
Spanish V Advanced Placement is designed to enable students to improve all language skills and knowledge of the Hispanic world. Reading skills will be improved through the reading of selected Hispanic authors. Speaking, listening, and writing fluency will be strengthened through discussion of these works. The principle areas of Hispanic civilization, fine arts, and current events will be presented and explored by the students. This AP course is designed to provide intensive preparation for the Advanced Placement Examination. Students are strongly encouraged to take the Spanish World Languages Advanced Placement examination. College Accelerated Program (CAP) credit is available.

ENGLISH FOR ENGLISH LANGUAGE LEARNERS (ELL) — 352
(College Preparatory)
Grade Level: 9-12
Credits: 10
Length: 36 weeks
Prerequisites: Approval of World Language Supervisor
English for ELLs is a year-long course that focuses on the instruction of English for students in grades 9-12 whose first language is other than English. Students are recommended by their 8th grade teachers or guidance counselors. Students are given an informal pre-test upon entry into the high school and are given an annual standardized test (ACCESS) to determine whether their English language skills fall within the designated limits of the class. Emphasis is on communication in English, and culture in general. When students acquire sufficient facility in the use of English, they are placed in the regular English program.
**Resource Courses**

Resource courses offer the same curricula in keeping with current New Jersey Core Content Curriculum Standards as their general education counterparts. The general education lessons are modified by the classroom teachers to meet the individual needs of the students. Instruction is tailored to address learning deficiencies, unique learning styles, and emotional needs of classified students. Resource courses provide a smaller educational setting with a maximum of nine students taught by a highly qualified content specific special education teacher. A student’s enrollment in a resource course follows discussions with all parties involved during the annual IEP meeting.

**ENVIRONMENTAL SCIENCE — 820**

**Grade Level: 9**

Environmental Science 820 is a lab-based course where students will develop an awareness of environmental issues whether the result of naturally occurring processes or those altered by human activity such as climate change and the threatening of endangered species. Students will explore the environmental risks and benefits associated with society’s need for key resources. As part of the study of the environment, students will also develop an understanding of the structure, dynamics, and geophysical systems of the Earth.

**BIOLOGY — 836**

**Grade Level: 10**

Biology 836 provides students with an introduction to the scientific processes involved in the study of living organisms. Emphasis is placed on the development of writing skills as well as the use of the scientific method of problem solving. Students will gain a basic understanding of cell structure and function, energy production through photosynthesis, the food web and the ecological pyramid. Students will be presented with an overview of taxonomic classification, genetics and heredity, evolution, the nature of DNA, and the role of bacteria and viruses.

**CHEMISTRY — 837**

**Grade Level: 11**

Chemistry 837 is an introductory lab-based course where students will gain a conceptual understanding of the structure and behavior of matter. Students will be able to explain the trends evident in the periodic table and how the relationship between the properties of elements plays a role in bonding between atoms. Students will learn the principles governing chemical reactions as well as the properties of matter.

**GEOMETRY FUNDAMENTALS — 830**

**Grade Level: 11-12**

Geometry Fundamentals builds upon arithmetic skills and properties of various two- and three-dimensional forms, triangles, circles, cubes, spheres, etc. They will develop these properties within a system of reasoning called deduction.

**ALGEBRA IA FUNDAMENTALS — 821**

**Grade Level: 9**

Algebra 1A Fundamentals 821 consists of the first half of an Algebra I course. It builds upon arithmetic skills and investigates the properties of real numbers. Students will learn to evaluate and write algebraic expressions, solve equations and inequalities, solve word problems, and graph linear equations.

**ALGEBRA IB FUNDAMENTALS — 829**

**Grade Level: 10**

Algebra IB consists of the second half of an Algebra I course. It builds upon arithmetic skills and investigates the properties of real numbers. Students will learn to work with polynomials, nonlinear functions, and radicals and to analyze data.
ENGLISH 1 — 822
Grade Level: 9
English 822 is aimed at promoting awareness of school, community, self, and the world through reading and responding, viewing, listening, speaking, and writing. In addition, a variety of reading texts, literary genres, vocabulary, and grammar instruction are introduced and/or reinforced.

ENGLISH 2 — 823
Grade Level: 10
English 823 is designed as an integrated study/practice of skills and common themes within the study of American Literature. It is aimed at promoting awareness of school, community, self, and the world through reading and responding, reviewing, speaking/listening, and writing.

ENGLISH 3 — 832
Grade Level: 11
English 832 is designed as an integrated study/practice of skills and common themes in British Literature. It is aimed at promoting awareness of school, community, self, and the world through reading and responding, reviewing, speaking/listening, and writing.

ENGLISH 4 — 833
Grade Level: 12
English 4 integrates the study and practice skills in writing and usage, reading, speaking, listening, viewing, and research. The themes of identity and change as related to where the students are now, what is around them, and where they are going from here serve as the focus for the implementation of the above skills. Themes are supported by the study of nonfiction selections, which include contemporary works. Research strategies focus on the Senior Project, an intensive, inquiry-based assignment that spans the entire length of the course.

WORLD HISTORY — 845
Grade Level: 9
World History 845 provides students with the knowledge of the past needed to understand the present and future. It emphasizes the causes and impacts of events which have shaped the contemporary world. Using the themes of geography, history, culture, and religion, students will draw on a variety of activities and resources to understand the importance of seven regions of the world.

US HISTORY I — 846
Grade Level: 10
US History I 846 includes the study of American history from the Colonial Period to the Gilded Age. Core concepts focus the historical study of 18th and 19th century America with emphasis on social, political, and economic issues so that students can understand the historical background of contemporary issues and problems.

US HISTORY II — 847
Grade Level: 11
US History II 847 includes the study of American history from the post-Civil War period to the emergence of modern America. The course will examine the development of the US in five thematic units: a growing American, the United States becoming a world power, a world in crisis, post-war America, and modern America.
Special Education Department

Self-Contained Multiple Disabilities Program
The Functional Life Skills Integrated Program (FLIP) offers students the opportunity to focus on functional academic life skills, daily living skills, prevocational/vocational skills, and social interactions, while improving their overall academic potential. Prevocational and vocational skills are developed through exposure to job simulations involving operating a greenhouse, learning building trades, and maintaining buildings and grounds at our Rancocas Valley Annex site. Additionally, students will discover and develop daily living skills by experiencing the setup of a fully-functioning apartment.

Students integrate into the general education population at RV by participating in Health and Fitness and Physical Education classes plus other elective courses as determined by the IEP team. Community-based instructional (CBI) opportunities are infused into the program exposing students to meaningful and authentic community experiences. These activities bridge the gap between classroom instruction and daily life. The goal is to prepare students for independent living and gainful employment beyond high school.
## Schedule Planner

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## Sample Freshman Schedules

### Course

<table>
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<tr>
<th>Course</th>
<th>MP</th>
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<tbody>
<tr>
<td>0011 — ENGLISH I</td>
<td>S1</td>
</tr>
<tr>
<td>0065 — HEALTH &amp; FITNESS I</td>
<td>Q1</td>
</tr>
<tr>
<td>0069 — INTRODUCTION PHYSICAL EDUCATION</td>
<td>Q2</td>
</tr>
<tr>
<td>0466 — MANAGING PERSONAL FINANCE</td>
<td>Q3</td>
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<tr>
<td>0509 — ART I</td>
<td>Q4</td>
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<tr>
<td>0391 — EXPLORATORY SPANISH</td>
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<td>0185 — ALGEBRA IA</td>
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<tr>
<td>0243 — GENERAL ENVIRONMENTAL SCIENCE</td>
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<tr>
<td>0141 — WORLD HISTORY</td>
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<td>0186 — ALGEBRA IB</td>
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### Course

<table>
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<tbody>
<tr>
<td>0069 — INTRODUCTION PHYSICAL EDUCATION</td>
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<tr>
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<td>0065 — HEALTH &amp; FITNESS I</td>
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<td>0148 — INTRO TO HUMAN BEHAVIOR</td>
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<td>0140 — WORLD HISTORY HONORS</td>
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<td>0410 — ITALIAN I</td>
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<td>0520 — WORLD CRAFTS</td>
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<td>0011 — ENGLISH I</td>
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<td>0189 — ALGEBRA I HONORS</td>
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<td>0242 — HONORS ENVIRONMENTAL SCIENCE</td>
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<table>
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<tr>
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<td>0460 — INTRODUCTION TO BUSINESS</td>
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<td>0731 — INTRODUCTION ENGINEERING DESIGN</td>
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<td>0140 — WORLD HISTORY HONORS</td>
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<td>0360 — FRENCH I</td>
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<td>0252 — HONORS BIOLOGY</td>
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<td>0013 — ENGLISH I HONORS</td>
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<td>0189 — ALGEBRA I HONORS</td>
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<tr>
<td>0242 — HONORS ENVIRONMENTAL SCIENCE</td>
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### State Testing

#### Class of 2016 and 2017

**ENGLISH LANGUAGE ARTS (ELA)**
- PARCC ELA Grade 9 >= 750 (Level 4)
- PARCC ELA Grade 10 >= 750 (Level 4)
- PARCC ELA Grade 11 >= 725 (Level 3)
- SAT Critical Reading (taken before 4/1/16) >= 450
- SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) >= 450
- SAT Reading Test (taken 3/1/16 or later) >= 22
- ACT Reading or ACT PLAN Reading* >= 16
- Accuplacer WritePlace >= 8
- Accuplacer WritePlace ESL >= 4
- PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) >= 40
- PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) >= 22
- ACT Aspire Reading* >= 422
- ASVAB-AFQT Composite >= 31

Meet the criteria of the NJDOE Portfolio Appeal

**MATHEMATICS**
- PARCC Algebra I >= 750 (Level 4)
- PARCC Geometry >= 725 (Level 3)
- PARCC Algebra II >= 725 (Level 3)
- SAT Math (taken before 3/1/16) >= 40
- SAT Math Section (taken 3/1/16 or later) >= 440
- SAT Math Test (taken 3/1/16 or later) >= 22
- ACT or ACT PLAN* Math >= 16
- Accuplacer Elementary Algebra >= 70
- PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) >= 40
- PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) >= 22
- ACT Aspire Math* >= 422
- ASVAB-AFQT Composite >= 31

Meet the criteria of the NJDOE Portfolio Appeal

---

#### Class of 2018 and 2019

**ENGLISH LANGUAGE ARTS (ELA)**
- PARCC ELA Grade 9
- PARCC ELA Grade 10
- PARCC ELA Grade 11
- SAT Critical Reading (taken before 3/1/16)
- SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later)
- SAT Reading Test (taken 3/1/16 or later)
- ACT Reading or ACT PLAN Reading*
- Accuplacer WritePlace
- Accuplacer WritePlace ESL
- PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15)
- PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later)
- ACT Aspire Reading*
- ASVAB-AFQT Composite

Meet the criteria of the NJDOE Portfolio Appeal

**MATHEMATICS**
- PARCC Algebra I
- PARCC Geometry
- PARCC Algebra II
- SAT Math (taken before 3/1/16)
- SAT Math Section (taken 3/1/16 or later)
- SAT Math Test (taken 3/1/16 or later)
- ACT or ACT PLAN* Math
- Accuplacer Elementary Algebra
- PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15)
- PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later)
- ACT Aspire Math*
- ASVAB-AFQT Composite

Meet the criteria of the NJDOE Portfolio Appeal

*Test is no longer administered but can be used for the graduating year.
State Testing

Class of 2020

ENGLISH LANGUAGE ARTS (ELA)
PARCC ELA Grade 9 (must take if eligible*)
and
PARCC ELA Grade 10 (must take if eligible*)
and
PARCC ELA Grade 11 (must take if eligible*)
If passing score is not met on at least one of the three, then the student can use the following
- SAT Reading
- ACT Reading or ACT PLAN Reading**
- Accuplacer WritePlacer
- Accuplacer WritePlacer ESL
- PSAT10 Reading or PSAT/NMSQT Reading
- ACT Aspire Reading**
- ASVAB-AFQT Composite
Meet the criteria of the NJDOE Portfolio Appeal

MATHMATICS
PARCC Algebra I (must take if eligible*)
and
PARCC Geometry (must take if eligible*)
and
PARCC Algebra II (must take if eligible*)
If passing score is not met on at least one of the three, then the student can use the following
- SAT Math
- ACT or ACT PLAN Math**
- Accuplacer Elementary Algebra
- PSAT10 Math or PSAT/NMSQT Math
- PSAT10 Math or PSAT/NMSQT Math
- ACT Aspire Math**
- ASVAB-AFQT Composite
Meet the criteria of the NJDOE Portfolio Appeal

Class of 2021 and Beyond

ENGLISH LANGUAGE ARTS (ELA)
PARCC ELA Grade 10 (must take and pass)
If passing score is not met on PARCC ELA Grade 10, then the student must have taken
PARCC ELA Grade 9
and
PARCC ELA Grade 10
and
PARCC ELA Grade 11
before they can
Meet the criteria of the NJDOE Portfolio Appeal

MATHMATICS
PARCC Algebra I (must take and pass)
If passing score is not met on PARCC Algebra 1, then the student must have taken
PARCC Algebra I
and
PARCC Geometry
and
PARCC Algebra II (if eligible*)
before they can
Meet the criteria of the NJDOE Portfolio Appeal
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Level</th>
<th>Grade Level</th>
<th>Credits</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Page</th>
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<tbody>
<tr>
<td>ART I — 509</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
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<td>CERAMICS II – WHEEL THROWING/HAND BUILDING — 527</td>
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<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Ceramics I</td>
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<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>ART II — 511</td>
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<td>5</td>
<td>18 weeks</td>
<td>Art I</td>
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<td>5</td>
<td>18 weeks</td>
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<td>DRAWING — 507</td>
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<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Art I or World Crafts, and/or teacher recommendation</td>
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<td>DESIGN ELEMENTS I — 536</td>
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<td>MUSIC THEORY I — 610</td>
<td>CP</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
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<td>Honors</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
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<td>FALL CONCERT BAND — 548</td>
<td>CP</td>
<td>9-12</td>
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<td>18 weeks</td>
<td>Prior instrumental experience</td>
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<td>MUSIC LAB — 581</td>
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<td>18 weeks</td>
<td>Prior string instrumental experience</td>
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<td>APPLIED PERCUSSION — 543</td>
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<td>JAZZ STUDIES — 544</td>
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<td>9 weeks</td>
<td>Prior experience as a performing musician, teacher approval</td>
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<td>MEN’S CHORUS — 590</td>
<td>CP</td>
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<td>WOMEN’S CHORUS — 591</td>
<td>CP</td>
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<td>Women’s Chorus and/or audition</td>
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<td>CONCERT CHOIR — 592</td>
<td>Honors</td>
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<td>5</td>
<td>36 weeks</td>
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<td>CONCERT CHOIR — 593</td>
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<td>MUSICAL THEATER ENSEMBLE — 609</td>
<td>Honors</td>
<td>11, 12</td>
<td>5</td>
<td>All year</td>
<td>Teacher approval and prior enrollment in Honors Music Theater Ensemble</td>
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<td>All year</td>
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<td>THEATER PREPARATION I — 615</td>
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<td>THEATER PREPARATION II — 617</td>
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<td>9 weeks</td>
<td>Theater Preparation I</td>
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<td>PERFORMING ARTS — 616</td>
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<td>FOODS FOR WELLNESS &amp; NUTRITION — 620</td>
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<td>ADVANCED FOODS — 624</td>
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<td>Must have passed Foods for Wellness and Nutrition, teacher approval</td>
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<td>CHILD DEVELOPMENT — 629</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>NOTE: Required for students using the on-site daycare facility.</td>
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<td>TEACHING CHILDREN IN THEIR WORLD — 630</td>
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<td>INDEPENDENT LIFESTYLE — 640</td>
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<td>11, 12</td>
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<td>PRINCIPLES OF FINANCE — 466</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>This course can fulfill graduation requirement for Financial Literacy.</td>
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<td>MANAGING YOUR PERSONAL FINANCES (online) — 461</td>
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<td>This online course only fulfills graduation requirement for Financial Literacy.</td>
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<td>Grade Level</td>
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<td>BUSINESS STRATEGIES — 471</td>
<td>CP</td>
<td>10-12</td>
<td>5</td>
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<tr>
<td>BUSINESS ECONOMICS — 425</td>
<td>HONORS</td>
<td>11,12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>This course can fulfill graduation requirement for Financial Literacy.</td>
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<td>FUNDAMENTALS OF ACCOUNTING — 429</td>
<td>CP</td>
<td>10-12 Grade 9 students enrolled in Geometry will be considered</td>
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<td>SPORTS &amp; ENTERTAINMENT MARKETING — 468</td>
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<td>EXPLORING BUSINESS &amp; MARKETING — 469</td>
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<td>11,12</td>
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<td>9 weeks</td>
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<td>UNIVERSAL DESIGN FOR WEB-BASED LEARNING — 448</td>
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<td>9 weeks</td>
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<tr>
<td>FASHION RETAILING AND MERCHANDISING — 455</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<tr>
<td>PROFESSIONAL COMMUNICATIONS — 463</td>
<td>CP</td>
<td>9-12</td>
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<td>9 weeks</td>
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<td>HOSPITALITY MANAGEMENT — 450</td>
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<td>9 weeks</td>
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<td>BUSINESS LAW — 464</td>
<td>CP</td>
<td>11,12</td>
<td>2.5</td>
<td>9 weeks</td>
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<tr>
<td>GAMING DESIGN USING LITE-C PROGRAMMING — 695</td>
<td>Honors</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Concurrent enrollment in or completion of Algebra 1.</td>
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<tr>
<td>INTRODUCTION TO SOFTWARE DESIGN — 696</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
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<tr>
<td>MARKETPLACE DIGITAL LITERACY — 426</td>
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<td>2.5</td>
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<td>ENGLISH I — 011</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
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<td>ENGLISH I — 013</td>
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<td>9</td>
<td>5</td>
<td>18 weeks</td>
<td>Teacher recommendation and successful completion of the Honors Readiness Assessment.</td>
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<td>ENGLISH II — 020</td>
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<td>ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION ENGLISH III — 032</td>
<td>AP</td>
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<td>18 weeks</td>
<td>Students must have successfully completed English II, teacher recommendation</td>
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<td>ENGLISH IV ADVANCED PLACEMENT LITERATURE AND COMPOSITION — 040</td>
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<td>Students must complete English III, teacher recommendation</td>
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<td>ENGLISH IV WORLD LITERATURE — 041</td>
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<td>YEARBOOK PRODUCTION — 052</td>
<td>Pass/Fail</td>
<td>10-12</td>
<td>10</td>
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<td>FILM APPRECIATION — 045</td>
<td>CP</td>
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<td>SCIENCE FICTION — 046</td>
<td>CP</td>
<td>9-12</td>
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<td>SPORTS JOURNALISM: BETWEEN THE LINES — 048</td>
<td>CP</td>
<td>10-12</td>
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<td>SAT PREP — 005</td>
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<td>CREATIVE WRITING — 044</td>
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<td>ALGEBRA IB — 186</td>
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<td>GEOMETRY — 217</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I 190 or Algebra IB 186</td>
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<td>FOUNDATIONS OF COLLEGE MATH — 168</td>
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<td>Successful completion of Algebra II 201 or 200 and Geometry 217</td>
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<td>Successful completion of Algebra II 201 or 203 and Geometry 217</td>
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<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
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<td>INTRODUCTION TO PHYSICAL EDUCATION — 069</td>
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<td>PERSONAL LIFE DESIGN — 097</td>
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<td>FLEX &amp; CORE FOR ATHLETES — 094</td>
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<td>YOGA &amp; MEDITATION — 092</td>
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<td>9 Weeks</td>
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<td>9</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>FITNESS II AND DRIVER’S EDUCATION — 075</td>
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<td>10</td>
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<td>FITNESS III AND HEALTH III — 085</td>
<td>CP</td>
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<td>FITNESS IV AND HEALTH IV — 095</td>
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<td>DANCE TECHNIQUE I — 061</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
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<td>DANCE TECHNIQUE II — 062</td>
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<td>2.5</td>
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<td>DANCE TECHNIQUE III — 063</td>
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<td>2.5</td>
<td>9 weeks</td>
<td>Dance Technique II, teacher recommendation, audition</td>
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<td>STRENGTH &amp; CONDITIONING — 082</td>
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<td>OUTDOOR FITNESS &amp; ADVENTURE ACTIVITIES — 071</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
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<td>CARDIO BOOT CAMP — 070</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>NOTE: Includes Naval Science 5 credits, Health/Fitness 2.5 credits, and PE 2.5 credits</td>
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<td>NAVAL SCIENCE I — 293</td>
<td>CP</td>
<td>9-12</td>
<td>10</td>
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<td>Note: Includes Naval Science 5 credits, 2.5 credits Health/Fitness, and 2.5 credits Driver Education taught by certified instructor Successful completion of Naval Science I</td>
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<td>Note: Includes Naval Science 5 credits, Health/Fitness 2.5 credits and PE 2.5 credits Successful completion of Naval Science II</td>
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<td>NAVAL SCIENCE III — 296</td>
<td>CP</td>
<td>11, 12</td>
<td>10</td>
<td></td>
<td>Note: includes Naval Science 5 credits, 2.5 credits Health/Fitness and 2.5 credits First Aid taught by certified instructor Successful completion of Naval Science III</td>
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<td>NAVAL SCIENCE IV — 297</td>
<td>Honors</td>
<td>12</td>
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<td>HONORS ENVIRONMENTAL SCIENCE — 241</td>
<td>Honors</td>
<td>9</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I</td>
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<td>GENERAL ENVIRONMENTAL SCIENCE — 243</td>
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<td>9</td>
<td>5</td>
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<td>Successful completion of Algebra IB</td>
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<td>HONORS BIOLOGY — 252</td>
<td>Honors</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “B” or above in Honors Environmental Science 241 or “A” in General Environmental Science 243.</td>
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<td>GENERAL BIOLOGY — 253</td>
<td>CP</td>
<td>10, 11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Honors Environmental Science 241 or General Environmental Science 243.</td>
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<td>ADVANCED PLACEMENT BIOLOGY I — 264</td>
<td>AP</td>
<td>11, 12</td>
<td>7.5</td>
<td>27 weeks</td>
<td>Grade of “B” or above in Honors Biology 252 or “A” in General Biology 253 and teacher approval.</td>
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<td>ANATOMY &amp; PHYSIOLOGY — 287</td>
<td>Honors</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “C” or above in Honors Biology 252 or General Biology 253.</td>
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<tr>
<td>INTRODUCTION TO COLLEGE CHEMISTRY — 245</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I – 190 or Algebra IB – 186.</td>
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<td>GENERAL CHEMISTRY — 271</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “C” or above in Algebra I – 190 or Algebra 1 Honors – 189.</td>
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<td>HONORS CHEMISTRY — 272</td>
<td>Honors</td>
<td>10 - 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “B” or above in Algebra I Honors – 189 or Geometry – 218.</td>
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<td>ADVANCED PLACEMENT CHEMISTRY I — 276</td>
<td>AP</td>
<td>11, 12</td>
<td>7.5</td>
<td>27 weeks</td>
<td>Grade of “B” or above in Honors Chemistry 272 or a grade of “A” in General Chemistry 271.</td>
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<td>GENERAL PHYSICS — 247</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “B” or above in Honors Chemistry 272 or “A” in General Chemistry 271.</td>
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<td>HONORS PHYSICS — 281</td>
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<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion or concurrent enrollment in Calculus AB and teacher approval.</td>
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<td>AP PHYSICS C: MECHANICS — 282</td>
<td>AP</td>
<td>11-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Completion of AP Physics C: Mechanics and teacher approval.</td>
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<td>AP PHYSICS C: ELECTRICITY &amp; MAGNETISM — 279</td>
<td>AP</td>
<td>11-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “C” or above in Honors Biology 252 or General Biology 253.</td>
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<td>FORENSICS — 255</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Grade of C or above in Biology or Environmental Science.</td>
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<td>WEATHER — 291</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Login directions on GENESIS Course Pages.</td>
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<tr>
<td>VIRTUAL ASTRONOMY — 292</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Login directions on GENESIS Course Pages.</td>
<td>52</td>
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<td>GENETICS: A CONCEPTUAL APPROACH — 288</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Grade of C or above in Honors Biology 252 or General Biology 253.</td>
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<td>INTRODUCTION TO MICROBIOLOGY — 283</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Grade of C or above in Honors Biology 252 or General Biology 253.</td>
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<td>APP DEVELOPMENT — 258</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Home access to an Apple MacBook, Mac mini or iMac recommended.</td>
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<td>GRAPHIC ARTS I — 680</td>
<td>CP</td>
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<td>9 weeks</td>
<td>Login directions on GENESIS Course Pages.</td>
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<td>CP</td>
<td>9-12</td>
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<td>CONSTRUCTION TECHNOLOGIES — 718</td>
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<td>2.5</td>
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<td>ENERGY &amp; POWER TECHNOLOGY — 705</td>
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<td>VIDEO PRODUCTION &amp; EDITING — 729</td>
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<td>Year</td>
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<td>Level</td>
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<td>Course Title</td>
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<td>Spanish I and Spanish II with teacher recommendation</td>
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<td>10</td>
<td>36 weeks</td>
<td>Approval of World Language Supervisor</td>
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</tbody>
</table>
Administration

Dr. Chris Heilig, Ed.D., Superintendent
Ms. Lisa Giovanelli, Business Administrator/Board Secretary
Mr. Joseph R. Martin, Principal
Mr. William Connolly, Director of Curriculum & Instruction
Mr. Mike Donnelly, Director of Special Services
Mr. William Booth, Assistant Principal
Mrs. Letitia Brinin, Assistant Principal
Mr. Ronald Wence, Assistant Principal
Mr. Anthony Lotierzo, Athletic Director

Department Supervisors

Dr. Jocelyn Brown, Special Education
Mr. George Hatziandreou, Mathematics
Mr. Stephen Joseph, English & World Language
Mr. Anthony Lotierzo, Physical Education/Health & NJROTC
Mr. Ronald J. Maniglia, Science & Technology/PLTW, RVTV, and Business
Ms. Jean Marie Seal, Social Studies & Fine/Performing Arts/FACS

Rancocas Valley Regional High School affirms the rights of all students to pursue an educational program without regard to race, creed, gender, national origin, or handicapping condition.