Rancocas Valley Regional High School
Program of Studies
2020-2021
Rancocas Valley Regional High School
2020-2021 Program of Studies

Mission Statement
The Rancocas Valley Regional High School District, a forward-thinking learning institution, empowers every student with the knowledge and skills to be a contributing member of the community by providing meaningful curricular and extracurricular experiences.

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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 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 assessment requirements in both English language arts (ELA) and mathematics, and they provided an additional update in June 2019. 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.

The high school assessment graduation requirements that are in place for the Classes of 2019, 2020, 2021, and 2022 are as follows:

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

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

Note: Special Education students, whose Individualized Education Plans (IEPs) specify an alternative way to demonstrate proficiencies, will continue to follow the graduation assessment requirements set forth in their IEPs.

The list of assessment requirements for ELA and mathematics for the high school graduation classes of 2020 through 2022, as well as the proficiency levels/cut scores, can be found on page 94 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.

### Required Courses & Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>20</td>
</tr>
<tr>
<td>Math</td>
<td>15</td>
</tr>
<tr>
<td>Science</td>
<td>15</td>
</tr>
<tr>
<td>Social Studies</td>
<td>15</td>
</tr>
<tr>
<td>World Language</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>10</td>
</tr>
<tr>
<td>Health Education</td>
<td>10</td>
</tr>
<tr>
<td><strong>Vocational Technical Education (VOC)</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Visual &amp; Performing Arts (VAP)</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Financial, Economic Business &amp; Entrepreneurial Literacy</strong></td>
<td>2.5</td>
</tr>
<tr>
<td>Non-Specific Academic and/or Elective Courses</td>
<td>27.5</td>
</tr>
</tbody>
</table>

### Academic Sequence Chart

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10 Grade</th>
<th>11 Grade</th>
<th>12 Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
<td>English II</td>
<td>English III</td>
<td>English IV</td>
</tr>
<tr>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>Academic or Elective</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Academic or Elective</td>
</tr>
<tr>
<td>History</td>
<td>History</td>
<td>History</td>
<td>Academic or Elective</td>
</tr>
<tr>
<td>World Language</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
</tr>
<tr>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
</tr>
<tr>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
<td>Academic or Elective</td>
</tr>
</tbody>
</table>

**Math:** Algebra IA & Algebra IB or Algebra I; Geometry; and Algebra II  
**Science:** Biology, and one year from the following courses: Chemistry, Environmental Science or Physics, and a third inquiry-based course  
**History:** World History; US History I; US History II  
**World Language:** 1 year required; recommended 2 or more years of the same world language for 4-year college/university-bound students
General Information

<table>
<thead>
<tr>
<th>Grade Level Credit Requirements</th>
<th>Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>10th Grade Homeroom</td>
<td>Grade</td>
</tr>
<tr>
<td>32.5 credits</td>
<td>A</td>
</tr>
<tr>
<td>11th Grade Homeroom</td>
<td>B</td>
</tr>
<tr>
<td>65 credits</td>
<td>C</td>
</tr>
<tr>
<td>12th Grade Homeroom</td>
<td>D</td>
</tr>
<tr>
<td>97.5 credits</td>
<td>E</td>
</tr>
<tr>
<td>Graduation</td>
<td>F</td>
</tr>
<tr>
<td>130 or more credits</td>
<td></td>
</tr>
</tbody>
</table>

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 May 6, 2020.
- Incoming freshmen will also have until May 6, 2020, to petition for any level changes. Parents are to direct all level change requests directly to department supervisors and not school counselors.
- 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 a 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**

For AP classes and honors classes with summer work, no level changes or drops may be made after July 10, 2020. Because of limited seats in these classes, we are asking students and parents to think carefully about the level of demand and commitment required in these courses.

For all other courses, drop/add and level changes should be limited to the following guidelines:

**Add:**

- first two days of every quarter/semester depending upon seat availability.

**Drop:**

- until the first interim report date for the course.

For courses dropped during the first two weeks of every quarter/semester, grades are not reflected on the transcript. After two weeks and until the first interim report, a WF or WP grade will be assigned as the grade on the transcript.

**Level changes:**

- first three weeks with approval of department supervisor depending upon seat availability.

*Grade transfers due to level changes will be as described below:

We will use the RV grading scale on the next page as a guide. A majority of level changes involve a student dropping a level, and so when students drop a level, they will have 7 points added to their averages. For example, a student earning a 70 in an honors course would transfer into a college prep course with a 77. This reflects the rigor of the work in the honors class, prior to the level change.
<table>
<thead>
<tr>
<th>Numeric Value</th>
<th>AP Weighted</th>
<th>Honors Weighted</th>
<th>Accelerated 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>5.50</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>5.17</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>4.83</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>4.50</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>4.17</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>3.93</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>3.50</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>3.17</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>2.83</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>2.50</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>2.17</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>1.83</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>
<td>0.00</td>
</tr>
</tbody>
</table>

**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 classwork and accept all other classroom responsibilities.

Students who choose this option can at a later date elect to receive grades and credits for the AU course. To receive grades and credits, the student must notify his/her counselor before September 15th for the first quarter and fall semester courses; November 16th for second-quarter courses; February 15th for the 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.

**Athletic and Extracurricular Activities**
- All freshmen are eligible for the fall and winter sports seasons.
- All sophomores and juniors must attain 15 credits during the fall semester of the current school year to participate in sports or extracurricular activities during the spring season.
- All sophomores and juniors must attain 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.
- Seniors must attain 15 credits during the fall semester of the current school year AND be enrolled in a minimum of two (2) courses per quarter in the spring semester equaling 10 credits to be eligible to participate in spring athletics.
General Information

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

NAVIANCE STUDENT
Naviance Student is a comprehensive student-centered life planning service available to all RVRHS students. Naviance Student empowers the student, family, and counselor to work together in planning for success during and beyond high school. Juniors can use Naviance Student for college searches, career searches, and portfolio-building for senior year. All college applications will be sent electronically through Naviance Student unless otherwise required by the college/university. Any student who is not familiar with the program should contact his/her guidance counselor. Additional information can be found through the Naviance Student 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 (World History and US History I & II), and three additional units in any of the areas previously listed. 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 before the testing date. Students are encouraged to register online at www.collegeboard.org for the SAT and www.actstudent.org for ACT. Students eligible for special testing accommodations as per their Individualized Education Plan (IEP) or 504 Plan should contact either their case manager or counselor before 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 18 AP classes and encourages students to both take those rigorous classes (where there are an appropriate interest and commitment) and pursue the AP credit (transferable to colleges all over the world) by taking the AP exam. RVRHS will assist students
however it can in affording, preparing for, and succeeding in AP classes and exams. Fee waivers for the AP exam are available for students who qualify for free or reduced lunch.

**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

<table>
<thead>
<tr>
<th>AP COURSE</th>
<th>RCBC COURSE(S)</th>
<th>COURSE NAME</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Biology</td>
<td>BIO-103; BIO-104; BIO-107; BIO-108</td>
<td>General Biology I (&amp; Lab); General Biology II (&amp; Lab)</td>
<td>8</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>MTH-118</td>
<td>Calculus I and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>MTH-118 &amp; MTH-119</td>
<td>Calculus I and Analytic Geometry; Calculus II and Analytic Geometry</td>
<td>8</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>CHE-115; CHE-116; CHE-117; CHE-118</td>
<td>General Chemistry I (&amp; Lab); General Chemistry II (&amp; Lab)</td>
<td>8</td>
</tr>
<tr>
<td>AP English Lang and Comp</td>
<td>ENG-101</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>AP English Lit and Comp</td>
<td>ENG-102</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>BIO-130 &amp; BIO-131</td>
<td>Environmental Science and Lab</td>
<td>4</td>
</tr>
<tr>
<td>AP European History</td>
<td>HIS-104</td>
<td>Modern European History</td>
<td>3</td>
</tr>
<tr>
<td>AP French Lang and Culture</td>
<td>FRE-101; FRE-102; FRE-201; FRE-202</td>
<td>Elementary French I &amp; II; Intermediate French I &amp; II</td>
<td>12</td>
</tr>
<tr>
<td>AP Italian Lang and Culture</td>
<td>ITA-101; ITA-102; ITA-201; ITA-202</td>
<td>Elementary Italian I &amp; II; Intermediate Italian I &amp; II</td>
<td>12</td>
</tr>
<tr>
<td>AP Physics C: Electricity &amp; Magnetism</td>
<td>PHY-212 &amp; PHY-213</td>
<td>General Physics II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AP Physics C: Mechanics</td>
<td>PHY-210 &amp; PHY-211</td>
<td>General Physics I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>PSY-101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AP Spanish Lang and Culture</td>
<td>SPA-101; SPA-102; SPA-201; SPA-202</td>
<td>Elementary Spanish I &amp; II; Intermediate Spanish I &amp; II</td>
<td>12</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>MTH-107</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>AP US Govt and Politics</td>
<td>POL-101</td>
<td>American National Gov and Politics</td>
<td>3</td>
</tr>
<tr>
<td>AP United States History I</td>
<td>HIS-101</td>
<td>United States History I</td>
<td>3</td>
</tr>
<tr>
<td>AP United States History II</td>
<td>HIS-102</td>
<td>United States History II</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RVRHS COURSE</th>
<th>RCBC COURSE</th>
<th>COURSE NAME</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Production</td>
<td>ETV-105</td>
<td>Editing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>TV Broadcasting</td>
<td>ETV-101</td>
<td>TV Production (Studio)</td>
<td>4</td>
</tr>
<tr>
<td>Honors Pre-Calculus</td>
<td>MTH-130</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>ART III Honors</td>
<td>ART-110</td>
<td>Design I</td>
<td>3</td>
</tr>
</tbody>
</table>
General Information

RV students also have the opportunity to enroll in selected online courses offered by RCBC for college credit. Available courses for RCBC credit (not included on an RVRHS student transcript) include:

- Cinema (American Cinema).
- Education (Historical Foundations of American Education).
- Psychology (Introduction to Psychology).
- Theatre (Introduction to Theatre).

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 Exam 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.

ADDITIONAL DUAL ENROLLMENT OPPORTUNITIES
- Students enrolled in Project Lead the Way should refer to that section of the Program of Studies for information regarding college credits from the Rochester Institute of Technology.
- 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.
- Students enrolled in Sociology are eligible for college credit through Fairleigh Dickinson University.
- Students enrolled in Genocide Studies are eligible for college credit through Stockton University.

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 Guidance Office by March 30, 2020 will result in a study hall being placed on the student’s schedule instead of Early Dismissal.
STUDENT IN GOOD STANDING

<table>
<thead>
<tr>
<th>Student in Good Standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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 class trips and the senior and/or junior proms if a student is not in good standing at the time of the class trip and/or prom.</td>
</tr>
</tbody>
</table>

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 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 Before Grade 9
- Independent Study
- Physical Education Exemption
- Technical Theatre

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 serious health or family concerns may be considered for early graduation. Students must submit their request in writing before the completion of their sophomore year. Minimal requirements must be met to be eligible for early graduation.
General Information

Students must successfully pass all State-mandated testing requirements. Students can earn 40 credits a year during the regular school day hours. 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
Graduating students must complete the exit survey in Naviance Student before graduation indicating 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 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 four categories:

- **Advanced Placement**: College-level academic instruction.
- **Honors**: High academic challenge for competitive four-year colleges.
- **Accelerated**: Rigorous challenge for 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 divided by the number of credits attempted for the course. The unweighted 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>Accelerated Weighted</th>
<th>College Prep Weighted</th>
<th>Standard Courses</th>
<th>Nonweighted Courses (All)</th>
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<td>99-100</td>
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General Information

Example of Weighted GPA Calculation

<table>
<thead>
<tr>
<th>Course</th>
<th>Final Grade</th>
<th>Numerical Value</th>
<th>Credit Value x</th>
<th>Quality Points</th>
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Weighted GPA = 4.2328

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<th>Credit Value x</th>
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Unweighted GPA = 3.133

The report card will reflect both the weighted and unweighted grade-point averages at the end of each semester. 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.

SUMMER COMPLETION

RVRHS 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. 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 before starting or registering for any coursework. No course may extend beyond August 8th. All course requirements must be completed to receive a diploma. 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 to update the student’s transcript. The grade
General Information

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 RVRHS. 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.
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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.

TECHNOLOGY TEACHING ASSISTANT - 1801-1806
(Pass/Fail)
Grade Level: 9-12
Credits: 0.5
Length: 9 or 18 weeks
Students may apply to serve as a technology teaching assistant (under the guidance of our Media Center and technology staff) as members of a “help desk” team that will assist staff and students with school-distributed technology devices and other duties related to instructional technology. Integrity, work ethic, and technology proficiency will be considered via an application and interview process. Students can apply to participate during student prep or study hall.
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NCAA COLLEGE-BOUND STUDENTS ACADEMIC ELIGIBILITY REQUIREMENTS

Students wanting to participate in athletics or receive an athletics 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 that 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
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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 requirements 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 has 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 requirements.**

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 the 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 general interest in Art are recommended to complete a combination of the following courses: Art I • Design I • Ceramics I • World Crafts.

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

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

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 • As many additional art courses as possible.

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 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 – BEGINNER 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, opening, lifting and shaping. Students will make cylinders, mugs, bowls, bottles, and plates. They will learn to glaze and decorate their pottery to create a finished, safe and usable surface. Students will learn through demonstration, projected images, and actual examples, how humans have created artworks using the potter’s wheel, that is beautiful, functional, and unique to time and place.

DESIGN I ADOBE PHOTOSHOP — 536
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Design 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 design while creating digital art. The computer application Adobe Photoshops will be utilized throughout this course. A number of image selection and alteration tools will be utilized within the Photoshop application. The
use of these tools in conjunction with numerous Image manipulation techniques will be covered. Other art mediums such as marker and colored pencils will also supplement the digital work created.

**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: Asian Printing and Japanese Bookmaking, Islamic Tessellations, Celtic Illuminated Letters, Egyptian Hieroglyphic Painting, and Spanish Art: Panamanian Mola Art and Mexican Painting. Drawing, painting and designing with a variety of materials will be emphasized, as well as an extensive study of the Elements and Principles of art as applied to original crafts projects. Students will also be exposed to multicultural traditions and geography in the visual arts.

**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.

**CERAMICS II — INTERMEDIATE WHEEL THROWING and HANDBUILDING — 527**  
*(College Preparatory)*  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Ceramics I  
Ceramics II fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This nine-week course provides a more advanced level for creating functional pottery forms on the potter’s wheel and by hand forming. Building techniques that include pinching, coiling, extruding, wheel throwing and slab-forming will be taught. A variety of techniques will be presented that will allow the students to create numerous items, including a carved candle holder, a lidded jar, a Native American pot, a clip and dip set, a hanging planter, a textured bowl, a mask and numerous other functional and sculptural objects.
DESIGN II ADOBE ILLUSTRATOR — 528
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Design Elements I
Design 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 thought-provoking projects. Students will use their pre-established knowledge of the elements of design while developing an understanding of the principles of design. All projects will begin with an extensive development procedure and follow up with the utilization of the Adobe Suite of computer applications. Developing a working knowledge of the Adobe Illustrator application will be a focal point during this course.

ART III — 513
(Honors)
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Prerequisite: Art I, Art II and teacher recommendation
Art III fulfills the Visual & Performing Arts (VAP) graduation requirement. This course is an advanced level studio experience for the student who has shown the skills required to pursue further education/career options in the visual arts. Students will need to demonstrate high-level thinking and skills to solve various topics of art areas, both traditional and non-traditional. At the conclusion of the course, students will have exhibited critical thinking through themes, ideas and methods of art. For those seeking entry into post-secondary programs, portfolio preparation will include taking slides and/or video for use in the college application process. Successful completion of a summer assignment is required for this course. Students must download their assignment and pick up their materials in June before leaving for summer vacation.

CERAMICS III – ADVANCED WHEEL THROWING and HANDBUILDING — 537
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Ceramics I, Ceramics II and teacher recommendation
Ceramics III fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. This course provides an advanced level for creating functional pottery forms on the potter’s wheel or by hand forming. Many techniques will be presented that will allow the students to develop sophisticated levels of sensitivity, attitudes, and skills to approach creative pottery from a personal criterion. This class is designed for students with a strong foundation in ceramics and pottery making. Students will be provided with demonstrations, projected images, and actual examples but will be allowed greater freedom in the creation of their work and will be expected to create work that is meaningful and deliberate.
DESIGN III: CAREERS IN DESIGN — 531  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Design I and Design II  
Design 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.

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 and the work of their peers. Art history and contemporary artists will also be discussed. This course is essential for students preparing portfolios and who plan to attend college for any major in the arts.

Performing Arts

SPECIAL TOPICS IN MUSIC — 543  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
This course fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Special Topics is a non-performance-based music appreciation course that provides an overview of music history. Topics will include parallels between music and visual art of various historical periods, music and politics, exploration of an ethno-music topic of the class’s choice, music, and the economy, and contemporary music. The course will include a visit to a live music event.

POP GOES THE MUSIC — 544  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
This course fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. POP Goes the Music will give students the opportunity to learn about the history of popular American music and its impact on American society and culture. Starting with roots music up through modern pop music.
MUSIC THEORY I — 610  
(College Preparatory)  
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Prior music experience, teacher approval  
Music 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 an 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.

MUSIC TECHNOLOGY — 580  
(College Preparatory)  
Grade Level: 9-12  
Credits: 2.5  
Length: 9 weeks  
Music Technology fulfills 2.5 credits of the Visual and Performing Arts (VAP) graduation requirement. This course will introduce students to some of the most commonly used software and hardware for creating and producing musical content. Within Digital Audio Workstations (DAWs) like Garage Band and Logic Pro X, students gain hands-on experience recording with authentic and virtual MIDI instruments, creating and using loops, developing vocal and instrumental microphone technique, and using music notation software. The class will emphasize both creativity and process along with analysis and critical response in a series of projects. The ideal student for this course has an interest in recording, arranging, producing music of all kinds and possesses some experience playing and/or singing in either a popular or classical tradition, and is comfortable reading either chord charts or conventional music notation. Students interested in the Music Technology course are invited to contact the instructor, Mr. Britton, for more information.
Fine & Performing Arts and Consumer Science Department

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 music performance experience or teacher approval
Music Lab provides all music students with the opportunity to learn, improve, and refine their musical skills and understandings. Students in the “Performance Track” work individually or in groups on selected repertoire in preparation for the end-of-quarter recital. Students in the “Songwriting & Composition Track” will develop their songwriting, composition and/or production skills, using an assortment of technology tools and resources. Students will receive regular coaching and guidance through one-on-one work with the teacher. Students with a background in instrumental and/or vocal music are eligible to enroll.

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.
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.

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.

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.

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 the study of the history and styles of rock and popular 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 performance at the end of the marking period, featuring covers and original music! Rock Lab is open to guitarists, bassists, 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 that 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. The Women’s Chorus is a vocal ensemble that 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. Women’s Chorus members receive instruction in fundamental vocal technique and music theory.

**VOICES — 585 (formerly WOMEN’S ENSEMBLE)**
*(College Preparatory)*
Grade Level: 9-12  
Credits: 5  
Length: 18 weeks  
Prerequisites: Women’s Chorus and/or audition; teacher approval  
Voices fulfills the Visual & Performing Arts (VAP) graduation requirement. It is a performance-based vocal music course for women of all grade levels by audition into the RV choir program or teacher placement based upon an evaluation of work and performance in Women’s Chorus 591. Building on the foundations of Women’s Chorus, Voices expands technique for advanced vocal performance, aural and written music vocabulary, and high-level repertoire. Students will study and perform many styles, including excerpts from Broadway musicals, classical, folk, sacred, and pop music. Students will have opportunities to perform at concerts and attend workshops and shows. Students will analyze performances, performance practice, musical scores, as well as objectively critique music, performances, and performers. Students will read, write, and decipher music.
CONCERT CHOIR — 593  
(College Preparatory)  
Grade Level: 9 - 11  
Credits: 5  
Length: 36 weeks alternating A/B Days  
Prerequisites: Audition and teacher approval  
NOTE: This course is a year-long class.  
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 — 592 (available to Class of 2021 only; will not be available after the 2020-2021 school year)  
(Honors)  
Grade Level: 12  
Credits: 5  
Length: 36 weeks alternating A/B Days  
Prerequisites: Audition, teacher approval, and prior enrollment in Honors Concert Choir  
NOTE: This course is a year-long class.  
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: 9 -12  
Credits: 2.5  
Length: 18 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 being offered. Opportunities to participate in master classes or collaborate with guest artists are also offered.
COLLEGIUM — 549  
(Honors)  
Grade Level: 9-12  
Credits: 2.5  
Length: 18 weeks (A/B Days)  
Prerequisite: At least one semester of another choral course and/or teacher approval.  
This course fulfills 2.5 credits of the Visual & Performing Arts (VAP) graduation requirement. Collegium is a performance-based vocal music course for students of all grade levels by audition into the RV choir program or teacher placement based upon an evaluation of work and performance in Women’s Chorus 591, Men’s Chorus 590, Musical Theater Ensemble, or Voices 585. Building on the foundations of other choral music courses, Collegium expands upon technique for advanced vocal performance, aural and written music vocabulary, and high-level repertoire. Students will study and perform many styles of music derived from master composers and arrangers. Students will have opportunities to perform in concerts and attend workshops and shows. Music will be chosen based upon the makeup of the students in the course. An emphasis will be placed on authentic performance practice. Students will analyze performances, performance practice, musical scores, as well as objectively critique music, performances, and performers. Students will also read and decipher music.

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 instills confidence and communicative structure within each individual student through artistic acting experiences.

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 techniques. 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.
ADVANCED ACTING AND PRODUCTION (formerly PERFORMING ARTS) — 616
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of Theater Preparation I and II or audition
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 an improved sense of body and voice.

CREATIVE COMMUNICATION (formerly 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. The course is a study and practice of creative public presentation. Students are challenged artistically to create new, innovative, ways to appear and lead their peers. Students will perform every day in class through communication games & exercises, creative writing, expressive mini speeches, artistic performances, and formal demonstrations. P2P Communications is centered on teaching practical and useful applications of effective public presentation skills for future educational and occupational use.

TECHNICAL THEATRE (OPTION II) — 619
(Pass/Fail)
Grade Level: 9-12
Credits: 5 maximum
Length: 36 weeks
Prerequisite: Approval of instructor
This is a full-year course that will focus on the developmental skills and procedures used in the technical and production aspects of theatre. Because it is an Option II course, Technical Theatre class will run outside of the regular school day; students can earn credit by participating in afterschool and evening/weekend activities through which they will demonstrate their skill and knowledge in the technical and production elements of performing arts. Topics covered in the course will include design research and principles; painting and construction techniques; equipment use and maintenance; principles and application of sound, lighting, and computer technology; the use of special effects; theatre safety; and the function of technical stage personnel in production work. The student will be responsible for transportation before and after events. Absence or tardiness to events without prior notice will affect the student’s grade.

Credits for this course are determined by the number of hours fulfilled by the student. If all components of the program have been satisfied, the student's transcript will reflect the credits earned. A student may earn a maximum of 5 credits for 120 hours during the school year. These credits will count toward the Visual and Performing Art credit requirement.
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.

INTRODUCTORY FOODS — 620
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Introductory Foods 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. Students learn how to read and follow a recipe, organize ingredients and work safely/efficiently in the kitchen. Many basic cooking skills are practiced, such as baking, sautéing, boiling and stir-frying. Students learn to safely operate and maintain high-quality kitchen equipment such as blenders, handheld mixers, griddles, electric fry pans, and full kitchen cookware sets. Life and career skills are practiced with opportunities to collaborate with fellow classmates, think critically to problem solve and to work creatively with new technologies. Cleaning and organizing are frequently incorporated into the curriculum. Students exit the class with many practice life skills that will enhance their quality of life.

ADVANCED FOODS — 624
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Introductory Foods and 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 birth to age 3. 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 the third year. Activities will focus on the 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 the relationship of learning through play. The “Baby Think It Over,” the baby simulation, 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.

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.
The Business Department course offerings are intended to provide students with a foundation in the basic principles governing financial citizenship

MANAGING YOUR PERSONAL FINANCES (ONLINE) — 461
(College Preparatory)
Grade Level: 11, 12
Credits: 2.5
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. Please note that this course has specific weekly deadlines for assignments and assessments.
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.

PRINCIPLES OF FINANCE — 466
(College Preparatory)
Grade Level: 10-12
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 of opening and successfully operating a business. Students will conduct situational, market, and competitive analyses; select a target market; develop a business plan; control the 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.
INTRODUCTION TO SUPPLY CHAIN MANAGEMENT — 472
(College Prep)
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Introduction to Supply Chain Management fulfills the credits of the Career and Vocational-Technical Education (VOC) graduation requirement. This course will enable students to practice innovative and critical thinking skills as they solve contextual problems related to the concepts of supply chains. Students will understand the roles of logistics and supply chain management in a global economy where individuals and organizations have access to markets across the world. Topics discussed will include determining warehouse location, planning for contingencies, insourcing and outsourcing, and maximizing the use of resources across distribution networks through inventory management, transportation optimization, and the efficient use of information technologies. Students will gain an appreciation of the impact of cultural awareness, business ethics, and international trade restrictions related to the challenges of conducting business in a world with multiple borders.

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 the 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 considerations that apply to market 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 of organizational communication, human resources management, entrepreneurship, accounting, finance, and leadership.

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; storefront 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 the 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. After identifying their personal written and oral communication styles, students will prepare a cover letter and resume for an employment position based upon their preparation of a business profile. Students will participate in a mock job interview conducted by an RV staff member before holding a simulated business meeting. Students will prepare an eLearning professional presentation to demonstrate their digital leadership skills in a real-world setting. The course concludes with students analyzing survey data and conducting a live web conference.
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 concerning 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 successful 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. 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 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 Accelerated, Honors or AP level courses will be responsible to complete a summer assignment, which will be available to students in June.

ENGLISH I
English I is the first course of the four-year English program required for graduation. This course will provide the student with the communication skills necessary for a rigorous, multi-year college or training program. It is a survey course focusing on close reading, academic writing, research, vocabulary, and grammar through a variety of texts, including novels, plays, poetry, and non-fiction works. Outside reading and writing assignments, and higher-order thinking skills are required.

ENGLISH I — 010
(Honors)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisites: Teacher recommendation and successful completion of a skills-based reading/writing assessment.
NOTE: In addition to substantial outside reading and writing assignments, mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

ENGLISH I — 013
(Accelerated)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisites: Teacher recommendation and successful completion of a skills-based reading/writing assessment
NOTE: Mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.
English Department

ENGLISH I — 011
(College Preparatory)
Grade Level: 9
Credits: 5
Length: 18 weeks

ENGLISH II
English II is the second course of the four-year English program required for graduation. This challenging course provides the student with the communication skills necessary for a rigorous, multi-year college or training program. Studying both thematic and genre-based approaches to American literature, students will read a variety of texts including novels, plays, poetry, and non-fiction works. Students will continue to refine their academic writing skills, complete a research project, and study and incorporate advanced vocabulary into their writing and speaking. Outside of the classroom, self-paced reading and writing assignments, research, and higher-order thinking skills are required.

ENGLISH II — 020
(Honors)
Grade Level: 10
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English I and teacher recommendation
NOTE: In addition to substantial outside reading and exceptional writing ability, mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

ENGLISH II — 023
(Accelerated)
Grade Level: 10
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English I and teacher recommendation
NOTE: Mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

ENGLISH II — 021
(College Preparatory)
Grade Level: 10
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English I
ENGLISH III
English III is the third course of the four-year English program required for graduation. The demands of this course provide students with the communication skills necessary for a rigorous, multi-year college or training program. A literature-based course, English III requires students to manage more than one text in a unit. Studying both thematic and genre-based approaches to British literature, students will read a variety of texts including novels, plays, poetry, and non-fiction works. Required self-paced reading, research, and composition will be accomplished outside the classroom. Students will continue to refine their academic writing skills, complete a research project, and study and incorporate advanced vocabulary into their writing and speaking.

ENGLISH III — 030
(Honors)
Grade Level: 11
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English II and teacher recommendation
NOTE: In addition to substantial outside reading and exceptional writing ability, mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

ENGLISH III — 033
(Accelerated)
Grade Level: 11
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English II and teacher recommendation
NOTE: Mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

ENGLISH III — 031
(College Preparatory)
Grade Level: 11
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of English II

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: Successful completion of English II and 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. Mandatory summer readings and a written assessment based on those readings will be administered.

**ENGLISH IV**

English IV is the fourth course of the four-year English program required for graduation. The demands of this course provide students with the communication skills necessary for a rigorous, multi-year college or training program. A literature-based course, English IV requires students to manage more than one text in a unit. Studying both thematic and genre-based approaches to world literature, students will read a variety of texts including novels, plays, poetry, and non-fiction works. Selections from the Ancient Middle East, Europe, Asia, Africa, and Latin America are used to support the course themes. Required self-paced reading, research, and composition will be accomplished outside the classroom. Students will continue to refine their academic writing skills, complete a research project, and study and incorporate advanced vocabulary into their writing and speaking. Formal and informal speaking assessments will be inculcated.

**ENGLISH IV — 043**

(Accelerated)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English III and teacher recommendation
NOTE: Mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

**ENGLISH IV — 041**

(College Preparatory)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of English III

**ADVANCED PLACEMENT LITERATURE AND COMPOSITION — 040**

(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: English III and teacher recommendation
NOTE: In addition to substantial outside reading and exceptional and exceptional writing ability, mandatory summer work, including a written assessment, is required to establish a foundation of knowledge prior to entering the class.

Advanced Placement Literature and Composition emphasizes the college-level study of world literature, research, and composition. Both thematic and genre-centered approaches to literature are studied, and much of the material is individually prescribed. 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.

**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 that 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 that 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 an 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 scenes. Students will prepare written pieces of current/local events, research currents sports issues, synthesize
English Department

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
the 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 — 049
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Journalism is an introduction to both print and online media. The course emphasizes the power of
communication in writing and provides techniques and practice for writing news, features, reviews,
editorials, and columns, and for incorporating news photography. Students will also learn approaches to
investigative reporting and will learn the code of ethics to which journalists adhere. Students will
examine the role of the objective reporter as well as the role of the press in society. The following skills
will also be covered: headline construction, copyediting, and caption writing. Student work will be
considered for publication in the school newspaper.
ENGLISH FOR ENGLISH LANGUAGE LEARNERS (ELL) — 352
(College Preparatory)
Grade Level: 9-12
Credits: 10
Length: 36 weeks
Prerequisites: Approval of World Language Supervisor
This English course is designed to aid students whose first language is other than English. The course implements all five English language proficiency WIDA standards to develop all areas of language acquisition. Along with focused literacy instruction, students will receive support for concurrent studies in general education. Students are formally tested for proper placement and are given an annual standardized test (ACCESS for ELLs) to determine whether their English language skills fall within the designated limits of the class.
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. Students are required to demonstrate proficiency in Algebra I, Geometry, and Algebra II but it is strongly suggested that students continue their mathematical studies.

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 department provides varied instruction to meet the needs of all learners. Instruction in all classes reinforces the New Jersey Student Learning Standards and the skills needed to productively occupy today’s rapidly changing society. All courses are assigned a level of difficulty in one of four categories. In structuring these levels, the following criteria have been established:

1. Complexity of content
2. Abstract reasoning
3. Integration of previously learned material
4. Frequency of independent assignments

All courses require specific tasks (review) to be completed during the summer recess, and they are 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: go to the “Students” tab and select “Summer Coursework.”*

Based on a combination of good practice, growing research and the new state testing requirements, Rancocas Valley Regional High School Math Department requires all students that are enrolled in Algebra 1, Geometry or Algebra 2 to purchase and utilize a graphing and programmable calculator. There are many types of graphing calculators available on the market today. Although a specific calculator will not be required, the courses will be taught using the TI-84 Plus and TI-84 Silver Editions. Other calculators may not have the same capabilities; therefore, it is strongly recommended that each student has access to a calculator from the TI-84 series.
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ALGEBRA I
The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Many of the concepts presented in Algebra I are progressions of the concepts that were started in grades 6 through 8. Because it is built on the middle grades’ standards, this is a more ambitious version of Algebra I than has generally been offered. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. This course will involve work with more complicated equations and inequalities, functions and their graphs, systems of equations, polynomials, factoring, and various other topics. Students should be proficient in working with fractions and decimals without a calculator. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Requirement: Graphing calculator, TI-84 recommended.

ALGEBRA I — 189
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Note: Freshmen enrollment in this course is based upon their performance on the 8th Grade Mathematics Assessment.

ALGEBRA I — 190
(Accelerated)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Note: Freshmen enrollment in this course is based upon their performance on the 8th Grade Mathematics Assessment.

ALGEBRA IA/IB — 185/186
(College Preparatory)
Grade Level: 9, 10
Credits: 5 each
Length: 18 weeks each
Note: Freshmen enrollment in this course is based upon their performance on the 8th Grade Mathematics Assessment.

GEOMETRY
The fundamental purpose of the course is to formalize and extend students’ geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school standards. The class starts with
two-dimensional geometry and its functional uses, and it is extended to coordinate with three-dimensional geometry. Topics from non-Euclidean geometry and trigonometry are also covered. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Requirement:** Graphing Calculator, TI-84 recommended.

**GEOMETRY — 218**
(Honors)
Grade Level: 9, 10
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra 1 (189 or 190) and teacher recommendation
Note: Incoming Freshman can place in this course only by successfully meeting the Option II requirements

**GEOMETRY — 216**
(Accelerated)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra 1 (190) and teacher recommendation

**GEOMETRY — 217**
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra 1

**ALGEBRA II**
Continuing with and building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, logarithmic and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms as well as working with and solving problems involving sequences and series. The student will strengthen, and expand the skills learned in Algebra I. Topics include Probability and Statistics, Complex Numbers, Quadratic, Polynomial, Radical, Rational, Logarithmic and Trigonometric Functions. There will be a concentration on the more difficult problems in each area of the course content. Additionally, this course builds on the previous knowledge from geometry or trig ratios in order to model periodic phenomena. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Requirement:** Graphing calculator, TI-84 recommended.
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ALGEBRA II & TRIGONOMETRY — 203
(Honors)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra (190 or 189), Geometry (218 or 216) and teacher recommendation

ALGEBRA II — 201
(Accelerated)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I (190) and Geometry and teacher recommendation

ALGEBRA II — 200
(College Preparatory)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I (190 or 186) and Geometry (217 or 216)

PRE-CALCULUS
Trigonometry and Pre-Calculus weave together previous studies of algebra, geometry, and functions into a preparatory course for Calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; and systems of equations. Additional topics cover trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, science, and a variety of other fields related to mathematics. The course focuses on three critical areas: function analysis, trigonometry, and an introduction to calculus. These areas are designed to prepare students for success in future advanced mathematics courses. Graphing, problem-solving, and analysis are stressed. (Graphing calculator use is emphasized. The use of technology is infused to gather, analyze, and communicate mathematical information.)

PRE-CALCULUS — 222
(Honors)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II & Trigonometry (203) and teacher recommendation
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PRE-CALCULUS — 221
(Accelerated)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II and Geometry, and teacher recommendation

Additional Mathematics Elective Courses

FOUNDATIONS OF COLLEGE MATH — 168
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra II and Geometry.
Our emphasis in this course will be a practical one: the use of mathematics for solving problems. These problems may arise in various fields and a variety of real-life situations. Any student intending to attend a community college or a state college or university would benefit from this course, which will focus on these skills tested by a College Basic Skills Test. Topics will include the following: set theory, logic, problem-solving, discrete mathematics, probability, and statistics in addition to some application of algebra and geometry.

ADVANCED PLACEMENT CALCULUS (AB) — 223
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Successful completion of Honors Pre-Calculus (222) and teacher recommendation
AP Calculus is a course intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry, and analytic geometry. It is an introduction to calculus with elementary functions. The topics in the scope of the course are divided into three broad categories: limits and continuity, differential calculus, and integral calculus. Students will receive instruction that emphasizes topics found on the AP Calculus exam.

ADVANCED PLACEMENT CALCULUS (BC) — 225
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of AP Calculus (AB) (223)
AP Calculus BC is roughly equivalent to both first and second-semester college calculus courses. It extends the content learned in AB to different types of equations (polar, parametric, vector-valued) and new topics (such as Euler’s method, integration by parts, partial fraction decomposition, and improper integrals), and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus
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concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

CALCULUS — 228
(Honors)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Pre-Calculus (221 or 222)

This course is intended for those students who have successfully completed Pre-Calculus. Thorough knowledge of algebra, geometry, and trigonometry is mandatory. The fundamental purpose of this course is to develop the students’ understandings of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are also important. Students will learn to appreciate the value of calculus as the mathematics of change and motion. The course will prepare students for further study in all branches of higher mathematics, science, and related fields. Topics that will be included are limits and continuity, differentiation with applications, and integration with applications. Calculus is not only the language for expressing physical laws in precise terms, but it is also a tool for studying these laws. Technology is used regularly to reinforce these approaches, to confirm written work, to implement experimentation, and to assist in interpreting results. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

STATISTICS — 231
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of any level of Algebra II

An understanding of basic probability and statistics is vital for nearly all careers, as well as for most standardized testing. Probability and Statistics is a yearlong mathematics course for students planning a career in business, science, education, engineering, accounting, law, medicine, math, or communications as well as those who have an interest in mathematics. The course will focus on calculating, understanding, interpreting, and applying descriptive and inferential statistics, probabilities, experimental design, and construction of confidence intervals and with an overall emphasis on their applications in our world. Some of the topics in this course include random samplings, permutations and combinations, and frequency distributions. In addition, you will study the measures of variability and learn how to test hypotheses. Students are exposed to four broad conceptual themes:

- Theme 1: Describing patterns and departures from patterns
- Theme 2: Planning and conducting a study
- Theme 3: Anticipating Patterns: Exploring random phenomena using probability and simulation
- Theme 4: Statistical Inference: Estimating population parameters and testing
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ADVANCED PLACEMENT STATISTICS — 232  
(Advanced Placement)  
Grade Level: 11, 12  
Credits: 7.5  
Length: Year  
Prerequisite: Successful completion of Algebra II (203) and teacher recommendation  
The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics source: exploring data, sampling, and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

- Theme 1: Describing patterns and departures from patterns  
- Theme 2: Planning and conducting a study  
- Theme 3: Anticipating Patterns: Exploring random phenomena using probability and simulation  
- Theme 4: Statistical Inference: Estimating population parameters and testing

NOTE: There is a required summer assignment for this course due on the first day of class.

SAT PREP MATHEMATICS — 167  
(College Preparatory)  
Grade Level: 10, 11  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Students must have completed Algebra I and Geometry before enrolling in this course.  
This elective course is designed to assist students with the mathematics portion of the SAT assessment. In addition to mathematics topics such as Fundamentals, Algebra, Advanced Arithmetic, Functions and Graphs, and Geometry, students will be taught test-taking techniques along with methodologies to improve performance on the SAT.

COMPUTER SCIENCE DISCOVERIES — 233  
(College Prep)  
Grade Level: 9, 10  
Credits: 2.5  
Length: 9 weeks  
NOTE: This course can be taken for elective credit only and does not fulfill mathematics or vocational credit requirements.

Computer Science Discoveries introduces students to computer science as a vehicle for problem-solving, communication, and personal expression. As a whole, this class focuses on the visible aspects of computing and computer science and encourages students to see where computer science exists around them and how they can engage with it as a tool for exploration and expression. Students will look outward and explore the impact of computer science on society. Students will see how a thorough user-centered design process produces a better application, how data is used to address problems that affect larger numbers of people, and how physical computing with circuit boards allows computers to collect input and return output in a variety of ways.
Health & 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 emphasize 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
To support 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 (092)
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.

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 lectures, 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 lectures, 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 programs 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 mindsets, 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 scorecard 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.

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 lectures, 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, a portion is 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 bloodborne 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 and 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 the 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
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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.**

**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 to instill 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
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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 a 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.
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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 a 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 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 phenomena, 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, and Genetics: A Conceptual Approach, which does 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.

ENVIRONMENTAL SCIENCE
Environmental Science is a comprehensive lab-based course where students will evaluate environmental issues, including the management of natural resources, the production and use of energy, waste management systems, and the interdependence of ecosystems. 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 design and conduct experiments 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. Students will identify environmental problems and justify possible solutions to them using scientific, economic, and other data. 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.

NOTE: Freshmen enrollment in this course is based upon an evaluation of 8th-grade science grades and performance on the 8th Grade Science Assessment.

ENVIRONMENTAL SCIENCE — 241
(Honors)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I (189) for students in grades 10-12

ENVIRONMENTAL SCIENCE — 242
(Accelerated)
Grade Level: 9
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra I (189 or 190) for students in grades 10-12
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ENVIRONMENTAL SCIENCE — 243
(College Preparatory)
Grade Level: 9  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Algebra 1A/IB (185/186) for students in grades 10-12

BIOLOGY
The lab-based Biology course focuses on solving real-world problems through an application of scientific method involving a comprehensive study of the cycles of matter and energy as it applies to living organisms. Students will gain an understanding of cell structure and function, energy production through photosynthesis, the food web, and the ecological pyramid. Topics under study will include taxonomic classification, genetics and heredity, evolution, the nature of DNA, and the role of bacteria and viruses.

BIOLOGY — 252
(Honors)
Grade Level: 9, 10  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Environmental Science (241 OR 242)  
Note: Freshmen who fulfill the above requirements during the first semester are eligible to enroll in Biology 252 during the second semester.

BIOLOGY - 251
(Accelerated)
Grade Level: 10, 11  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Environmental Science and teacher recommendation

BIOLOGY — 253
(College Preparatory)
Grade Level: 10, 11  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Environmental Science

CHEMISTRY
Chemistry 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. 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 classical 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.

**CHEMISTRY — 272**  
(Honors)  
Grade Level: 10 - 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Algebra I (189 OR 190) AND Biology (251 OR 252) and teacher recommendation

**CHEMISTRY — 271**  
(Accelerated)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Algebra I (190 OR 186) AND Biology and teacher recommendation

**CHEMISTRY — 245**  
(College Preparatory)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Algebra I (190 OR 186) AND Biology

**PHYSICS**  
Physics is a lab-based course that requires students to apply mathematical principles to solve practical problems. 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, thermodynamics, wave phenomenon, and the fundamental principles of electricity and magnetism.

**PHYSICS — 281**  
(Honors)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Chemistry (271 OR 272) AND Algebra II (201) and teacher recommendation

**PHYSICS — 247**  
(College Preparatory)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Chemistry (245)
Advanced Placement Elective Courses

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE - 244
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Successful completion of Biology (251 OR 252) and teacher recommendation
AP Environmental Science 244 is an introductory college-level course designed to engage students in the scientific principles, concepts, and methodologies needed to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; thus, students will explore topics from geology, biology, environmental studies, environmental science, chemistry, and geography as part of their learning. As such, this course is intended for students with a strong command of basic biology, chemistry, and mathematics. All course material will be tailored to the College Board’s AP Environmental Science standards and assessment. Students are strongly encouraged to take the Environmental Science Advanced Placement examination or earn credit through the College Accelerated Program (CAP).

ADVANCED PLACEMENT BIOLOGY — 264
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Successful completion of Biology (252 OR 253) and teacher recommendation
AP Biology 264 is equivalent of a college introductory biology course taken by biology majors during the first year of undergraduate study. Advanced Placement Biology differs from the first high school biology course concerning the range and depth of topics discussed, the extensive laboratory work required, and the time and effort expected from students. General areas of study include organic chemistry, cellular biology and metabolism, genetics and biotechnology, evolutionary biology, biodiversity, human anatomy and physiology, embryology and development, and botany. Advanced Placement Biology 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 Science Advanced Placement examination or earn credit through the College Accelerated Program (CAP).

ADVANCED PLACEMENT CHEMISTRY — 276
(Advanced Placement)
Grade Level: 11, 12
Credits: 7.5
Length: 27 weeks
Prerequisite: Successful completion of Chemistry (271 OR 272) and teacher recommendation
AP Chemistry 276 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 or earn credit through the College Accelerated Program (CAP).

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 (223)
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 phenomena 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 Physics C: Mechanics Advanced Placement examination or earn credit through the College Accelerated Program (CAP).

ADVANCED PLACEMENT PHYSICS C: ELECTRICITY & MAGNETISM — 279
(Advanced Placement)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of AP Physics C: Mechanics (282)
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 phenomena 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 Physics C: E & M Advanced Placement examination or earn credit through the College Accelerated Program (CAP).

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.
Additional Elective Science Courses

ANATOMY & PHYSIOLOGY — 287  
(Honors)  
Grade Level: 11, 12  
Credits: 5  
Length: 18 weeks  
Prerequisite: Successful completion of Biology (252 OR 253) and teacher recommendation  
The lab-based Anatomy and Physiology course provides students with an in-depth understanding of the human body and its internal workings. 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.

FORENSICS — 255  
(College Preparatory)  
Grade Level: 10-12  
Credits: 2.5  
Length: 9 weeks  
Prerequisite: Successful completion of Biology.  
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: Successful completion of 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 are integral to the course.
GENETICS: A CONCEPTUAL APPROACH — 288
(College Preparatory)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Successful completion of Biology (251 OR 252)
Every individual carry 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: Successful completion of Biology (251 OR 252)
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 their world-wide pandemic implications. Laboratory investigations will focus on microscopic identification and isolation methods commonly used by the clinical technician.

INTRODUCTION TO GEOGRAPHY INFORMATION SYSTEMS — 289
(Honors)
Grade Level: 10-12
Credits: 2.5
Length: 9 weeks
Prerequisite: Successful completion of Environmental Science (241 OR 242)
Introduction to Geography Information Systems is a lab-based survey course of computer-based techniques in the storage, retrieval, analysis, and representation of spatially referenced data. Students will apply GIS technology to geologic problems such as natural hazard mapping, surface runoff and erosion, and environmental impact assessment. The need for energy, environmental protection, and responsible resource management is projected to spur demand for geoscientists skilled in the use of GIS.
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 a 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. 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.

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. 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.

**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.
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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 to 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 become aware of the constraints placed upon engineers given design specifications and various other limiting factors.

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 focuses on the basic skills for the use of hand and power machines in working with wood. Emphasis is placed on the function and safe operation of various tools and 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. 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.

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.

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 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.
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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, the 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.

GRAPHIC ARTS PRODUCTION — 682
(Honors)
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Graphic Arts II (681) with teacher approval
Graphic Arts Production fulfills the Career and Vocational-Technical Education (VOC) graduation requirement. This course offers students practical experience in digitally designing and screen-printing producing single and multi-color products for sale to school-based organizations and individuals within the RV surrounding communities. Working independently and in small group teams, students will gain
experience in meeting the demand for high-quality products in a real-world environment beginning with
the approval of customer designs through the delivery of the merchandise. Students will collaborate
with peers enrolled in the Business Strategies course in the marketing, pricing, and financial
management of the graphics shop.

**VIDEO PRODUCTION & EDITING — 729**
*(College Preparatory)*
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Audio & Video Technology (698) and 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 advanced 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) and 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, copywriting 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 — 726**
*(College Preparatory)*
Grade Level: 10-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of TV Broadcasting (730) and 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, scriptwriters, 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,
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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.
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Project Lead The Way (PLTW) Pathway to Engineering™

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 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 2019.

The registration form can be printed at https://www.rit.edu/emcs/pltw/undergraduate-credit/students-and-parents. RIT will send the student a transcript at the end of the semester in which he/she registers for credit. 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. Students who apply to colleges other than RIT may request that a transcript be sent to those schools at https://www.rit.edu/academicaffairs/registrar/transcripts.

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.
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 on 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: Successful completion of 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: Successful completion of 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
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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.

ENGINEERING DESIGN & DEVELOPMENT — 735
(Honors)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of 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.
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 AP 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**
World History provides students with the knowledge to make connections between the past and the present when exploring current trends and events in the world today. Using the themes of geography, history, culture, and religion, students will draw on a variety of activities and resources to understand the importance of past cultural experiences, relations between/among societies, historical background, and geographical aspects.

**WORLD HISTORY — 140**
(Honors)
Grade Level: 9
Credits: 5
Length: 18 weeks
NOTE: Freshmen enrollment in this course is based upon criteria collected during the Honors Readiness Assessment review process.

**WORLD HISTORY — 142**
(Accelerated)
Grade Level: 9
Credits: 5
Length: 18 weeks
NOTE: Freshmen enrollment in this course is based upon criteria collected during the Honors Readiness Assessment review process.

**WORLD HISTORY — 141**
(College Preparatory)
Grade Level: 9
Credits: 5
Length: 18 weeks
UNITED STATES HISTORY I
United States History I focused on the study of American history from the Colonial Period through World War I. Core Concepts focus on the historical study of 18th and 19th century America with an emphasis on social, political, and economic issues so that students can understand the historical background of contemporary issues and problems.

ADVANCED PLACEMENT US HISTORY I (formerly US I Honors)—113
(Advanced Placement)
Grade Level: 10
Credits: 5
Length: 18 weeks
Prerequisite: Teacher recommendation
AP United States History I emphasizes cultural awareness and critical thinking while preparing students for the AP exam. It is a quick-moving, single-semester study of American History from the Colonial Period to Reconstruction, high-lightening the years 1842-1877. The activities in 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. Successful completion of a summer assignment, distributed via Google Classroom in June, is required for this course. CAP credit is available for this course.

US HISTORY I — 112
(Accelerated)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
Prerequisite: Teacher recommendation

US HISTORY I — 111
(College Preparatory)
Grade Level: 10, 11
Credits: 5
Length: 18 weeks
UNITED STATES HISTORY II
US History II is a survey of modern American life from the beginning in the 1920s and continuing 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 and 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.

US HISTORY II — 122
(Accelerated)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of US History I and teacher recommendation

US HISTORY II — 121
(College Preparatory)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of US History I

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

ADVANCED PLACEMENT PSYCHOLOGY — 150
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisite: Teacher recommendation
AP 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.

ADVANCED PLACEMENT AMERICAN GOVERNMENT & POLITICS — 152
(Advanced Placement)
Grade Level: 11, 12
Credits: 5
Length: 18 weeks
Prerequisites: Successful completion of US History I and teacher recommendation
AP U.S. Government and Politics is a college-level 18-week course that not only seeks to prepare students for success on the AP Exam in May but also provides students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society. This political science course studies the interconnectedness of the different parts of the American political system and the behaviors and attitudes that shape this system and are the byproduct of this system. 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 and 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. Successful completion of a summer assignment is required for this course. Students must download their assignment in June before leaving for summer break.

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.

SOCIOLOGY — 149
(College Preparatory)
Grade Level: 10-12
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, and elder abuse. 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. CAP credit available.

9-Week Elective Courses
These courses are intended for the student seeking a rigorous course of study in preparation for 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-CONFLICT RESOLUTION — 159
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Peace Studies introduces students to a broad range of issues, concepts, and approaches integral to the study of peace and conflict. This course investigates the following question: How can we humans manage the conflicts between us so that these conflicts result in justice and creative progress rather than destruction? These conflicts may be international, or within a society, or personal. Hence, the problem of managing conflict exists in three arenas: In our own personal lives (within us and in our personal relationships), in local communities and the society in which we live, and in our relations with other states and nations in the world. The course will address conflict on all three of these levels and making use of material from many disciplines such as psychology, sociology, government, economics, and international diplomacy.
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GENOCIDE STUDIES — 157
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
In Genocide Studies, students will look at what happens when prejudice and discrimination flourish, and individuals and governments fail to take a stand against injustice. The course begins by looking at the history of human rights and events leading to the coining of the term Genocide. After defining the term, we will dive into the psychology of perpetrators and bystanders of genocide and the role that these actors play. Then through case studies of 20th and 21st-century genocides, students will take a look at the various aspects of genocide— the causes, the stages, the abuses and suffering, the actors, resistance, responses, the effects, and the lessons learned. Each semester the case studies may change depending on current events, but always present will be the Armenian Genocide, the Holocaust, and the Cambodian Genocide. In addition to the aspects of genocide, emphasis will also be placed on genocide prevention and how nations and individuals can work to prevent future genocides. Ultimately, students will define their role as responsible citizens of the world and implement these understandings into their everyday lives. CAP credit available through Stockton University.

LATINO STUDIES — 135
(College Preparatory)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
What do Cardi B, Jennifer Lopez, and Pitbull have in common? In addition to topping the music charts, they are members of our country’s rapidly growing Latin American community. Did you know that by the middle of this century, 1 out of every 3 Americans will be of Latino descent? Ask yourself this: Will they vote mostly Republican or Democrat? Will our children learn both English and Spanish? This exciting course will explore the incredible contributions Latin Americans have made in music, politics and to our armed services. In addition, we will tackle hot topics such as hurtful stereotypes and modern-day immigration issues. These 9 eye-opening weeks are guaranteed both to inform and excite you about our country’s future. Welcome—Bienvenidos.

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.

MODERN AMERICAN HISTORY (formerly 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 that have shaped the nation since the early 1990s. We will be examining both the political and cultural landscape of these years. How have these last three decades shaped the current political, social, economic, and cultural landscape of the United States? This is an opportunity to better understand the country you live in and the events and happenings that impact you as a teenager today.

INTERNATIONAL DIPLOMACY — 160
(Honors)
Grade Level: 9-12
Credits: 2.5
Length: 9 weeks
Prerequisite: World History, currently enrolled in an Honors English or Social Studies course, or teacher recommendation.
International Diplomacy is a Social Studies elective that is modeled after the highly successful Model UN Program. The course begins studying the origins, role, and functions of the United Nations, including the various bodies within the United Nations, such as the Security Council, General Assembly, Economic Council, Social Council, International Court of Justice and specialized agencies. Students will employ analysis as they examine modern issues, research and develop proposals to address them, and engage in debate to develop agreeable solutions.
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.

- Advanced Placement (AP) courses in Spanish, French, and Italian 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**

**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. General knowledge of the geography and lifestyles of the Francophone world 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. General knowledge of the geography and lifestyles of the Francophone world 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 an 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, 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 with teacher recommendation  
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.

NOTE: French (Levels IV & V)  
Beginning with the 2021-2022 school year, the world language department will offer a French V course. At that time, French V will become the new Advanced Placement course and French IV will transition to the honors level.

In order to take AP French V during the 2021-2022 school year, students should enroll in two French courses within the same year. Sample course selection:  
- Freshman year: French I  
- Sophomore year: French II  
- Junior year: French III & IV  
- Senior year: French V AP

Beginning with the 2021-22 school year, CAP credit will be offered for French V AP through RCBC.
World Language Department

ITALIAN

EXPLORATORY ITALIAN — 411
(Standard)
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. 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, but students considering college are encouraged to pursue further study of the language.

ITALIAN I — 410
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisites: Students enrolling from Exploratory Italian 411 must have teacher recommendation
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.

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 an added emphasis on reading, writing, 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.

ADVANCED PLACEMENT ITALIAN IV — 415
(Advanced Placement)
Grade Level: 12
Credits: 5
Length: 18 weeks
Prerequisites: Italian I, II, & III with teacher recommendation
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.

SPANISH

EXPLORATORY SPANISH — 391
(Standard)
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. 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, but students considering college are encouraged to pursue further study of the language.
SPANISH I — 390
(College Preparatory)
Grade Level: 9-12
Credits: 5
Length: 18 weeks
Prerequisite: Students enrolling from Exploratory Spanish 391 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. General knowledge of the geography and lifestyles 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 with teacher recommendation
Spanish III is an intermediate 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 an 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 an intermediate 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-
World Language Department

speaking countries are brought to the forefront with an 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 an advanced 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 an 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 with teacher recommendation
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.
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 the learning deficiencies, unique learning styles, and emotional needs of classified students. Resource courses provide a smaller educational setting with a maximum of nine students (without an aide) 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.

SCIENCE

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.

MATHEMATICS

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.

ALGEBRA II FUNDAMENTALS — 831
Grade Level: 11-12
Credits: 5
Length: 18 weeks
Prerequisite: Successful completion of Algebra IA Fundamentals 821, Algebra 1B Fundamentals 829 and Geometry Fundamentals 830
Algebra II Fundamentals builds upon the concepts introduced in Algebra 1A and 1B Fundamentals. Solving and graphic functions, such as linear, absolute value, quadratic, rational, and polynomial will be studied. Emphasis will be placed on modeling real-world data with mathematical functions and using these models to make predictions.

ENGLISH

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.

SOCIAL STUDIES

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 that 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 on the historical study of 18th and 19th century America with an 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.
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, working in food service and sales 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

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>CR</th>
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**Total Credits (CR) 130**

### Sample Freshman Schedules

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<tbody>
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<td>0011 — ENGLISH I</td>
<td>S1</td>
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<tr>
<td>0065 — HEALTH &amp; FITNESS I</td>
<td>Q1</td>
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<tr>
<td>0069 — INTRODUCTION PHYSICAL EDUCATION</td>
<td>Q2</td>
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<tr>
<td>0466 — MANAGING PERSONAL FINANCE</td>
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<td>0509 — ART I</td>
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<td>0391 — EXPLORATORY SPANISH</td>
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<td>0185 — ALGEBRA IA</td>
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<td>0243 — ENVIRONMENTAL SCIENCE</td>
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<td>0141 — WORLD HISTORY</td>
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<tr>
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<td>Q1</td>
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<tr>
<td>0460 — INTRODUCTION TO BUSINESS</td>
<td>Q2</td>
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<td>0065 — HEALTH &amp; FITNESS I</td>
<td>Q3</td>
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<tr>
<td>0148 — INTRO TO HUMAN BEHAVIOR</td>
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<tr>
<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>0360 — FRENCH I</td>
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<td>0252 — BIOLOGY</td>
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<td>0242 — ENVIRONMENTAL SCIENCE</td>
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ELA and Mathematics Assessment Graduation Requirements for the Classes of 2019, 2020, 2021, and 2022

This document reflects the high school graduation assessment requirements for the Classes of 2019, 2020, 2021, and 2022, pursuant to an amended Consent Order received by the NJDOE from the Appellate Division of the Superior Court of New Jersey on June 5, 2019.

The requirements for the Class of 2019, including the cut scores, remain unchanged from the requirements that were applied to the Classes of 2017 and 2018. These requirements now apply to the Classes of 2020, 2021, and 2022.

<table>
<thead>
<tr>
<th>Pathways Available</th>
<th>English Language Arts/Literacy (ELA)</th>
<th>Mathematics</th>
</tr>
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</table>
| **First Pathway:**  
Demonstrate proficiency in the high school end-of-course NISLA/PARCC assessments in ELA-10 and/or Algebra I | NISLA/PARCC ELA Grade 10 ≥ 750 (Level 4)                                                        | NISLA/PARCC Algebra I ≥ 750 (Level 4)                                      |
|                                                                                   | NISLA/PARCC ELA Grade 9 ≥ 750 (Level 4), or<br>SAT Critical Reading (taken before 3/1/16) ≥ 400, or<br>SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) ≥ 450, or<br>SAT Reading Test (taken 3/1/16 or later) ≥ 22, or<br>ACT Reading or ACT PLAN Reading ≥ 16, or<br>ACCUPLACER WritePlacer ≥ 6, or<br>ACCUPLACER WritePlacer ESL ≥ 4, or<br>PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) ≥ 40, or<br>PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) ≥ 22, or<br>ACT Aspire Reading ≥ 422, or<br>ASVAB-AFQT Composite ≥ 31 | NISLA/PARCC Geometry ≥ 725 (Level 3), or<br>NISLA/PARCC Algebra II ≥ 725 (Level 3) or<br>SAT Math (taken before 3/1/16) ≥ 400, or<br>SAT Math Section (taken 3/1/16 or later) ≥ 440, or<br>SAT Math Test (taken 3/1/16 or later) ≥ 22, or<br>ACTION or ACT PLAN Math ≥ 16, or<br>ACCUPLACER Elementary Algebra ≥ 76, or<br>Next-Generation ACCUPLACER Quantitative Reasoning, Algebra, and Statistics (QAS) (beginning January 2019) ≥ 255, or<br>PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) ≥ 40, or<br>PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) ≥ 22, or<br>ACT Aspire Math ≥ 422, or<br>ASVAB-AFQT Composite ≥ 31 |
| **Second Pathway:**  
Demonstrate proficiency in English language arts and/or mathematics by meeting the designated cut score on one of the alternative assessments |                                                                                                   |                                                                            |
| **Third Pathway:**  
Demonstrate proficiency in English language arts and/or mathematics through Portfolio Appeals | Meet the criteria of the NJDOE Portfolio Appeal for ELA                                          | Meet the criteria of the NJDOE Portfolio Appeal for Math                    |

1 Test is no longer administered but can be used for the graduating year.

2 Beginning on Monday, January 28, 2019, classic ACCUPLACER tests were no longer available. QAS replaced ACCUPLACER Elementary Algebra.
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<tr>
<th>Course Title</th>
<th>Level</th>
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<td>DRAWING — 507</td>
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<td>18 weeks</td>
<td>Prior music experience OR teacher approval</td>
<td>20</td>
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<tr>
<td>MUSIC THEORY II — 611</td>
<td>Honors</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Music Theory I or equivalent or teacher approval</td>
<td>20</td>
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<tr>
<td>MUSIC TECHNOLOGY — 580</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>FALL CONCERT BAND — 548</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>18 weeks</td>
<td>Prior instrumental experience</td>
<td>21</td>
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<tr>
<td>MUSIC LAB — 581</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Prior instrumental experience, teacher approval</td>
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<tr>
<td>WIND ENSEMBLE — 542</td>
<td>Honors</td>
<td>11, 12</td>
<td>5</td>
<td>36 weeks</td>
<td>Audition, teacher approval, and prior enrollment in Honors Wind Ensemble</td>
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<td>WIND ENSEMBLE — 541</td>
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<td>9, 10</td>
<td>5</td>
<td>36 weeks</td>
<td>Audition, teacher approval</td>
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<td>SPRING CONCERT BAND — 539</td>
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<td>2.5</td>
<td>18 weeks</td>
<td>Prior band instrumental experience</td>
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<td>ORCHESTRA — 550</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>Prior string instrumental experience</td>
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<td>ROCK LAB — 545</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>MEN’S CHORUS — 590</td>
<td>CP</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
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<td>WOMEN’S CHORUS — 591</td>
<td>CP</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
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<td>VOICES (WOMEN’S ENSEMBLE) — 585</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>Women’s Chorus and/or audition</td>
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<td>CONCERT CHOIR — 592</td>
<td>Honors</td>
<td>12</td>
<td>5</td>
<td>36 weeks</td>
<td>Audition, teacher approval, and prior enrollment in Honors Concert Choir</td>
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<td>CONCERT CHOIR — 593</td>
<td>CP</td>
<td>9-11</td>
<td>5</td>
<td>36 weeks</td>
<td>Audition and teacher approval</td>
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<tr>
<td>MUSICAL THEATER ENSEMBLE — 609</td>
<td>Honors</td>
<td>9-12</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>COLLEGIUM — 549</td>
<td>Honors</td>
<td>9-12</td>
<td>2.5</td>
<td>18 weeks</td>
<td>At least one semester of another choral course and/or teacher approval</td>
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<td>THEATER PREPARATION I — 615</td>
<td>CP</td>
<td>9-12</td>
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<td>9 weeks</td>
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<td>THEATER PREPARATION II — 617</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Theater Preparation I</td>
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<td>ADVANCED ACTING AND PRODUCTION — 616</td>
<td>CP</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Theater Preparation II</td>
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<tr>
<td>CREATIVE COMMUNICATION — 618</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>TECHNICAL THEATRE (OPTION II) — 619</td>
<td>Pass/Fail</td>
<td>9-12</td>
<td>5 (max)</td>
<td>36 weeks</td>
<td>Approval of instructor</td>
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<td>INTRODUCTORY FOODS — 620</td>
<td>CP</td>
<td>9-12</td>
<td>5</td>
<td>18 weeks</td>
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<td>ADVANCED FOODS — 624</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Introductory Foods and teacher approval</td>
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<tr>
<td>CHILD DEVELOPMENT — 629</td>
<td>CP</td>
<td>9-12</td>
<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>
<td>CP</td>
<td>11,12</td>
<td>5</td>
<td>18 weeks</td>
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<td>PRINCIPLES OF FINANCE — 466</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>This course can fulfill graduation requirement for Financial Literacy.</td>
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<tr>
<td>MANAGING YOUR PERSONAL FINANCES (online) — 461</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
<td>This online course only fulfills graduation requirement for Financial Literacy.</td>
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<td>Course Title</td>
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<td>Grade Level</td>
<td>Credits</td>
<td>Length</td>
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<tr>
<td>BUSINESS STRATEGIES — 471</td>
<td>CP</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td></td>
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<td>INTRODUCTION TO SUPPLY CHAIN MANAGEMENT — 472</td>
<td>CP</td>
<td>11-12</td>
<td>5</td>
<td>18 weeks</td>
<td>This course can fulfill graduation requirement for</td>
<td>29</td>
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<td>Financial Literacy.</td>
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<td>BUSINESS ECONOMICS — 425</td>
<td>HONORS</td>
<td>11,12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>FUNDAMENTALS OF ACCOUNTING — 429</td>
<td>CP</td>
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<td>10-12 Grade 9 students enrolled in Geometry will be considered</td>
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<tr>
<td>SPORTS &amp; ENTERTAINMENT MARKETING — 468</td>
<td>CP</td>
<td>11,12</td>
<td>2.5</td>
<td>9 weeks</td>
<td></td>
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<td>EXPLORING BUSINESS &amp; MARKETING — 469</td>
<td>CP</td>
<td>11,12</td>
<td>2.5</td>
<td>9 weeks</td>
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<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>
<td>2.5</td>
<td>9 weeks</td>
<td></td>
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<td>HOSPITALITY MANAGEMENT — 450</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>BUSINESS LAW — 464</td>
<td>Honors</td>
<td>11, 12</td>
<td>2.5</td>
<td>9 weeks</td>
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<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>
<td>9 weeks</td>
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<td>MARKETPLACE DIGITAL LITERACY — 426</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>ENGLISH I — 010</td>
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<td>5</td>
<td>18 weeks</td>
<td>Teacher recommendation and successful completion of a skills-based reading/writing assessment.</td>
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<tr>
<td>ENGLISH I — 013</td>
<td>ACC</td>
<td>9</td>
<td>5</td>
<td>18 weeks</td>
<td>Teacher recommendation and successful completion of a skills-based reading/writing assessment.</td>
<td>34</td>
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<tr>
<td>ENGLISH I — 011</td>
<td>CP</td>
<td>9</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English I and teacher recommendation</td>
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<td>ENGLISH II — 020</td>
<td>Honors</td>
<td>10</td>
<td>5</td>
<td>18 weeks</td>
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<td>Course Title</td>
<td>Level</td>
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<td>Credits</td>
<td>Length</td>
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<tr>
<td>ENGLISH II — 023</td>
<td>ACC</td>
<td>10</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English I and teacher recommendation</td>
<td>35</td>
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<tr>
<td>ENGLISH II — 021</td>
<td>CP</td>
<td>10</td>
<td>5</td>
<td>18 weeks</td>
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<td>35</td>
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<td>ENGLISH III — 030</td>
<td>Honors</td>
<td>11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English II and teacher recommendation</td>
<td>36</td>
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<tr>
<td>ENGLISH III — 033</td>
<td>ACC</td>
<td>11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English II and teacher recommendation</td>
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<tr>
<td>ENGLISH III — 031</td>
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<td>11</td>
<td>5</td>
<td>18 weeks</td>
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<tr>
<td>ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION</td>
<td>AP</td>
<td>11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English II and teacher recommendation</td>
<td>36</td>
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<td>ENGLISH IV — 042</td>
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<td>Successful completion of English III and teacher recommendation</td>
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<td>18 weeks</td>
<td>Successful completion of English III</td>
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<td>ENGLISH IV ADVANCED PLACEMENT LITERATURE AND COMPOSITION</td>
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<td>12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of English III and teacher recommendation</td>
<td>37</td>
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<tr>
<td>YEARBOOK PRODUCTION — 052</td>
<td>Pass/Fail</td>
<td>10-12</td>
<td>10</td>
<td>36 weeks</td>
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<td>FILM APPRECIATION — 045</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>SCIENCE FICTION — 046</td>
<td>CP</td>
<td>9-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<tr>
<td>SPORTS JOURNALISM: BETWEEN THE LINES — 048</td>
<td>CP</td>
<td>10-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>SAT PREP — 005</td>
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<td>11-12</td>
<td>2.5</td>
<td>9 weeks</td>
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<td>JOURNALISM — 049</td>
<td>CP</td>
<td>9-12</td>
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<td>9 weeks</td>
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<td>CREATIVE WRITING — 044</td>
<td>CP</td>
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<td>2.5</td>
<td>9 weeks</td>
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<td>ENGLISH FOR ENGLISH LANGUAGE LEARNERS (ELL) — 352</td>
<td>CP</td>
<td>9-12</td>
<td>10</td>
<td>36 weeks</td>
<td>Approval of World Language Supervisor</td>
<td>40</td>
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<td>ALGEBRA I — 189</td>
<td>Honors</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
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<td>ALGEBRA I — 190</td>
<td>ACC</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
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<td>43</td>
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<td>ALGEBRA IA/IB — 185/186</td>
<td>CP</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra 1 (189 or 190) and teacher recommendation</td>
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<td>GEOMETRY — 218</td>
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<td>GEOMETRY — 216</td>
<td>ACC</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra 1 (190) and teacher recommendation</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 1</td>
<td>44</td>
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<td>ALGEBRA II &amp; TRIGONOMETRY — 203</td>
<td>Honors</td>
<td>10, 11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra (190 or 189), Geometry (218 or 216) and</td>
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<td>ALGEBRA II — 201</td>
<td>ACC</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra (190) and Geometry and teacher recommendation</td>
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<td>ALGEBRA II — 200</td>
<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra II &amp; Trigonometry (203) and teacher</td>
<td>45</td>
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<td>recommendation</td>
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<td>PRE-CALCULUS — 222</td>
<td>Honors</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra II and Geometry, and teacher</td>
<td>45</td>
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<tr>
<td>PRE-CALCULUS — 221</td>
<td>ACC</td>
<td>10-12</td>
<td>5</td>
<td>18 weeks</td>
<td></td>
<td>46</td>
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<td>FOUNDATIONS OF COLLEGE MATH — 168</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra II and Geometry.</td>
<td>46</td>
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<tr>
<td>ADVANCED PLACEMENT CALCULUS AB — 223</td>
<td>AP</td>
<td>11, 12</td>
<td>7.5</td>
<td>27 weeks</td>
<td>Successful completion of Honors Pre-Calculus (222) and teacher recommendation</td>
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<tr>
<td>ADVANCED PLACEMENT CALCULUS BC — 225</td>
<td>AP</td>
<td>12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of AP Calculus (AB) (223)</td>
<td>46</td>
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<tr>
<td>CALCULUS — 228</td>
<td>Honors</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Pre-Calculus (221 or 222)</td>
<td>47</td>
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<tr>
<td>STATISTICS — 231</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of any level of Algebra II</td>
<td>47</td>
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<td>ADVANCED PLACEMENT STATISTICS — 232</td>
<td>AP</td>
<td>11, 12</td>
<td>7.5</td>
<td>Year</td>
<td>Successful completion of Algebra II (203) and teacher recommendation</td>
<td>48</td>
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<td>SAT PREP MATHEMATICS — 167</td>
<td>CP</td>
<td>10, 11</td>
<td>2.5</td>
<td>9 weeks</td>
<td>Students must have completed Algebra I and Geometry before enrolling in</td>
<td>48</td>
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<td>this course</td>
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<td>NOTE: This course can be taken for elective credit only and does not fulfill</td>
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<td>mathematics or vocational credit requirements.</td>
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<td>Grade Level</td>
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<td>OFFICIATING — 090</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>Dance Technique II, teacher recommendation, audition</td>
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<td>CARDIO BOOT CAMP — 070</td>
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<td>NAVAL SCIENCE I — 293</td>
<td>CP</td>
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<td>10</td>
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<td>NJROTC/PE 3 quarters and Health 1 quarter</td>
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<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 II — 295</td>
<td>CP</td>
<td>10-12</td>
<td>10</td>
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<td>NJROTC/PE 3 quarters and Driver Education 1 quarter</td>
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<td>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>Credits</td>
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<td>10</td>
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<td>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 IV — 297</td>
<td>Honors</td>
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<td>10</td>
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<td>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>ENVIRONMENTAL SCIENCE — 241</td>
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<td>9</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I (189) for students in grades 10-12</td>
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<td>ACC</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I (189 or 190) for students in grades 10-12</td>
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<td>ENVIRONMENTAL SCIENCE — 243</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra 1A/IB (185/186) for students in grades 10-12</td>
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<tr>
<td>BIOLOGY — 252</td>
<td>Honors</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
<td>Prerequisite: Successful completion of Environmental Science (241 OR 242) Note: Freshmen who fulfill the above requirements during the first semester are eligible to enroll in Biology 252 during the second semester.</td>
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<tr>
<td>BIOLOGY — 251</td>
<td>ACC</td>
<td>10, 11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Environmental Science and teacher recommendation</td>
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<td>BIOLOGY — 253</td>
<td>CP</td>
<td>10, 11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Environmental Science</td>
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<td>CHEMISTRY — 272</td>
<td>Honors</td>
<td>10 - 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I (189 OR 190) AND Biology (251 OR 252) and teacher recommendation</td>
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<td>CHEMISTRY — 271</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I (190 OR 186) AND Biology and teacher recommendation</td>
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<td>CHEMISTRY — 245</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Algebra I (190 OR 186) AND Biology</td>
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<td>PHYSICS — 281</td>
<td>Honors</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Chemistry (271 OR 272)</td>
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<td>Course Title</td>
<td>Level</td>
<td>Grade Level</td>
<td>Credits</td>
<td>Length</td>
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<td>PHYSICS — 247</td>
<td>CP</td>
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<td>18 weeks</td>
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<td>Successful completion of Biology (251 OR 252) and teacher recommendation</td>
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<td>Successful completion of Biology (252 OR 253) and teacher recommendation</td>
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<td>ADVANCED PLACEMENT CHEMISTRY — 276</td>
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<td>7.5</td>
<td>27 weeks</td>
<td>Successful completion of Chemistry (271 OR 272) and teacher recommendation</td>
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<tr>
<td>ADVANCED PLACEMENT PHYSICS C: MECHANICS — 282</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 (223)</td>
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<td>ADVANCED PLACEMENT PHYSICS C: ELECTRICITY &amp; MAGNETISM — 279</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of AP Physics C: Mechanics (282)</td>
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<td>Students must enroll in AP PHYSICS C: MECHANICS (282) and AP PHYSICS C: ELECTRICITY &amp; MAGNETISM (279) to meet the requirements of a full college course curriculum.</td>
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<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Biology (252 OR 253) and teacher recommendation</td>
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<td>FORENSICS — 255</td>
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<td>2.5</td>
<td>9 weeks</td>
<td>Successful completion of Biology</td>
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<td>WEATHER — 291</td>
<td>CP</td>
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<td>Successful completion of Biology OR Environmental Science</td>
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<td>GENETICS: A CONCEPTUAL APPROACH — 288</td>
<td>CP</td>
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<td>2.5</td>
<td>9 weeks</td>
<td>Successful completion of Biology (251 OR 252)</td>
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<td>INTRODUCTION TO MICROBIOLOGY — 283</td>
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<td>2.5</td>
<td>9 weeks</td>
<td>Successful completion of Biology (251 OR 252)</td>
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<td>INTRODUCTION TO GEOGRAPHY INFORMATION SYSTEMS — 289</td>
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<td>2.5</td>
<td>9 weeks</td>
<td>Successful completion of Environmental Science (241 OR 242)</td>
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<td>VIRTUAL ASTRONOMY — 292</td>
<td>CP</td>
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<td>GRAPHIC ARTS I — 680</td>
<td>CP</td>
<td>9-12</td>
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<td>VIRTUAL PHOTOGRAPHY — 690</td>
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<td>AUDIO PRODUCTION — 728</td>
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<td>2.5</td>
<td>9 weeks</td>
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<td>PRODUCTION TECHNOLOGY — 723</td>
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<td>CONSTRUCTION TECHNOLOGIES — 718</td>
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<td>DIGITAL IMAGING — 687</td>
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<td>Successful completion of Graphic Arts II (681) with teacher approval</td>
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<td>CP</td>
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<td>5</td>
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<td>Successful completion of Audio &amp; Video Technology 698 and teacher recommendation</td>
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<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of Audio &amp; Video Technology 698 and teacher recommendation</td>
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<td>5</td>
<td>18 weeks</td>
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<td>Pass/ Fail</td>
<td>10-12</td>
<td>5</td>
<td>Year</td>
<td>Successful completion of Audio &amp; Video Technology with approval of Channel 19 Station Manager</td>
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<td>Grade Level</td>
<td>Credits</td>
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<td>INTRODUCTION TO ENGINEERING DESIGN — 731</td>
<td>Honors</td>
<td>9, 10</td>
<td>5</td>
<td>18 weeks</td>
<td>Grade of “B” or above in Algebra I (189) or equivalent</td>
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<td>COMPUTER INTEGRATED MANUFACTURING — 734</td>
<td>Honors</td>
<td>10, 11</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of IED and “B” or above in Geometry (218)</td>
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<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
<td>Successful completion of IED, CIM and a grade of “B” or above in Algebra II</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of IED, POE, &amp; CIM</td>
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<td>5</td>
<td>18 weeks</td>
<td>Freshmen enrollment in this course is based upon criteria collected during the Honors Readiness Assessment review process.</td>
<td>75</td>
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<td>18 weeks</td>
<td>Freshmen enrollment in this course is based upon criteria collected during the Honors Readiness Assessment review process.</td>
<td>75</td>
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<td>18 weeks</td>
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<td>US HISTORY I — 112</td>
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<td>5</td>
<td>18 weeks</td>
<td>Teacher recommendation</td>
<td>76</td>
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<tr>
<td>US HISTORY II — 111</td>
<td>CP</td>
<td>11, 12</td>
<td>5</td>
<td>18 weeks</td>
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<td>76</td>
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<td>ADVANCED PLACEMENT US HISTORY II — 123</td>
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<td>7.5</td>
<td>27 weeks</td>
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<tr>
<td>US HISTORY II — 122</td>
<td>ACC</td>
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<td>5</td>
<td>18 weeks</td>
<td>Successful completion of US History I and teacher recommendation</td>
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</tr>
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<td>CP</td>
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<td>5</td>
<td>18 weeks</td>
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<td>ADVANCED PLACEMENT PSYCHOLOGY — 150</td>
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<td>12</td>
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</table>
Administration

Dr. Chris Heilig, Superintendent
Ms. Lisa Giovanelli, Business Administrator/Board Secretary
Mr. Joseph R. Martin, Principal
Mr. William Connolly, Director of Curriculum & Instruction
Ms. Kelly Scapellato, Director of Special Services
Mr. William Booth, Assistant Principal
Mr. Anthony Bowker, Assistant Principal
Mr. Ronald Wence, Assistant Principal

Department Supervisors

Mr. George Hatzisandreou, Mathematics
Mr. Stephen Joseph, English & World Language
Dr. Ronald J. Maniglia, Science & Technology and Business, PLTW, & RVT
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.