

July 1 deadline!

CRMS JUNIOR REGISTRATION 2011-2012

NAME _____ DATE _____

The required courses for juniors include English 11: American Literature (or AP English Literature), History 11: American History (or AP US History), and three courses in the departments of Mathematics, Science, Spanish Language, and Art. Juniors may take six classes. Students who have not excelled in previous courses may not be accepted into AP-level classes, which demand a high level of dedication and require students to meet college-level standards.

ENGLISH

English 11 is required for all juniors, unless they take AP English Literature.

**AP English Literature is open only to juniors. Students enrolled in AP English Literature are required to take the AP exam in May.*

ENGLISH 11: AMERICAN LITERATURE

This course explores the rich variety and complexity that is the literary tradition in America. The course, aligned with the US History curriculum, focuses on 4 major themes: The American Native (native myths through contemporary Native writers), the American Other (Emerson and Thoreau, slave narratives through contemporary African American writers), The American Dream (Depression-Era writers through Modernism), and The American World (Post-Modern writers). Students explore the literature in the context of the history and explore the skills and techniques that constitute close reading and literary analysis. Each student is expected to produce a substantial critical essay each quarter as well as smaller less formal writing assignments more frequently.

ADVANCED PLACEMENT ENGLISH LITERATURE*

AP English Literature engages students in careful reading and critical analysis of literature from a wide array of literary genres. The course sets and maintains a challenging pace that mirrors a college-level syllabus and is geared for both enrichment and preparation for the AP exam. The approach to reading at the AP level includes the experience, interpretation, and evaluation of literature. The readings are selected from the 16th through 20th centuries, and students read a variety of criticism and compose timed AP writing samples graded on the AP scale. Additional evaluations include periodic AP multiple-choice tests, reading quizzes, objective tests, and term papers.

July 1 deadline!

CRMS

HISTORY

All juniors are expected to take History 11 unless given a waiver by the Academic Dean or enrolled in AP US History.

**AP US History is open only to juniors. Students are required to take the AP exam in May.*

HISTORY 11: UNITED STATES HISTORY

United States History at CRMS is organized around various thematic headings, such as Conquest and Confluence, Civil Rights and Liberties, War and Peace, and American Identities and Ideology. Within each theme are units of study intended to break down the overall summary into specific, analytical pieces of evidence and interpretations. This class does not use a textbook. Instead, it relies heavily on written narratives by such historians as Howard Zinn and Paul Johnson as well as primary documents and visual documentaries and movies. The culminating project is a 12- to 14-page research paper that is assigned between and supported by both the United States History and American Literature classes. The assignment itself reads as follows: “Think of the literature and/or literary genre (poetry, science fiction, short story, gothic/horror, postmodernism, creative nonfiction, realism, etc.) that you are most interested in, engaged in, and captivated by. Now think of social/historical topics that are of interest to you such as Native American, African American, and women’s history, environmental history, political history, social movements, or military engagements. Think of the ways in which these two branches of the humanities inform and complement one another and ultimately provide us as humans with a more profound and genuine ability to connect with one another based upon a greater understanding of our culture and historical inheritance.

ADVANCED PLACEMENT UNITED STATES HISTORY*

(Amanda Leahy will contact you regarding required summer reading.)

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. Students will learn to assess historical materials – their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations presented in historical scholarship. AP U.S. History will thus develop in students the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. *(Adapted from The College Board Advanced Placement Program.)*

July 1 deadline!

CRMS

MATH

A TI-84 Graphing Calculator is required for all math courses.

CRMS requires three years of Math, with Algebra II at a minimum.

☐ GEOMETRY – This course begins by introducing concepts of plane and coordinate geometry through such topics as angles, triangles, lines, circles, polygons, area similarity, congruence, and right-triangle trigonometry. The second semester includes an introduction to perimeter, area, surface area, and volume by deriving formulae and solving problems. Students learn deductive reasoning using proof to expand fundamental geometric concepts by writing logical arguments and justifying conclusions. Throughout the year, geometric constructions serve to illustrate many of the topics. Furthermore, students use the graphing calculator as a vehicle to increase understanding through exercises and projects. Prerequisite: Algebra I

☐ ALGEBRA II – This course builds on the foundation in Algebra I to prepare students for future math courses. Students study various classes of functions, including linear, quadratic, exponential, and logarithmic functions. Applying the function to real-world situations through mathematical modeling provides students with an answer to the question, “What is all this algebra good for?” Integrated throughout the year are the fundamental algebraic skills of graphing, solving equations, and simplifying expressions. The graphing calculator is used as a tool for discovering and for making connections between the symbolic, numerical, and geometric representations of algebraic concepts. Students are evaluated through tests, quizzes, projects and presentations. Prerequisite: Geometry

☐ ENVIRONMENTAL STATISTICS – In this course, students use statistics and mathematical modeling to examine environmental data. Linear, exponential, logistic, and trigonometric functions are used to model change in different populations, environmental impacts, and natural phenomena. Students study measures of center and spread and probability theory to help understand and describe different sets of data, as well as to think critically about the statistics presented by the media. This course is entirely project-based. Students are asked to gather, examine, and explain relevant data about a population or ecosystem. In all these topics, technology is an invaluable tool in understanding the concepts as well as solving problems. Technology utilized includes the TI-84 calculator, Excel, PowerPoint, and the internet. Prerequisite: Algebra II

☐ COMPUTER PROGRAMMING – This course covers the basic concepts of modular programming. Students will explore programming structure, use of variables and constants, and design of an intuitive user-interface. Prerequisites: Algebra I and II

MATH

A TI-84 Graphing Calculator is required for all math courses.

PRECALCULUS – This course explores functions and their applications. Emphasis is on modeling polynomial, rational, exponential, logarithmic, and trigonometric functions. Operations, transformations and inverses of functions are explored fully. Students are expected to use multiple representations of functions to solve problems, including algebraic, graphical, numerical, and verbal methods. The graphing calculator is used as a tool to explore new concepts as well as to solve problems in different ways. Lastly, sequences and series are introduced and used to develop an understanding of limits. Conic sections and polar coordinates are covered, time permitting. Students are assessed in a variety of ways, including tests, quizzes, projects, and presentations.

Prerequisite: Algebra II

CALCULUS I – This course covers $\frac{3}{4}$ of the curriculum of a standard AP Calculus AB course. It is centered on the four central concepts to be mastered in the first-semester college course in calculus—limit, derivative, definite integral, and indefinite integral. For each concept, students are asked to know the precise definition, have an intuitive understanding of what the concept means, be able to “do” the concept, and be able to apply it in the mathematical and real world. There are four ways these concepts are presented to the student—numerically, graphically, algebraically, and verbally. By using these multiple representations, students with a wide range of abilities can be successful in Calculus. With additional independent study, students can complete the AB curriculum and may earn college credit through successful performance on the Calculus AB Advanced Placement examination. Prerequisite: Precalculus

AP CALCULUS BC – This course is a continuation of Calculus I. It completes the topics of the AP Calculus AB curriculum, and then moves on to cover the full curriculum of Calculus BC. The course continues to emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed numerically, graphically, algebraically, and verbally. Topics covered include more sophisticated methods of differentiation and integration; polar and parametric curves; work with polynomial approximations and infinite series; and vector-valued functions. Time permitting, multivariable calculus topics may be discussed. Students will be prepared to sit for the Calculus BC Advanced Placement examination in the spring.

Prerequisite: Calculus I

July 1 deadline!

CRMS

SCIENCE

Chemistry is required for those who have not yet taken it.

CHEMISTRY – Explores the composition and behavior of matter in all its forms. Topics include the distinction between metals and nonmetals, bonding, the periodic table, basic types of chemical reactions, gas laws, and more. Studies emphasize lab work, critical analysis of experimental results, and use of abstract models as a basis of explanation.

~OR~

SCIENCE ELECTIVES

are for students who have successfully completed Biology and Chemistry.

Placement in electives is based on choice, balanced class size, and schedule compatibility.

Courses may be canceled if demand is insufficient or staffing is not possible for the upcoming year.

Seniors are given priority for placement in electives.

~1st, 2nd, 3rd CHOICES REQUIRED

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE. This class is designed to be the equivalent of a college-level environmental science course. We will explore the concepts of ecological interdependence, population dynamics, and geological processes. We will investigate the effect that humans have on those processes at a local, regional, national, and global level. An integral part of the course includes significant field and laboratory work. Prerequisites: Biology and Chemistry. *Taking the AP exam in May is required.*

GEOLOGY – Geology is an investigation of the earth's deep history. There is more geologic time represented in the landscape of the Roaring Fork Valley than anywhere in Colorado, and the setting of CRMS provides an outstanding venue for students to develop the skills and concepts necessary to interpret the geologic record. First semester is largely field-based and focuses on the geologic themes of the American West. Second semester is global in scope and explores the origin of the solar system, impact events, plate tectonics, glaciology, and climate change. Chemistry is a prerequisite.

PHYSICS – Physics is an exploration of fundamental natural phenomena frequently expressed through the language of mathematics but also requiring significant verbal reasoning. The notion of mathematical models as a description of the physical world leads to the discussion of the nature of knowledge and humanity's understanding of the world. Through guided inquiry, students will construct their own understanding and address common misconceptions regarding the nature of our world. Each major topic covered throughout the year will conclude with a project such as pneumatic rockets, spaghetti bridges, mousetrap cars, or a similar theme. Topics include the description and causes of motion, Newton's Laws, energy, momentum, simple machines, gravitational and electric fields leading to an exploration of simple electric circuits. Algebra II is a prerequisite.

July 1 deadline!

CRMS

SPANISH LANGUAGE

Not recommended or required for ESL students.

CRMS requires two years of Spanish but highly recommends three years.

SPANISH I – In this course, students are introduced to the Spanish language and the Spanish-speaking world. The course develops the four communication skills of speaking, writing, reading and listening as well as cultural awareness.

Have you had any prior Spanish? ___ YES ___ NO

SPANISH II – For students who have successfully completed Spanish I, this course continues to develop their communication skills in the target language.

SPANISH III – Based upon successful completion of Spanish II and teacher recommendation, this course continues to develop the students' ability to communicate effectively in the target language. In this level, students begin to study literary works.

SPANISH IV – Based upon teacher recommendation, this course offers students the chance to both refine their language skills and continue to study literary works.

SPANISH V – A combination of reading, writing, listening and speaking allows students to practice the new concepts introduced. Students will utilize language purely to communicate in a variety of settings, from academic lectures and discussions to real-life situations. They will refine and review all verb tenses to use proficiently, including complex verb tenses. Throughout the year, Spanish is used exclusively to guide instruction, for the full duration of each class period, and native languages are used only to clarify. Spanish V uses a variety of instructional guides, largely provided by the teacher. Spanish V also provides meaningful in-depth cultural studies for students.

SPANISH VI – A course designed for mastery of the Spanish language in all four areas of communication: reading, writing, speaking, and listening. This course expects that all entering students already have an intimate understanding of the Spanish language, perhaps even having spoken the language since childhood. Focus will be on individual needs based on past experience and the aforementioned four communicative skills. Themes for study will also be drawn from students' interests and past experiences, literature, current global issues affecting Spanish speakers, the diverse history of the Spanish-speaking world, and more.

★ *Please enter your e-mail address here and we will send you the placement exam: _____*

Please return the test to us as soon as you have taken it.

July 1 deadline!

CRMS

ARTS

THE CRMS ARTS PROGRAM encourages diversity of experience and offers opportunity for specialization. Students are expected to take advantage of both of those aspects of the curriculum while fulfilling their graduation requirements in the arts. A fee for materials may be charged.

Students may take a second art only as a sixth class.

Students interested in applying to art schools for college should discuss their course registration with a teacher in the Art Department.

~1st, 2nd, 3rd CHOICES REQUIRED from pages 7 and 8: ~

3-D ARTS

BLACKSMITHING – This course takes place in an atmosphere rich in history and is fueled by a dedication to developing the foundational skills of blacksmithing. The curriculum is designed to allow students to explore the potential of forged iron as expressive medium and is meant to inspire continued development of the blacksmithing process and technique. We will also examine the historical context, materials, geography, technology, and social aspects of iron and forge. A comprehensive and demanding program is employed that encourages students to discover and explore the many possibilities of what blacksmithing can be in contemporary forge work.

CERAMICS – This course is designed develop and support students in advanced techniques of making ceramic objects. Students will acquire an in-depth knowledge of form, volume, and space relationships by constructing hand-built and wheel-thrown forms in clay. Form, content, and creative problem solving will guide our practice. Experimentation with the embellishment of a clay surface will extend knowledge of line, texture, pattern, and variation. We will also examine the historical and cultural role of clay to broaden the student’s perspective of ceramic arts as an expressive medium.

SILVERSMITHING – In this course, students gain proficiency using the tools and materials to design and create projects in sterling silver. The principles and elements of design are studied as the foundation for self-expression. The history of silversmithing, properties of metals, significant artists, and identification of styles and techniques are covered throughout the year as the students make rings, chains, sculpture, boxes, do stone-setting and other projects using a variety of techniques.

2-D AND PERFORMING ARTS

DRAMA – This course will give students a better understanding of the elements of drama, not only through study but by actually creating drama. We will explore the history of theatre, improvisation, auditioning, scene work, acting, characterization, production, directing, technical theatre, and makeup. Students will work on the school’s drama productions and will direct one-act productions at the end of the year. *(Course may not be offered due to staffing.)*

July 1 deadline!

CRMS

ARTS

MUSIC CLASSES

are open to any instrument – voice, woodwinds (clarinet, saxophone, etc.), brass (trumpet, trombone, etc.), strings (violin, guitar, mandolin, banjo, etc.), piano (keyboard, synthesizer), or percussion (drum set, hand drums, marimba, etc.).

Arts classes will be assigned according to student choice, schedule compatibility, and, if demand is high, date of request. Courses may be canceled if demand is insufficient or staffing is not possible for the upcoming year.

Seniors are given priority for placement in electives.

~ 1st, 2nd, 3rd CHOICES REQUIRED from pages 7 and 8: ~

2-D AND PERFORMING ARTS (Cont'd)

DRAWING & PAINTING – Students will learn the technical skills and thought processes needed to be creative visual artists as we explore techniques of drawing, painting, printmaking and mixed-media design. Students will be expected to formulate ideas for creating art through visual observation, their imagination, and their own life experience. Throughout the course we will reflect upon what inspires artists while looking at art from a variety of cultures and times. We will begin by focusing on technical aspects of drawing, painting, and design. Later students will direct their own learning while working independently on a portfolio that demonstrates mastery of the skills and concepts we cover.

PHOTOGRAPHY - This hands-on course will instruct students in the basic operations of a digital SLR camera which includes proper camera handling, exposure control, depth of field, lenses, and how digital capture works. Students will learn how to manage digital files. Adobe Photoshop will be used as the digital darkroom and for basic image correction as well as creative assignments. The impact of photography on society will be discussed as well as history and significant photographers and current issues. **Students MUST have their own digital SLR camera for this class.**

BEGINNING MUSIC – For students with little or no music experience. Each week will be spent studying music theory, practicing, and rehearsing. Our goal is to teach students the skills and techniques necessary to organize and rehearse music in preparation for live performance.

INTERMEDIATE MUSIC – We will review and continue to study music theory as well as practice and rehearse songs selected by the students. Our goal is to teach the intermediate music student the skills and techniques necessary to organize and rehearse music in preparation for live performance.

ADVANCED MUSIC – Students will study many varieties and genres of advanced music which will be defined by the class and instructor in preparation for live performance. Students will review intermediate music theory and will work toward the study of advanced music theory, analysis, improvisation, and composition.

Return this packet as soon as possible to:

Sally Valin, Registrar
CRMS
1493 County Road 106
Carbondale, CO 81623

Please contact Sally Valin if you have any questions:

Phone: (970) 963-2562
FAX: (970) 963-9865
E-mail: svalin@crms.org

REQUIREMENTS FOR GRADUATION

Students must earn a minimum of 20 credits during 9th through 12th grades. While they must take the requisite number of courses each term and they must meet the departmental requirements, students are strongly encouraged to exceed 20 credit hours to enhance their college admissibility. Freshmen and sophomores are required to take six courses each semester. Juniors and seniors must take five courses each semester; those who have proven themselves capable may take a sixth course. All departmental requirements refer to credits earned in grades 9 through 12. **Middle school credits are not transferable**, though they will be used for placement purposes. Summer school courses taken prior to enrollment at CRMS will be considered for credit (with an appropriate transcript) on an individual basis.

International students are required to take one English class each year at CRMS. Placement in English, History, or Chemistry will be determined by CRMS faculty. A math placement test may be required. Modern language is not required for ESL students.

ENGLISH:	Four years are required, including American Literature.
MATHEMATICS:	Three years are required (through Algebra II, at a minimum). A fourth year is strongly encouraged.

Of the following four departments, students must have at least three years of credit in three departments, with a minimum of two years in one department. We strongly encourage three years in all departments.

HISTORY:	American History is required.
LAB SCIENCE:	Biology and Chemistry are required.
SPANISH LANGUAGE:	At least two years of Spanish are required.
FINE ARTS:	An Arts Survey course is required for freshmen.

Course changes: Students may add a course during the first week of either semester-long or year-long courses. Courses may be dropped during the first two weeks. Course change requests must receive the approval of the student's advisor, parents, and the academic dean. Changes shall not occur, nor shall partial credit be given, after the conclusion of the add/drop period, unless extraordinary circumstances exist. All changes must conform to minimum course-load, departmental, and graduation requirements.

A student must earn a C- or above in math and language to proceed to the next level, with rare exceptions granted by the department and the academic dean. In some cases, particularly those involving academic warning, a student may be required to attend summer school in order to return to CRMS. A repeated course will earn only one credit, and the GPA will reflect an average of the original and the repeated grade. **CRMS will not accept summer school or online course work in place of a required course.**

If a student wishes to advance to a higher level of study, **summer school work is possible** with permission from the academic dean. However, the course will not be used to fulfill departmental or credit requirements for graduation and will not figure into the student's overall GPA. Students must attend CRMS during their senior year in order to graduate.