

RIO RANCHO CYBER ACADEMY

Program of Studies



Rio Rancho Cyber Academy

1330 Jackie Road

Rio Rancho, NM 87124

An Optional Educational Setting

Rio Rancho Public Schools



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Rio Rancho Cyber Academy

1330 Jackie Road, NE

Rio Rancho, NM 87124

(505) 892-7222

<http://cyberacademy.rmps.net/>



Rio Rancho Cyber Academy Vision
Create a model school for distance learning

Rio Rancho Cyber Academy Mission
Enhance learning through effective technology

Student Achievement

Students will attain high levels of performance in academic and life skills.

Effective and Efficient Systems

System performance will be continually improved by using documented approaches/processes that are regularly evaluated.

RRCA at a Glance

RRCA is extremely proud of its accomplishments as a full-time, fully accredited through NCA CASI Hybrid Digital Learning high school and effective middle school environment. RRCA's curriculum is accepted by the NMPED and listed on the NM State Adoption List as Core Basal. We continue to be proactive and collaborative to solve problems and be innovative in our planning and decision making. Our governance structure has provided a clear and thorough implementation of our vision and supports all stakeholders as a learning community. Our accomplishments are directly related to the collaborative process in place which includes a continuous professional development model. We are established as a credible learning environment with a rigorous curriculum that matches or exceeds that of the two comprehensive high schools in the district. Our efforts have not been shallow. We utilize data, organize, plan and research in-depth before taking on new projects. We have held ourselves to high standards and accountability and have been able to showcase our efforts. Because we are so different, there must be no space between our credibility and the questions that we are asked. RRCA has become a model Hybrid Digital Learning School known throughout the country. We have developed best practices for program implementation, teacher and student behaviors in this unique setting. As a common practice, we have freely shared our expertise, established networks of teachers and schools, learned from others and pioneered looking at teaching and learning from a different perspective. One of our most significant accomplishments is the outreach and support we have provided to other district programs and schools. Due to our being part of the Rio Rancho Public School district, we are able to partner with each of the district's high schools offering and receiving blended courses. These opportunities afford students with the most comprehensive and flexible program to complete their high school careers.

History of Rio Rancho Cyber Academy

- 2005 – 2006 Rio Rancho Cyber Academy (7th-12th Grade) opens under the Leadership of Stephanie Belmore, Principal, with Penn Cyber Online Courses
- 2006 – 2007 Second Year of Rio Rancho Cyber Academy, Elaine Manicke, Principal
- 2007 – 2008 Third Year of Rio Rancho Cyber Academy, start of E2020 Online Courses, 6th grade is added
- 2008 – 2009 Fourth Year of Rio Rancho Cyber Academy at new school site on 1330 Jackie Road SE
- 2009 – 2010 Fifth Year of Rio Rancho Cyber Academy
- 2010 – 2011 Sixth Year of Rio Rancho Cyber Academy, RRCA NCAA Approval
- 2011 – 2012 Seventh Year of Rio Rancho Cyber Academy, Start of HAM Radio
- 2012 – 2013 Eighth Year of Rio Rancho Cyber Academy
- 2013 – 2014 Ninth Year of Rio Rancho Cyber Academy
- 2014 – 2015 Tenth Year of Rio Rancho Cyber Academy, Jacquie Monclova, Principal
- 2015 – 2016 Eleventh Year of Rio Rancho Cyber Academy, NCAA approval of _DL courses
- 2016 – 2017 Twelfth Year of Rio Rancho Cyber Academy
- 2017 – 2018 Thirteenth Year of Rio Rancho Cyber Academy
- 2018 – 2019 Fourteenth Year of Rio Rancho Cyber Academy
Julie Arnold, Principal; Heidi Kenworthy, Assistant Principal
- 2019 – 2020 Fifteenth Year of Rio Rancho Cyber Academy

RRCA Goals:

- Maximize continuous improvement for every student
- Maintain a high-quality, interactive online learning platform
- Highly qualified teachers engaging students through a meaningful blended learning environment using 21st Century Skills
- Provide equitable and student-centered learning integrating technology and interactive curriculum
- Deliver an alternative modality of curriculum presentation to accommodate diverse learning styles

Rio Rancho Cyber Academy
Acceptance Guidelines

Rio Rancho Cyber Academy is an alternative school in the Rio Rancho Public School District. Students at our non-traditional school engage in blended learning where virtual learning is combined with structured face-to-face instruction allowing students to optimize their experience supported by highly qualified teachers on campus.

Every interested and prospective new student/parent must complete the following:

1. A pre-enrollment form.
2. Participate in an interview process along with their parent/guardian.
3. During the interview, prospective students must complete an approximately two-hour online skills assessment.

Other important information that applies for new student registration as well as students wanting to continue at RRCA:

1. Previous attendance records, academic records, and behavior records are reviewed and could be a reason not to accept a student at RRCA.
2. If classes are filled, students are put on a waiting list for the following semester or school year.
3. Freshman, sophomore, and junior students are not accepted if they are more than 2.0 core credits behind.
4. We do not take seniors if they are behind 1.0 or more core credits and/or they have not passed all high school examinations required for graduation.
5. We do our best to work with those who are in need of additional support and each request will be considered based on the student's individual need and the ability of RRCA to meet the need.
6. We allow students to use RRPS/RRCA laptops while on the RRCA campus. (RRPS/RRCA laptops are never to leave the campus.) To maintain progress toward course completion, all students are expected to work on their courses even while not at school during designated days.
7. Students are expected to follow their Edgenuity online assignment calendar (or a teacher-provided calendar) in each course and they are expected to stay on target (in the blue or green) in their assignments. This may require a student to work 5-7 hours daily and 25 to 40 hours a week. Students who will not take initiative to stay on target, making adequate progress as noted by remaining in the blue and green with the Edgenuity progress report, may be asked to leave RRCA. Since much of the course work is independent, students must have adequate reading comprehension to complete online coursework at grade level.
8. Edgenuity is a mastery program that prepares students to be more successful in college classes, personal responsibility and scheduling. Students are expected to pass assignments and assessments with 70% mastery.
9. Although students do not physically attend school every weekday, they are expected to work at home. Rio Rancho Cyber Academy welcomes students who are serious in their drive to complete middle school and high school.
10. We offer an accepting, quiet setting with a low pupil to teacher ratio to help students through the rigorous, yet flexible, online courses.
11. Students are required by law to participate in all standards based assessments.

For more information, contact, Rio Rancho Cyber Academy at 505-892-7222.

<http://cyberacademy.rmps.net/>

<http://www.edgenuity.com/the-experience/student-experience/>

RRCA Standard Diploma Graduation Requirements

| Standard Diploma Graduation Requirements * | Number of Credits Required for Graduation |
|--|---|
| English 9, 10, 11, 12 | 4.0 |
| Social Studies (Includes 0.5 NM History, 1.0 World History, 1.0 US History, 0.5 Government, 0.5 Economics, 0.5 World Geography) | 4.0 |
| Math - Algebra II is required to graduate | 4.0 |
| Science - must include 2 of the following: Biology, Chemistry / Chemistry in the Community or Physics | 3.0 |
| Physical Education | 1.0 |
| Health | 0.5 |
| Fine Arts | 1.0 |
| Technology | 1.0 |
| World Languages** / Career Cluster / Workplace Readiness | 1.0 |
| Strategies for Success | 0.5 |
| Personal Finance | 0.5 |
| Electives | 4.5 |
| Total Credits Required to Graduate / Total Possible | 25.0 |

* **Graduation Testing Requirements:** Students must demonstrate proficiency on graduation assessments in Reading, Writing, Math, Science, and Social Studies in order to obtain a diploma. The NM Alternative Assessment, similar to the Partnership for Assessment of Readiness for College and Careers (PARCC), is the primary means of demonstrating competency in Reading, Writing, and Math. Students demonstrate competency in Science through the New Mexico Assessment of Science Readiness. In Social Studies, students demonstrate competency through state approved End of Course Assessments. Alternate methods of demonstrating competency are also available. The requirements and options available vary by cohort year. Comprehensive information regarding the state requirements are located at: <https://webnew.ped.state.nm.us/bureaus/college-careerreadiness/graduation/>

** **Two world language credits** (in the same language) are required for admission to most four-year colleges and universities, including UNM.

*** **Students must earn ONE CREDIT of the following as a graduation requirement:** Advanced Placement (AP) or a dual enrollment or a distance-learning. (Most courses at Rio Rancho Cyber Academy fulfill the distance-learning credit requirement).

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Advanced Placement (AP) The Advanced Placement Program is a national program organized by the College Board that offers college level courses taught by high school teachers. At the end of the course, students are strongly encouraged to take the national exam(s). These scores are used by many colleges and universities to exempt students from introductory coursework and to provide them with college credit for that course. Each test costs approximately \$87 and can be increased yearly by the College Board. Some students may qualify for a reduced fee.

Dual Enrollment Course Credit

1-2 college credits = 0.5 RRPS elective credit. 3-4 college credits = 1.0 RRPS elective credit
RRPS has dual credit agreements with Central New Mexico Community College (CNM), UNM, and Southwest Indian Polytechnic Institute (SIPI) allowing students to enroll in college courses with a tuition waiver. Students earn high school ELECTIVE credit by passing the college course. The student must be enrolled as a student at the post secondary institution and meet the criteria to be enrolled at that institution. Courses must be academic or career technical courses and must be agreed upon by the RRPS and the post secondary institution in order to count toward a graduation requirement. Students pay for course specific fees and for transportation to the site of the dual credit course.

Distance Learning Credit Students must request prior approval and must complete a "Course Agreement" form signed by the student, parent and counselor. On-line courses are available at Secondary Learning Center (SLC), at the Rio Rancho Cyber Academy, and through Central New Mexico Community College (CNM). Distance learning course credits must be earned from schools accredited by the North Central Association. Rio Rancho Cyber Academy must receive an official transcript for the course to meet graduation credit requirements.

Rio Rancho Public Schools Diplomas In an effort to maintain high expectations for all students and to encourage students to take rigorous coursework, two differentiated diplomas are available to RRPS students: a Standard Diploma and a Diploma of Distinction. The Standard Diploma requires that students earn 25 credits. These two options support readiness for post secondary education and career pathways, and exceed the current requirements of the Public Education Department's High School Redesign initiative.

Rio Rancho Cyber Academy's Standard Diploma – requires completion of 25 credits.

- 4.0 *English credits – English 9, 10, 11, 12
- 4.0 *Social Studies credits – NM History/Geography, World History, US History, Economics/Government
- 3.0 *Science credits – Must include: Earth & Space/Conceptual Physics**, two of the following: Chemistry or Chemistry in the Community, Biology, or Physics.
- 4.0 *Math credits - including Algebra I, Geometry and Algebra II (or their equivalent or higher)
- 1.0 World Languages or Career Cluster or Workplace Readiness credit
- 1.0 Physical Education credit
- 0.5 Health credit
- 1.0 Technology credit
- 1.0 Fine Arts credit
- 0.5 Strategies for Success credit
- 0.5 Personal Finance credit
- 4.5 elective credits.

All students must take one high school credit of distance learning (all courses at RRCA are distance learning), Advanced Placement, or dual enrollment college class. *AP courses may be substituted for standard level courses (i.e., AP English 12 Language and Composition may be substituted for English 12).

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The Rio Rancho Public Schools Diploma of Distinction is an initiative that encourages students to take 28 credits of challenging coursework. This rigorous sequence and course of study gives students the solid foundation needed to succeed at a university, technical school, community college, the military, or industry. In order to obtain a **Diploma of Distinction**, a student from Rio Rancho Public Schools must complete the following courses with a C or better, and with a cumulative GPA of 3.0 or higher.

Rio Rancho Public Schools Diploma of Distinction – requires completion of 28 credits with no grade lower than a C. Weighted course letter grades will not be adjusted.

- 4.0 *English credits – English 9, 10, 11, 12
- 4.0 *Social Studies credits – NM History/Geography, World History, US History, Economics/Government 4 *Science credits – Must include: Earth & Space/Conceptual Physics**, two of the following: Chemistry, Biology, or Physics, and one additional science credit.
- 4.0 *Math credits – Must include Algebra I, Geometry, Algebra II, and Trigonometry equivalent or higher.
- 2.0 World Language credits in the same language
- 1.0 Physical Education credit
- 0.5 Health credit
- 1.0 Technology credit
- 1.0 Fine Arts credit
- 5.5 Elective credits

Must include two credits of Advanced Placement courses. Students must have at least a 3.0 GPA at the end of semester 7 (the fall semester of the senior year)

*AP or Pre AP courses may be substituted for standard level courses (i.e., AP English 12 may be substituted for English 12)

Classes for Students Eligible for Special Services: Rio Rancho Cyber Academy provides a continuum of services for students who are eligible as gifted and students who are eligible under the Individuals with Disabilities Education Act (IDEA). Special education services are based on the individual needs of the students as noted in his or her Individual Education Plan (IEP). Services are developed by a team including education professionals, the parent and the student and are delivered in the least restrictive environment. Due to FERPA regulations, we are prohibited from identifying these courses either in this document or on our website.

Core Template: Students attending RRCA must comply with the CORE TEMPLATE which requires English, Math, Science and Social Studies be taken for a full year, each year the student attends school. All RRCA courses are an online format via Edgenuity. (<https://www.edgenuity.com/>)

What does a typical schedule at Rio Rancho Cyber Academy look like?

The courses in parenthesis are suggestions; there are many possible configurations for your schedule. You should take this suggestion and personalize it to meet your needs.

| <i>9th Grade</i> | <i>10th Grade</i> | <i>11th Grade</i> | <i>12th Grade</i> |
|-----------------------------|------------------------------|------------------------------|------------------------------|
| *English 9 | *English 10 | *English 11 | *English 12 |
| *Math (Algebra 1) | *Math (Geometry) | *Math (Algebra 2) | *Math |

Rio Rancho Cyber Academy Program of Studies

| | | | |
|---|---------------------------|-----------------------------|-----------------------------|
| *Science (Earth/ Physics) | *Science (Biology) | *Science (Chemistry) | *Government / Econ |
| *NM History/ Global Issues | *World History | *US History | Personal Finance / Elective |
| Physical Education | Elective (FA) | Elective / Elective | Elective / Elective |
| Spanish 1 World Language | Elective (Tech) | Elective / Elective | Elective / Elective |
| Strategies for Success / Health or Elective | Spanish 2 World Language | Elective / Elective | Elective / Elective |

***Courses in bold represent courses that are a part of the CORE TEMPLATE. Students attending RRCA must comply with the CORE TEMPLATE, which requires English, Math, Science and Social Studies courses, be taken for a full year, each year the student attends school.**

Electives: Electives are offered based on the availability of courses provided by Edgenuity. (<https://www.edgenuity.com/>). RRCA offers elective options that meet graduation requirements.

Credits toward Graduation: In the case of high school students, any credits students have earned will be evaluated and considered for application toward high school graduation requirements using the following guidelines:

1. For students transferring from *accredited schools or programs*, transfer credits will be allowed for courses that are comparable or equal to courses set forth in state statutes and regulations or in the Rio Rancho Cyber Academy Program of Studies. Such determination will be made by the Principal(s) and/or designee in cooperation with the student and his/her parent/guardian.
2. For students transferring from non-accredited schools or programs: Credits cannot be transferred from a non-accredited school or program.

Class Rank

1. Students transferring to a Rio Rancho high school from non-accredited schools or programs will be ranked with the graduating class only if the final four semesters of high school are completed within the RRPS school program.
2. Students transferring to RRPS from accredited schools or programs will be ranked with the graduating class only if the final two semesters of high school are completed within the RRPS program.
3. Class rank will be determined at the beginning of the spring semester.

Grading Policy: Progress reports in student Edgenuity accounts track pace with a color-coded bar. A red bar indicates that the student is not maintaining the minimum pace nor making adequate progress. The Actual Grade is used to report grades in PowerTeacher's Grade Book, which will reflect on report cards and transcripts. Students are required to complete their Edgenuity coursework within the semester time frame. Students should achieve 50% target completion by Q1 or Q3 and 100% course completion by the end of semester (Q2/S1 or Q3/S2). Upon 100% course completion, the Overall Grade equals the Actual Grade. 90% - 100% = A 80% - 89% = B 70% - 79% = C 60% - 69% = D
Weighted Grades are awarded for Advanced Placement (AP) courses. 1.0 point is added to the semester grade value for a non-failing grade. RRCA follows the RRPS grading policy and guidelines.

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Withdraw/Fail: Students requesting to drop a class must request it of their grade level advisor and receive Administrative approval. After the quarter, reporting students who request a class to be dropped will receive a WDF on his/her transcript. This can only be removed after the successful completion of the course. A WDF is calculated into a GPA as an F. Courses are assigned according to the student's Next Step Plan and graduation requirements. Any changes may affect the graduation date and plans. All changes must be considered carefully and reflected on the Next Step Plan. Failed grades are reported on the transcript. The course recovery class must be the exact course and to achieve successful completion a grade of 60% or higher must be earned. Upon completing a recovery course, the student's F grade will be edited to show on the student's transcript as a RPT. This will take place shortly after the end of the semester and after grades have been officially stored. Once a class has been successfully recovered, the failed attempt(s) will not affect a student's overall GPA, class rank, honor roll, and graduation calculation.

Repeated/Duplicate Classes: When a student repeats a course, the highest grade will be recorded on the transcript. Credit can only be awarded one time for a repeated class. It is the student's responsibility to be familiar with all classes they have taken and to alert their counselor or grade level advisor in the event they are mistakenly enrolled in a duplicate course. Credit can only be awarded once, so pay attention to your transcript and courses. Credit recovery is managed by the Secondary Learning Center (SLC) and can be taken throughout the school year as well as Summer School. A fee is normally associated with these credits.

Class Load: All students must be enrolled in a minimum of four classes each semester. Students in extra-curricular activities, including athletics, must be enrolled in four classes to be eligible to participate in sports / activities. Dual credit courses do not count toward the class minimum. Students at Cyber are required to take courses as outlined by their NSP, which may identify by more than the four minimal requirements.

Topic/Unit Exams and Final Exams: Every course has a topic/unit exams and final exam. Final exams are worth 20% of the semester grade for the course. Finals will be scheduled when an entire Edgenuity course is completed. All topic/unit exams and final exams must be performed at school and monitored by a RRCA teacher or staff member. Students are required to take final exams on a RRPS laptop. Students must hand in their phones and smart devices to the teacher or staff proctoring the topic/unit exam(s) and/or final exam.

Student Support Team: The Student Support Team may consist of the academic counselor, the grade adviser, additional teachers as applies, and an RRCA administrator. The Student Support Team will provide a safety net and assistance in scheduling and meeting graduation requirements. They meet with every student on a yearly basis to provide a Next Step Plan, which is a guide to the courses the student should take in subsequent high school years. Our district provides all students with a web-based service called **Naviance**, which augments the Next Step Plan and provides additional resources for students to investigate career and academic interests online. The Student Support Team's primary goal is to graduate the student.


Schedule Changes: Changes are made with the student's advisor and the school counselor with approval from a RRCA Administration and communicated to the registrar. All changes made to the online curriculum program (Edgenuity) must be reflected in the student data base management system (PowerSchool) and updated to the student's NSP.

Interscholastic Athletics at Rio Rancho Cyber Academy: Rio Rancho Cyber Academy does not include sports as part of the RRCA curriculum; however, students may participate in sports programs from their home campus. The students must meet all eligibility requirements of their home campus.

Work with the RRCA counselor and obtain permission from a RRCA Principal if the sports activity requires your attendance during a school day.

Rio Rancho Cyber Academy Course Offerings



Rio Rancho Cyber Academy courses are taken online via  Edgenuity which provides an instructional model grounded in research; Edgenuity courses combine rigorous content with direct-instruction videos from expert, on-screen teachers, multimedia, and interactive learning tools and resources to engage and motivate students. Students are required to attend RRCA during the week for actual face-to-face classes with our highly qualified teachers.

English Core Course Descriptions *(listed in order of standard grade level plan for completion, 9th - 12th)*

English 9 A/B

1.0 credit: yearlong course

Students will be exposed to a wide range of fiction and nonfiction is intended to increase comprehension and analytical skills. Expository writing assignments based on the literature will stress focus, support, and specific detail; creative writing will include short fiction and poetry. Students will also receive hands-on training in applying the writing process, evaluating essays using the Six Traits of Effective Writing, and using MLA style and documentation. By the end of the course, students will have composed and evaluated literary, persuasive, narrative, and informative essays. Paramount to their writing skills are the grammar lessons and practice provided in every unit throughout the year.

English 10 A/B

1.0 credit: yearlong course

Students will learn about the alternate aims and audiences of written compositions through the writing of multi-paragraph thematic process to produce persuasive, descriptive, and expository essays. They will study various genres of world literature to improve their reading rate and comprehension, and to develop the skills to determine the author's intent and theme, and to recognize the techniques employed by the author to achieve the goal. The skills lessons equip students with the literary devices and terminology they will need to excel on high-stakes tests. Informational lessons connect literary text to other content areas or real-life fields. In the communication lessons, students practice debate, analysis of formal speech, visual media analysis, and mass media analysis. Grammar lessons reinforce and expand on the foundations of the English language.

English 11 A/B

1.0 credit: yearlong course

Students will learn about the alternate aims and audiences of written compositions through the writing of multi-paragraph thematic essays. The course is structured chronologically by time period and literary era. Each unit contains introductory lessons that set the state for the student to understand the background and historical events that have affected American literary and expository texts. They will study various genres of American literature to improve their reading rate and comprehension, to develop the skills to determine the author's intent and theme, and to recognize the techniques employed by the author to achieve the goal.

AP English 11 Literature and Composition A/B

1.0 credit: yearlong course

Students will learn to write analytical essays on poetry, prose and the novel. Classroom discussions, timed writings and practice analysis are curriculum requirements. Students are expected to take the AP national exam, which may lead to college credit. Students may be required to purchase supplementary novels. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for

financial assistance.)

English 12 A/B

1.0 credit: yearlong course

Students will study various genres of literature concentrating on non-fiction involving government, economics and modern social issues. They will develop skills to write persuasive, critical and creative multi-paragraph thematic essays and compositions. To add dimension to the British literary experience, students will be exposed to world literature with stories across the globe.

AP English 12 Language and Composition A/B

1.0 credit: yearlong course

Students will write analytical essays on readings organized thematically around a group of ideas or issues, using a variety of nonfiction works and examining rhetorical strategies and stylistic choices. Classroom discussion, timed writings and practice analysis are curriculum requirements. Students are expected to take the AP national exam, which may lead to college credit. Students may be required to purchase supplementary novels. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Social Studies Core Course Descriptions (listed in order of standard grade level plan for completion, 9th - 12th)

New Mexico History / Global Issues in Geography (9th grade)

0.5/ semester/yearlong course

Students will gain an understanding of the issues and events that have shaped the state of New Mexico, and improve their geographic skills, as well as their reading and writing skills, through critical thinking activities.

AP Human Geography A/B (9th grade)

1.0 credit: yearlong course

This course introduces students to the systematic study of patterns and process that have shaped human understanding, use, and alteration of the Earth's surface. STUDENTS WILL employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. Methods and tools geographers' use in their science and practice will also be taught. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. New Mexico History from statehood to present with special emphasis on the historical, political, economic, social, cultural, and geographical features of New Mexico will be spiraled throughout the curriculum. Students may be required to purchase supplementary textbooks. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

World History A/B (10th grade)

1.0 credit: yearlong course

Students will examine the major revolutions and conflicts as well as the major themes and trends that prevail in world history. Among the topics examined are colonialism, imperialism, world wars, and global issues and concerns. Students will develop their writing skills by completing many essays and papers on topics from world history. Primary sources will be analyzed and students will complete document-based essays.

AP World History A/B (10th grade)

1.0 credit: yearlong course

Students will develop a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. Students will write extensively and learn to analyze historical documents. Students may be required to purchase supplementary novels. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

U.S. History A/B (11th grade)

1.0 credit: yearlong course

Students will read, study and research the Civil War to the present period – exploring political, economic, social, religious, military, scientific and cultural developments. Upon completion, students will be able to summarize important historical events such as the Civil War, America's westward expansion, the Great Depression, WW1, WW2, and the Cold War, as well as have the ability to analyze issues that are affecting the country today. They will investigate the evolution of technology, political thought, changing opinions, and life changing movements that have played a role in shaping this nation.

AP U.S. History A/B (11th grade)

1.0 credit: yearlong course

This course meets the New Mexico Public Education Department graduation requirements for U.S. history and geography. It is designed for students planning to take the AP U.S. History test for college credit. AP US History accents in narrative form the events and people, which shaped the United States from 1607 to the present.

STUDENTS WILL learn to assess historical materials, and to weigh the evidence and interpretations presented in historical scholarship. Students may be required to purchase supplementary textbooks. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Economics / Government (12th grade)

0.5/1.0 credit: semester/yearlong course

Students will study contemporary global issues with an emphasis in economics and US Government from a “We the People” perspective. Students are expected to apply what they have learned in previous courses to the problems they are studying. Students will also demonstrate analytical and creative thinking skills. In addition, the student will examine their rights and responsibilities as a citizen and how to exercise them as well as experience the political process at local, state and national levels of governments.

AP Government and Politics:

0.5/1.0 credit: semester long course

This course meets the New Mexico Public Education Department graduation requirements for government. This class will analyze the origins, progress, trends, and projections of government and politics in the United States and will include both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. STUDENTS WILL make an in- depth study of the formation and goals of various political parties, the leaders of those parties, and the effects they have had on American history. This class uses current issues to further understanding. Students are expected to take the AP national exam, which may lead to college credit. Students may be required to purchase supplementary textbooks. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Math Course Descriptions (listed in order of standard grade level plan for completion, 9th - 12th)

Algebra I A/B

1.0 credit: yearlong course

Students will learn the basic structure of the real number system and recognize techniques for solving equations and inequalities, graphing, operations with polynomial expressions and equations, techniques of factoring, systems of equations, quadratic equations, and applying problem-solving strategies to real world situations. Students will be able to write, solve, and graph a variety of equations and inequalities, as well as linear systems. Functions are a central theme of the course, which includes function notation, domain and range, rate of change, and transformations. Students use the properties of real numbers to explore, justify and simplify numeric and algebraic expressions, including laws of exponents, radicals and rational expressions. TI-83/83 Plus or TI-84 graphing calculators will be used.

Geometry A/B

1.0 credit: yearlong course

Students will develop geometric vocabulary, definitions, and theorems in proofs as applied to inter-relationships between lines, planes, polygons, circles, and polyhedrons. They will learn the basic concepts involving congruence and similarities between shapes, primarily triangles, quadrilaterals and circles. Students will learn geometric formulas and how to use and/or apply them in real world situations. They will be introduced to trigonometric identities and basic right triangle relationships of sine, cosine and tangent functions.

Algebra II A/B

1.0 credit: yearlong course

Students will continue to explore and develop their algebra skills in the areas of real numbers, imaginary numbers, equations and inequalities, linear, quadratic, exponential and logarithmic functions, advanced algebraic concepts, trigonometry, statistical analysis, permutations, sequences and series, and some conics as well as graphing analysis. Students learn to manipulate and use matrices in various formats to determine data relationships and delve into function types such as polynomial, logarithmic, quadratic, exponential, and rational and periodic. TI-83/83 Plus or TI-84 graphing calculators will be used.

Transition to College Math A/B

0.5/1.0 credit: semester/yearlong elective course

This course will assist the student who needs more time to develop algebraic concepts while building on entry-level college algebra topics such as complex fractions, binomial expansions, graphing of polynomial relations, exponential and logarithmic functions. Furthermore, the course will meet the distance learning graduation credit requirement. Students will their math skills so that they can be more successful with their first math class in college. TI-83/83 Plus or TI-84 graphing calculators will be used. Students normal do not take this class unless they have successfully completed Algebra 2 with a C or better.

Everyday Statistics A/B

0.5/1.0 credit: semester/yearlong elective course

Normally only taken by 12th grade students, unless the class is doubled up with another math course, OR the student has completed through Algebra 2, OR the student has an Algebra 2 waiver and has completed Algebra 1 and Geometry. Under typical circumstances, this course is intended for students looking for a relevant math course to finish out their senior year. The course is not overly ambitious, but it does teach a great deal about the application and interpretation of both descriptive and inferential statistics. It deemphasizes the advanced mathematical theories behind the computations, but instead focuses on the appropriate application, techniques, and understanding of the concepts, with the use of technology. Students finishing this course will be better prepared to understand the presentation of data they encounter in their daily lives. There is no prerequisite; however, students should not be taking this course if they have not completed their trio of Algebra I, Geometry, and Algebra 2 (if not on an Algebra 2 waiver). Everyday Statistics is NOT a prerequisite class for AP Statistics; however, a student may receive credit for both Everyday Statistics and AP Statistics. It is important to understand that statistics should NOT be used as a substitute in the sequence of the core mathematics subjects. In other words, a student should not take statistics in lieu of Algebra I, Geometry, or Algebra II (unless on an Algebra 2 waiver), but rather as a supplement after having completed those courses.

Math Analysis A/B

0.5/1.0 credit: semester/yearlong course

Students will focus on the connections of algebra, geometry, trigonometry and transcendental functions. They will develop deeper comprehension of the interrelationships and application of their previous math courses. Strategies for problem solving will be stressed throughout the course. TI-83/83 Plus or TI-84 graphing calculators are required. *(Option for 4th year Math)* Prerequisites for this class is Algebra 2 A/B.

Financial Algebra A/B

0.5/1.0 credit: semester/yearlong course

A two-semester course designed for high school students, this course focuses on the applications of mathematics in both personal and business settings. This course contains 15 major topics encompassing many aspects of financial math: personal financial planning, income, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, consumer credit, consumer debt, economic principles, traveling abroad, starting a business, and analyzing business data. Students apply various math skills such as percent's, proportions, probability, data analysis, linear systems, exponential functions and formulas to real life situations. A unique feature of this course is that each lesson is centered on the mathematical skills used in the world of personal finance. In the Making Connections sections, engaging project based learning activities provides students with a deeper understanding of the subject matter. Students participate in interactive activities and use inquiry to explore scenarios that are relevant to their lives. *(Option for 4th year Math)*

Trigonometry A/B

0.5/1.0 credit: semester/yearlong course

Students will investigate the applications of trigonometry in such fields as physics, engineering, electronics and mechanics. Students will be more prepared for work in calculus as they grasp and work with trigonometric and circular functions, identities and equations, relations among the parts of a triangle, solutions of right and oblique triangles, and complex numbers. TI-83/83 Plus or TI-84 graphing calculators will be used. Prerequisites for this class is Algebra 2 A/B.

Pre-AP Pre-Calculus A/B

0.5/1.0 credit: semester/yearlong course

Students will employ graphical, numerical, and analytical techniques to analyze the derivative. Focus will be on application to interpret and understand the derivative as a rate of change. Students are expected to have a strong foundation in algebra and geometry. Students are introduced to calculus by exploring topics of limits, continuity, derivatives, and the Fundamental Theorem of Calculus. TI-83/83 Plus or TI-84 graphing calculators will be used. Prerequisites for this class is Algebra 2 A/B.

AP Calculus AB

0.5/1.0 credit: semester/yearlong course

Prerequisite: "C" or higher in Pre AP Pre-Calculus or permission of instructor. This course will expose the student to foundational concepts of calculus and provide experience with its methods and applications. AP Calculus AB is a college level calculus course (equivalent to most colleges' first semester and a half of calculus) designed to prepare students for success on the College Board's Advanced Placement Exam. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Broad concepts and widely applicable methods are the focus, and include the topics of derivatives, integrals, limits, exponential functions, approximations, applications, and modeling. In AP Calculus AB, the student studies limits, differentiation, and definite and indefinite integration of functions and

relations. Graphing calculators will be used. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

AP Calculus BC

0.5/1.0 credit: semester/yearlong course

Prerequisite: AP Calculus AB. This course will further develop the student's understanding of the concepts of calculus and provide additional developmental experience with its methods and applications. AP Calculus *BC* is a college level calculus course (equivalent to most colleges' second semester of calculus) designed to prepare students for success on the College Board's Advanced Placement Calculus *BC* Exam. It emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Broad concepts, widely applicable methods, and specific applications are the focus, and include the topics of derivatives, integrals, limits, approximations, applications, modeling, Taylor and Maclaurin series, polar coordinate systems, and parametric equations. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Science Course Descriptions *(listed in order of standard grade level plan for completion, 9th - 12th)*

9th Grade Conceptual Physics / Earth Space Science

0.5/1.0 credit: semester/yearlong course

Conceptual Physics - THIS COURSE investigates topics of physics. Through classroom and project-based learning experiences, students will begin to build the necessary skills for scientific investigation to become scientifically literate citizens and informed decision-makers. Taught in the ninth grade with Earth & Space Science. STUDENTS WILL understand the structure of Earth, the solar system, and the universe, the interconnections among them, and the processes and interactions of Earth's systems. Students will also learn about the transformation and transmission of energy, how energy and matter interact, the motion of objects and waves, and the forces that cause them. Experimental design, lab techniques, team building, report writing and safety are key issues that are stressed throughout the course.

Earth and Space Science - THIS COURSE investigates topics in earth and space science. Through classroom and project-based learning experiences, students will begin to build the necessary skills for scientific investigation to become scientifically literate citizens and informed decision-makers. Taught in the ninth grade with Conceptual Physics. STUDENTS WILL understand the structure of Earth, the solar system, and the universe, the interconnections among them, and the processes and interactions of Earth's systems. Students will also learn about the transformation and transmission of energy, how energy and matter interact, the motion of objects and waves, and the forces that cause them. Experimental design, lab techniques, team building, report writing and safety are key issues that are stressed throughout the course.

Biology A/B (Lab science)

0.5/1.0 credit: semester/yearlong course

Students will be introduced to the study of living organisms and how they are interrelated. The topics of cell structure and function, organism classification, theory of evolution, genetics and comparative anatomy and physiology will be studied. Students will be encouraged to explore and apply critical analysis to the complexity and variety of life on Earth with awareness of simple organisms, plants, invertebrates, and vertebrates, as well as human biology.

Chemistry A/B (Lab science)

0.5/1.0 credit: semester/yearlong course

Students will apply scientific measurements, learn general properties of matter, and the structure of the atoms while diving into depth with the period tables, types of bonds, and working with chemical equations. Students will also explore states of matter, chemical reactions, and the energy involved in chemical changes. A scientific calculator is required for this course. TI-83/83 Plus graphing calculator is preferred.

Conceptual Chemistry A/B (Lab science)

0.5/1.0 credit: semester/yearlong course

Through this course, students will investigate how the structures of atoms: 1) determine the physical and chemical properties of the elements, 2) determine the molecular forces that bond atoms and molecules together, and 3) can be used to explain and predict chemical and nuclear reactions. Additionally, students will investigate and model how other factors (e.g. concentrations, pH, temperature, and pressure) affect chemical reactions. Students will draw on their understanding of chemistry to analyze, model, and explain the effects of extracting energy-rich molecules from within the Earth and transferring that energy into the atmosphere is affecting our climate.

Environment Science A/B

0.5/1.0credit: semester/yearlong course

Students will study environmental science that will cover major aspects of ecology, biosphere, land, forests, soil, water, energy and resources, and societies and policy. Upon completion of the course students will be able to discuss global connections and real world issues pertaining to the environment.

AP Environmental Science A/B (Lab science)

0.5/1.0credit: semester/yearlong course

Students will be introduced to the natural sciences in an interdisciplinary context that includes consideration of people and how they have influenced natural systems. As such, environmental science encompasses a broad spectrum of topics from different branches of scientific study including geology, biology, chemistry, physics and geography. Advanced Placement Environmental Science (APES) is intended to be the equivalent of a one-semester, introductory college course in environmental science. The goal of APES is 1) to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; 2) to identify and analyze environmental problems both natural and human-made; 3) to evaluate the relative risks associated with these problems; and, 4) to examine alternative solutions for resolving and for preventing them. Strongly based in science, the course is designed to fulfill a basic lab science requirement at the college level. Data analysis, measurement, statistics, dimensional analysis and other operations that require mathematical skills are emphasized.

Physics A/B (Lab science) credit

0.5/1.0credit: semester/yearlong course

Students will study, explore, and manipulate the foundation for the laws that govern the concepts of motion and energy. Students will utilize mathematics to represent and illustrate different phenomena. Upon completion of the course, students will be able to reflect upon the major themes of mechanics, states of matter, waves and light, energy and magnetism, and modern physics. TI-83/83 Plus graphing calculators will be used.

Astronomy (s)

0.5 credit: semester long course

Students will study the atmosphere to include the weather and climate, Earth, Sun, Moon, Inner and Outer Planets, Stars, and Galaxies, and other objects in Space, along with theories regarding the origin and evolution of the universe, space, and time. (*Option for 4th year Science*)

Geology (s)

0.5 credit: semester long course

Students will be exposed to an introduction to Earth Science and study mapping the Earth, minerals, rocks, Earth's energy resources, plate tectonics, earthquakes, volcanoes, weathering and soil formation, erosion and deposition, Geologic Time, Earth's waters, and ocean zones. (*Option for 4th year Science*)

Zoology A/B (s)

0.5/1.0credit:semester/yearlong course

This course will survey the biology and classification of invertebrate and vertebrate animals. Life systems and support systems will be covered. Comparative physiology, development, behavioral and anatomical studies will be stressed. (*Option for 4th year Science*)

Elective Course Descriptions

Credit Codes: (t) = Technology Credit
(f) = Fine Arts Credit
(lcw) = Language/Career/Workplace Credit
(r) = Personal Finance (RRCA Requirement)

AP Computer Science Principles A/B (t) (lcw)

1.0 credit: yearlong course

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Art History (same as Fine Arts B) (f)

0.5 credit: semester long course

This course will introduce significant works of art, artists, and artistic movements that have shaped the art world and have influenced or reflected periods of history. The evolution of art forms, techniques, symbols, and themes will also be addressed. Students will explore the historical, social, geographical, political, and religious context for understanding of art and architecture through the ages. The course is organized by chronological and historical order, and world regions.

Associated Students (9A/B, 10A/B, 11A/B, 12A/B)

0.5/1.0credit:semester/yearlong course

This course is a project-based class in which students learn to plan, prepare, implement and evaluate a wide variety of projects designed to serve the students, staff and community. Students also learn: various leadership techniques and skills, personal and organizational management, teambuilding, public relations, public speaking. Students serve as members of the RIO RANCHO CYBER ACADEMY STUDENT COUNCIL, and are required to spend time outside of class at various school-sponsored activities. Students may also be asked to complete lessons within the online learning platform relevant to leadership, organizations, society, team relationships and skill building. Enrollment is limited and based on an application process. Students are also REQUIRED to maintain certain academic and behavioral standards to enroll or remain enrolled in the class.

Business Computer Applications A/B (t) (lcw)

0.5/1.0credit:semester/yearlong course

Students will gain an understanding of the software most commonly used in today's businesses and produce final documents throughout the course to demonstrate knowledge, and skills.

Business Ownership and Management A/B (t) (lcw)

0.5/1.0credit:semester/yearlong course

In this two-semester introductory course, students will learn the principles of business using real- world examples by learning what it takes to plan and launch a product or service in today's fast-paced business environment. This course covers an introduction to economic basics, costs and profit, and different business types; techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society, locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Careers A/B (lcw)

0.5/1.0credit:semester/yearlong course

Students will investigate careers as they apply to personal interests and abilities, develop skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. Students will learn to utilize sources of employment information, job seeking and interview techniques, applications and resumes, and the skills needed to remain and advance within the workplace. Students will also explore consumer education and personal money management topics.

Computer Applications A (t) (lcw)

0.5 credit: semester course

This course will focus on a broad introduction to keyboarding, identification of the basic computer and parts of the personal computer, usage of the internet and Microsoft Office applications (Word, PowerPoint, Excel, Access). Students will gain an understanding of the how to utilize a computer, gain greater computer literacy, and grasp the basic and complex concepts of the software most commonly used in today's businesses.

Engineering Design A/B (t) (lcw)

0.5/1.0credit:semester/yearlong course

In Part 1 of this one-semester course, students will master the basics of CAD software: creating points, lines, geometric forms, isometric drawings, and 3D models. Students will learn how to translate initial concepts into functional designs and 3D walkthroughs. Students will explore career options for engineers and CAD designers. In Part 2 of this course, students will continue to develop the engineering and computer-aided design skills gained in Part 1. Students will continue to explore the principles of 2D and 3D modeling and design using Creo™ Elements/Direct™ Modeling Personal Edition, and build on the math and reasoning skills essential to engineering. The hands-on experience students will gain through completing design challenges, product analyses, and more will equip them with the tools engineers need to succeed.

Fine Arts A (Introduction to Art) (f)

0.5 credit: semester long course

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual

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elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

Newspaper 1, 2, 3, 4 (f) (t)

0.5/2.0 credit: semester long course

Students will apply the writing process and the Six Traits of effective writing as an overarching framework that encompasses targeted lessons on reputable research, effective communication, solid grammar, and compelling style. By the end of the course, students will have had hands-on experience writing personal reflections, definition essays, research essays, persuasive and informative pieces, and literary analyses. They will also be able to use and interpret Six Traits rubrics to evaluate writing, articulate and apply strategies for research and writing, and summarize a variety of grammar and usage points.

Graphic Arts 1 and 2 (f) (t)

0.5/1.0credit: semester/yearlong course

Students will work to complete project based assignments, major project may include the preparation, publication and distribution of the school yearbook (web based version and possibly printed version); another project will include a CD publication specific for graduation highlighting seniors. Students will learn photography, lighting, layout and format for publication, to include audio and video. Computer programs that are included in the course include desktop publishing and a variety of publishing formats, using programs such as (but not limited to) PageMaker, Adobe Photoshop, Microsoft Office Word, Microsoft Office Publisher, Microsoft Office PowerPoint, ImageBlender, Corel Paint and Draw, Windows Media Player, Windows MovieMaker, and the Internet. See advisor/Program Manager for approval.

Health

0.5 credit: semester long course

THIS COURSE WILL explore the dimensions of wellness by examining topics including nutrition, consequences of substance use and disease prevention. This information will help students become more knowledgeable about their own social, emotional, mental, and physical health. STUDENTS WILL develop skills needed in confronting difficult situations; understand health prevention and promotion techniques that will establish a solid personal health education; and become health literate in making positive and healthy decisions. **(REQUIRED FOR GRADUATION)**

Lifelong Fitness

5/1.0credit: semester/yearlong course

Students will learn goal-setting strategies, interpersonal communication skills, and health-enhancing behaviors to demonstrate a healthy lifestyle. A one-semester course that combines comprehensive online instruction with student participation in fitness activities. Students must complete a fitness log of 40 plus hours to fulfill each semester course in addition to successfully completing the curriculum portion of the class. Throughout the course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Through the application of personal fitness assessments, students will design a fitness program to meet their individual fitness goals. Upon completion of the course, students will have the knowledge to stay fit and active throughout their lifetime. Areas to be explored include safe exercising and injury prevention; cardiovascular health; muscular strength and endurance; flexibility; nutrition and weight management; lifetime fitness; consumer product evaluation; biomechanical principles; team and individual sports; and stress management.

High School Reading 1 & 2 A/B

.5/1.0credit: semester/yearlong course

Students will improve vocabulary, word attack skills, reading comprehension, and reading analysis in this course.

Introduction to Entrepreneurship 1 & 2 (t) (lcw)

0.5/1.0credit: semester/yearlong course

Students will learn what it takes to be an entrepreneur while mastering the basics of planning and launching a successful business. Part 1 of this course covers the role of entrepreneurship in society and how to pursue entrepreneurship as a career; an introduction to economic principles related to business and industry; and an exploration of the process of starting, organizing, and promoting a new business. Part 2 of this course covers microeconomic concepts on how businesses strategize on sales and pricing; topics in personal finance, including how to manage personal credit; accounting, taxes, and laws that affect small businesses; the ways in which culture, globalization, and technology affect the success of an entrepreneurial venture; and positive workplace skills that students can apply on the job.

Introduction to Information Technology A/B (t) (lcw)

0.5/1.0credit: semester/yearlong course

Introduction to Information Technology is a yearlong course that introduces students to the field of Information Technology (IT), including career options and job-specific skills for various IT positions. As they progress through each unit, students learn about networks, software, operating systems, HTML and computer programming. Throughout this course, students engage in variety of hands-on assignments, such as creating Web pages with HTML and CSS; creating and formatting spreadsheets; drawing and editing digital images; and using multiple search parameters to locate, sort, search, and filter data in a spreadsheet. Students learn through direct instruction, interactive tasks, and a variety of project-based assignments. This course provides students with a basic introduction to IT careers.

Literary Novels 1 and 2

0.5/1.0credit: semester/yearlong course

Students will study Jorge Luis Borges and Flannery O'Connor along with students can select from a list of novels to read in an online format: 1984, A midsummer Night's Dream, Borges Author Study, Call of the Wild, Dr. Jekyll and Mr. Hyde, Gulliver's Travels, Heart of Darkness, Jane Eyre, Mrs. Dalloway, O'Connor Author Study, Portrait of the Artist, Robinson Crusoe, The House of Seven Gables, The Red Badge of Courage, and The Three Musketeers.

Marketing Lab 1 & 2 (lcw)

0.5/1.0credit: semester/yearlong course

Students will learn the fundamentals of marketing using real-world business examples to illustrate what it takes to market a product or service in today's fast-paced business environment. Students will learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management. In this course, students will begin developing a comprehensive marketing plan for a new business that will be completed in the second semester of the course. This course covers an introduction to economic basics, costs and profit, and different business types; techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society, locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Math Modeling Algebra 1 A/B

0.5/1.0credit: semester/yearlong elective course

Students will be introduced to real and complex numbers so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles are included with their quadratic algebraic representations. The six critical areas include: (1) extending the number system; (2) quadratic functions and modeling; (3) expressions and equations; (4) applications of probability; (5) similarity, right triangle trigonometry, and proof; and (6) circles with and without coordinates. The Standards for Mathematical Practice apply throughout this course and, together with the content standards, prescribe mathematics as a coherent, useful, and logical subject that makes sense of problem situations.

Math Modeling Algebra 2 A/B

0.5/1.0credit: semester/yearlong elective course

Students will be introduced to real and complex numbers so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles are included with their quadratic algebraic representations. The six critical areas include: (1) extending the number system; (2) quadratic functions and modeling; (3) expressions and equations; (4) applications of probability; (5) similarity, right triangle trigonometry, and proof; and (6) circles with and without coordinates. The Standards for Mathematical Practice apply throughout this course and, together with the content standards, prescribe mathematics as a coherent, useful, and logical subject that makes sense of problem situations.

Math Modeling Geometry A/B course

0.5/1.0credit: semester/yearlong elective

Students will apply the concepts learned in Algebra 1 and Geometry and this should not be the first time students learn these concepts. The critical areas deepen and extend understanding of linear and exponential relationships through analyzing, solving, and using quadratic functions and expand and explore more complex geometric situations and deepen their explanations of geometric relationships. The Standards for Mathematical Practice 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. TI-83/83 Plus or TI-84 graphing calculators will be used.

Math Lab A/B

0.5/1.0 credit: semester/yearlong elective course

Designed for a supplemental course to be given alongside Algebra 1 to offer additional support to students who lack the skills and concepts necessary to be successful in a yearlong Algebra I course. This course targets conceptual understanding, associated skills, and related problem-solving and reasoning capabilities. It provides integrated, effective review/repair strategies, supports ongoing, distributed practice and re-engages learners through multiple representations of mathematical ideas.

Math Skills A/B

0.5/1.0 credit: semester/yearlong elective course

Designed for students who lack the pre-algebra skills and concepts necessary to be successful in a yearlong Algebra I and/or Geometry course. This course targets conceptual understanding, associated skills, and related problem-solving and reasoning capabilities. It provides integrated, effective review/repair strategies, supports ongoing, distributed practice and re-engages learners through multiple representations of mathematical ideas. The course is designed to give students additional content to build skills necessary to pass Algebra 1 or Geometry. This course is designed as an intervention class.

Personal Finance

0.5 credit: semester long course

Students will be introduced to savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. Upon completion, students will have a better understanding of consumer skills to apply to their everyday lives in the real world. **(REQUIRED BY RRCA)**

Physical Education A/B

0.5 credit: yearlong course

This course will meet New Mexico PED graduation requirements for Physical Education and Health Education. Activities and lessons within this course develop personal practices that promote lifelong wellness. Classroom activities focus on specific issues affecting teens that encourage a healthy lifestyle. The focus for physical activity will be on team sports such as basketball, flag football, soccer, and softball along with social/mental/emotional health, first aid, nutrition, and stress management. **STUDENTS WILL** gain insight into the importance of teamwork and sportsmanship. Students will also be encouraged to develop habits that promote overall good health. Students are required to maintain a "Fitness log" of 60 or more hours per semester in addition to the curriculum portion of this course. **NOTE: The New Mexico Public Education Department requires one full credit in physical education and health education to satisfy the graduation requirement.**

Psychology A/B

0.5/1.0 credit: semester long course

Students will study the introduction of the history and research of psychology, an understanding of the biological aspects of psychology, learning and cognitive development, the stages of human development, aspects of personality and individuality, the development and management of psychological disorders, and the interactions of society as it relates to psychology.

AP Psychology

1.0 credit: yearlong course

This course introduces students to the study of individual human behavior, human growth and development, personality and behavior, an overview of the field of psychology, and abnormal psychology at a college level. Students will study behavior & mental processes of human beings & other animals. The student is exposed to the psychological facts, principles, & phenomena associated with the major fields w/in the discipline. Those who elect to take the Advanced Placement exam will be required to pay the test fee. (Qualified students may apply for financial assistance.)

Sociology

0.5 credit: semester long course

Students will examine cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior both historically and in modern time.

Speech

0.5 credit: semester long course

Students will be introduced to the elements, principles, and characteristics of human communication and then progresses into an exploration of self-awareness and perception in communication. Students will prepare to be effective communicators in a global society by gaining confidence in speaking before a group; organize information from a variety of sources to give well-constructed presentations; develop leadership skills in small

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and large group verbal situations; and study how communication takes place through voices as well as nonverbal areas (body language).

Strategies for Success

0.5 credit: semester long REQUIRED BY RRCA course

Students will comprehend study skills and strategies for high school students to include time management, note taking, online learning environment skills, and strategies for remembering key information, are taught using real-world activities.

Tech to Robotics 1 and 2

0.5/1.0 credit: semester/yearlong course

This course will present progressively more complex aspects of algebraic applications, computer programming, delivery systems, and teamwork as students prepare for the RoboRAVE competition. R.A.V.E. stands for Robots Are Very Educational. You may visit <http://roboquerque.org/> for more information. STUDENTS WILL work in teams to learn multiple aspects of engineering as it applies to robotics. Each team will learn how to build and program Lego NXT Robots to accomplish specific engineering tasks like traveling exact distances and using sensors to navigate around its environment and gears to modify its speed.

Work Study 1, 2, 3, 4

0.5/each 2.0 max credit allowed

NOTE: Students may earn a maximum of two elective credits toward graduation requirements for Work Study, except that they may earn a maximum of two credits for any combination of Work Study and Career Internship. It is the responsibility of the student to submit logs from employer documenting the total number of hours. 90 hours = .5 credit

Yearbook 1, 2, 3, 4 A/B (t) (lcw)

0.5/1.0 credit: semester/yearlong course

This course offers the student limited involvement in the production of the school yearbook. Students will learn the basics of yearbook layout and design, photography, copy writing, and copy editing.

World Languages

Fluency in more than one language enhances any career with an international component and enriches travel and life experiences. Colleges and universities typically require completion of world language courses through Level 2 of the same language. Universities that are more selective require completion of a minimum of two levels of the same language.

Spanish Level I, 2, 3 A/B (lcw)

1.0 credit: semester yearlong course

French Level I, 2, 3 A/B (lcw)

1.0 credit: semester yearlong course

German Level I, 2, 3 A/B (lcw)

1.0 credit: semester yearlong course

Chinese Level I, 2 A/B (lcw)

1.0 credit: semester yearlong course

Latin Level I, 2 A/B (lcw)

1.0 credit: semester yearlong course

This course meets state and national standards for modern and classical languages. Students are introduced to the language with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major speaking areas in the world. It includes basic communication skills in the chosen language, and introduces geography and culture (music, film, food) of the countries where the language is spoken. Personalized oral and written projects enrich the course. Students have opportunities to understand how language works and the relationship between language and culture. Students will develop communication skills (listening, speaking, reading, and writing) for basic situations: language basics, greetings and introductions, work and school, shopping, descriptions of families and friends, and daily conversation.

Additions and edits to the yearly course offerings may take place based on availability and program requirements of courses within the online platform. Questions or concerns need to be addressed to the school and the Administrative staff to provide clarification as needed. Students are responsible for selecting proper courses to achieve graduating every year as outlined by their Next Step Plan (NSP). RRCA provides a grade level advisory, which can provide support and is the main point of contact for the student to address credit selection to fulfill the requirements of graduation.