SARAH T. REED HIGH SCHOOL

Course Catalog

5316

2024 - 2025 COURSE CATALOG

Sarah T. Reed High School gives young people of high intellectual promise an opportunity to reach their maximum potential as scholars and productive, creative citizens of a technology-rich global community. We emphasize problem-solving, exploration, abstract reasoning, and other creative activities through an enriched program of advanced work in required courses and electives. Excellence has been and will continue to be the daily expectation of our administrators, teachers, students, and parents.

Each student has available the services of a qualified counselor who has information regarding his/her assigned students. This information enables the counselor to better assist the student regarding aspects of the educational program. We hope that both students and parents will make use of these services. Telephone calls should be directed to the counselors' office.

We hope that this guide will help you and your parents plan your school program while at Sarah T. Reed High School. At the critical decision points in your high school career, you must review your educational and career goals with your counselor and thoughtfully develop a program of study that will help you achieve these goals.

Graduation requirements are designed to give you a balanced program that will help you develop the skills and understanding necessary to become a well-educated person. To fill out your course of study, a wide range of electives are available. These, if wisely selected, will help you explore and develop your own interests and abilities.

ALTHOUGH YOUR PARENTS AND COUNSELOR WILL HELP YOU IN PLANNING YOUR HIGH SCHOOL CURRICULUM, RESPONSIBILITY FOR THIS PLANNING RESTS WITH YOU.

You should consider the following:

1. Know what the graduation requirements are. Are you meeting these in your planning?
2. What about college entrance requirements?
3. Plan ahead - not just for next year but also for your entire high school career.
4. Before selecting a course, check the course description to be sure it fits your needs, interests, and abilities and that you have completed the prerequisite coursework necessary for enrollment.

Counselors' Office:
Jovahn Wright - 9th - 12th grade

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COURSE PROGRAMMING

Twenty-four (24) units of credit are required for graduation from Sarah T. Reed High School. Reed specifies twenty-one (21) of those units. The rest are electives. We operate on an eight-period rotation with four classes meeting each day. All students must be enrolled in a minimum of six subjects. Ninth graders are required to enroll in six classes, Olympian, and one study hall or elective. We require a minimum of five academic courses for 9th, 10th, and 11th graders: usually one each in language arts, mathematics, science, social studies, and a world language. Students carrying seven subjects may drop an elective course, using the deadlines below, provided that dropping the course does not endanger their earning enough credits for graduation or drop them below the six-course minimum.

Deadlines for dropping or adding courses, including electives:

	Adding a course for credit	Dropping a course or transferring to a different level of a course
Semester 1	August 24, 2024	September 5, 2025
Semester 2	January 18, 2025	February 1, 2025

We accommodate students who attend the New Orleans Career Center (NOCC) or New Orleans Technical Engineering Program (NOTEP) by allowing them to take only four courses at Reed each year, with approval of the counselors. NOCC students must take U.S. History at Reed during their junior year. In order to maintain continuity of instruction and the learning process, students are allowed to enroll at NOCC only at the beginning of the school year.

TAKING COURSES OFF CAMPUS

- Students and parents should understand that we will count for retention purposes only the academic courses in the five major subject areas they take at Reed.
- Whenever there is room in a student's schedule for a required course to be taken at Reed, the student will take the course at Reed.
- Students may not take a summer course in order to advance to the next level in a discipline unless the student failed that course during the school year. Any exceptions must be approved by the administration.
- Once enrolled in Reed, students may not take elsewhere any course that Reed offers. We make exceptions to this rule only for NOCCA. Students may not use college courses to replace required courses offered at Reed.
- Students who have exhausted our academic offerings in a mandatory discipline will be required to take a UNO college class during the school day. This is most often done in mathematics or world languages. It is the student's responsibility to let the Academic Assistant Principal know the time of the class so that school classes may be scheduled accordingly. These classes must be scheduled within the time frame of Ben Reed class periods. Please take into account the time it takes to get to and from the UNO class. NOCCA students have their course selection approved by their counselor and MUST complete their coursework prior to January of senior year.
- Students who wish to advance in a discipline, for example mathematics or a world language, by taking a college class during the summer must first get approval from their current teacher and then get approval from the School Principal.

Note: Taking courses off-campus is a privilege. All credited classes taken off campus must be approved by the Principal. Reasons for lack of approval include but are not limited to the following: academic failure, incomplete work, attendance, discipline record, or any other issue that may impede their progress at Reed and misrepresent the culture and mission of our school.

SARAH T. REED GRADUATION REQUIREMENTS

We recommend that you plan all of your units through to graduation. In the chart below, the named courses comprise the 24 specified courses.

English I-IV	Students must earn four units during grades 9-12	4.0
Social Studies	World Geography, Civics or Government: Honors, U.S. History and one additional credit earned during grades 9-12.	4.0
Mathematics	Students must earn four units during grades 9-12.	4.0
Science	Biology I, Chemistry I, and at least two additional credits earned in grades 9-12.	4.0
World Language	Students must earn two units, with a minimum of two units in the same language during grades 10-12.	2.0
Physical Education I and II		1.5
Health		0.5
Arts Elective		1.0
Additional Electives		3.0
Total Units Needed for Graduation		**24.0**

Note: While all high school credits will be reflected on a student's transcript, credits earned prior to ninth grade will not count toward the 24 credits required for a Sarah T. Reed diploma.

ADDITIONAL GRADUATION REQUIREMENTS

1. Completion of at least three AP courses.
2. Completion of at least one Research Intensive course

Participation in the graduation ceremony is a privilege granted at the discretion of the school.

NOTE: Students who fail a course and still make retention are expected to make up the course the summer following the year in which the class is taken.

COMPREHENSIVE COURSE LIST

Typical Courses Per Grade Level:

Grade 9: Technical Writing , English I or English I H Civics or Government Math Essentials, Algebra I or Algebra I H Physical Science (Principles of Engineering) Quest for Success	**Grade 10:** English II or English II H World History Intro to Geometry and Geometry or Geometry H Intro to Biology and Biology I or Biology I H Physical Education I/II & Health Electives
Grade 11: English III, English III H, English III - DE U.S. History or U.S. History H Algebra II World Languages Science Course 2 Electives *Note: Student has option of NOCC or NOTEP	**Grade 12:** English IV, English IV H or DE Economics Advanced Math or DE: Pre-Calculus Science Course 4 Electives *Note: Student has option of NOCC or NOTEP

H = Honors; G = Gifted; AP = Advanced Placement Program; DE = Dual Enrollment.
Students may earn both STRHS and college credit through the University of New Orleans or Delgado.

- Students who choose to advance in Math as ninth graders or later are required to take four years of math, including Calculus or Stats.

Elective Courses:

Whether or not a specific elective is offered will depend upon the number of students choosing that course.

Semester Long (1 unit)		Semester Electives (1 unit)
Art I, II, IV Art History Band (Beg., Int., Adv. I and II) Computer Science Intro to Business Computer Applications Creative Writing I, II, III H Media Arts I Media Arts II Fine Arts Survey Music Appreciation Applied Music	Digital Photography** Physical Education III and IV* Speech I Talented in Visual Arts I - IV ⁰ Cybersecurity I Digital Media I/II	ACT/SAT Test Prep <u>STEM Pathways (1 unit)</u> Principles of Engineering * Available to juniors and seniors only **Available to sophomores, juniors, seniors only ⁰if qualified for a Talented IEP ∞not offered every year

For most classes, the final exam grade in each semester will be 25% of the final grade for that semester. In classes requiring the state LEAP exam, the test result will count as between 15%-25% of final grade in the course.

Honor Roll Certificates will be issued at the end of each semester to students whose semester GPA is 3.85 or higher and who have no grades less than a "B" on their semester report card.

Grade	Percentage
A	100-90
B	89-80
C	79-70
D	69-60
F	59-0

A GUIDE TO THE ADVANCED PLACEMENT PROGRAM AT SARAH T. REED

AP courses are introductory college courses taught at high schools according to the guidelines established by the College Board in its "Course Descriptions" published annually for each subject. These courses offer our students the opportunity both for college-level learning and for demonstrating their accomplishments. Through the AP examinations that we administer each May, students may earn college credit and/or advanced placement at the college of their choice. Over the past decade, increasing numbers of our students have taken AP courses and exams, and they have demonstrated their capacity to excel.

During the pre-registration process at the beginning of the second semester, each student receives this bulletin in the homeroom. It describes the program's expectations and benefits, and how it maintains quality and integrity. STUDENTS AND PARENTS SHOULD ALL READ THIS BOOKLET to avoid any misunderstanding. We expect students to decide upon their course selections in the spring and to stick with their decisions.

More details about the AP program are available through College Board www.collegeboard.com

RECOGNITION OF REED'S AP STUDENTS

Please read the AP Bulletin for Students and Parents for information on AP recognition such as sophomore standing, AP Scholar Awards and the AP International Diploma for Overseas Study.

Reed students have been extremely successful in qualifying for AP Scholar, Scholar with Honor, Scholar with Distinction, and National AP Scholar Awards. The AP program sends a certificate to notify award recipients each fall. After that, all transcripts will include the student's AP Scholar designation.

ADVANCED PLACEMENT COURSES AT REED

(Please see individual course descriptions in the body of this booklet.)[1, 2]

American Government

Computer Science Principles

Human Geography

Macro Economics

Studio Art 2D Design, 3D Design

NOTES:

1 The courses and the number of sections we offer depend upon the number of students who select the course.

2 Students need not enroll in an AP class to take the national AP exam. Anyone may opt to take the AP National Exam.

Seek advice from your counselor at the beginning of the year. Such students probably need some independent study to make them aware of the material that the exams cover.

ENGLISH

Description of Program

The Sarah T. Reed English Department strives to instill in our students a genuine love of language and all of its rhetorical possibilities. We create a safe yet dynamic learning environment that fosters experimentation, creativity, craftsmanship in writing, interactive reading, and critical thinking. Relying heavily on a variety of discussion techniques to encourage connectivity among ideas and holistic thinking, our classes can be fast-paced and exciting, yet we also reflect to deepen our learning. Our special mission is to help our students experience the pleasure of studying literature, which enables us to connect to and explore the human experience.

THE DISTINCTION AMONG HONORS, GIFTED, AND AP COURSES IN ENGLISH

All the Gifted Courses in English are enriched extensions of the Honors Courses. Both levels include activities which require students to conduct independent research and produce creative projects. Gifted level courses engage students in independent reading and provide them with opportunities to study literature on their own.

In both Honors and Gifted classes, discussions and writing assignments emphasize critical analysis and close reading of a variety of literary forms. English I and II classes (both Gifted and Honors) prepare students for English AP courses they may choose to take in their junior and senior years. AP Courses are designed to provide students with the writing and comprehension skills they need to earn college credits in English through the AP National Exams as well as to prepare them for the reading, writing and speaking activities required to be successful in college and in their careers. Students in AP courses study rhetorical analysis, argumentation, and advanced literary analysis, as well as working to develop a sophisticated vocabulary and mature syntactic skills.

Students who earn the designation "gifted" through the special education evaluation process should elect courses with the "gifted" designation for English I and English II (and for English III and/or English IV, if they choose not to select the AP option). All others should select those with the "honors" designation. In junior and senior years, both Gifted and Honors students have the option of selecting AP classes, which are academically weighted and serve as an impressive addition to their transcripts. AP classes are open to all students who are willing to commit to a challenging reading load and intensive writing practice.

ENGLISH I, ENGLISH I H 1 Semester, 1 unit Prerequisite: None

Current Tier 1 Curriculum: Savvas Learning Company: myPerspectives

Students in this general or pre-AP course study a variety of genres, including the short story, novel, poem, play, and essay. Class assignments require development of analysis skills through discussion, collaboration, and writing. Students write analytical, persuasive, and narrative essays, develop critical thinking skills, and learn peer evaluation techniques. Teachers closely monitor student progress to help students develop a sense

of personal responsibility for their own work and thereby help them to accomplish the transition to high school language arts. Writing assignments focus on teaching necessary structures to deepen understanding of creating cohesive, organized, and sophisticated analytical writing. Students also learn literary terminology and develop vocabulary skills in preparation for higher-level language classes and standardized tests. In this full-year freshman-level foundational English course, students will improve reading, writing, listening, speaking, and language skills. This course is designed for students to meet the 9th grade Common Core State Standards for English Language Arts.

ENGLISH II, ENGLISH II H 1 Semester, 1 unit Prerequisite: Completion of English I

Current Tier 1 Curriculum: Savvas Learning Company: myPerspectives

This general or pre-AP course is dedicated to dissolving the "danger of a single story" (Adichie) and, as such, presents readings ranging from ancient to contemporary texts, pulling from authors with a diverse range of characters and narratives. Students analyze the components of various works, examine universal themes as well as methods employed by individual authors, and increase their knowledge of literary terminology. Building off of the structures studied in English I courses, English II narrows in on the power of close reading, allowing students to examine the tools that authors use to build larger ideas. Students write both process-based and timed drafts of essays, allowing for more practical application of AP testing skills. Students also continue developing vocabulary and test-taking skills. In this full-year sophomore-level English course, students will continue developing skills begun in English 9. This course is designed for students to meet the 10th grade Common Core State Standards for English Language Arts.

ENGLISH III, H, or DE 1 Semester, 1 unit Prerequisite: Completion of English II

Current Tier 1 Curriculum: Savvas Learning Company: myPerspectives

This course builds on the structure and close reading skills that students developed in English I and English II. Students lead class discussions and make individual and group oral presentations, in addition to writing in-class literary analysis essays and out-of-class essays, often based on literary criticism. The course covers a variety of shorter and longer works of fiction, typically including a robust study of poetry and several novels and plays. Students enrolled in the AP program will prepare for the AP English: Literature & Composition Test. In this full-year junior-level English course, students will continue developing skills practiced in English 10. This course is designed for students to meet the 11th grade Common Core State Standards for English Language Arts and includes a study of American Literature.

ENGLISH IV, H, or DE 1 Semester, 1 unit Prerequisite: Completion of English III

Current Tier 1 Curriculum: Savvas Learning Company: myPerspectives

This course builds on the structure and close reading skills that students developed in English I and English II. Students lead class discussions and make individual and group oral presentations, in addition to writing in-class literary analysis essays and out-of-class essays, often based on literary criticism. The course covers a variety of shorter and longer works of fiction, typically including a robust study of poetry and several novels and plays. Seniors will hone reading and writing skills to prepare them for the workplace and civic participation. The course is intended for students who wish to continue developing core skills from the English 11 course. Students will enhance reading, writing, research, language, and speaking/listening skills through various course activities. Course readings will be drawn from a variety of genres including technical writing, business correspondence, news media, and fiction. A writing curriculum will include technical and business writing, writing for personal use, and expository writing that integrates research. Submission of essays and major projects is required to pass the course.Students will also have guided help with their college essays. Students enrolled in the AP program will prepare for the AP English: Language & Composition Test.

ENGLISH ELECTIVES

TECHNICAL WRITING I 1 Semester, 1 unit

Current Tier 1 Curriculum: Savvas Learning Company: myPerspectives

This course includes the skills in verbal and written communication that students will need to be successful in the workplace. Students will know and use the terminology in their chosen field of work. They will understand, summarize, interpret, and compare information from simple and complex graphics to identify trends and to make informed decisions. They will also demonstrate proficiency in writing and presentation skills by producing different technical writing products, including formal research reports, formal presentations, and workplace writing (e.g., technical reports, manuals, explanations of how to understand or use a product or service, proposals, memoranda, cover letters). In creating those products, students will demonstrate an understanding of the context in which communication occurs, the ethical issues involved, how to identify and address the needs of audiences, and the methods and strategies for organizing and presenting information

SPEECH I I Semester, 1 unit Prerequisite: None

Speech I has dual components: theory and practice. The theoretical component of the class, primarily first semester, moves from the ethics of communication (building responsibility and confidence), to person to person (listening, nonverbal communication, interviewing and group discussion), to preparation and process. In the second semester, the major focus will be on public speaking. Students will be expected to apply research skills, prepare and deliver the major types of speeches. In addition, Parliamentary Procedure and Oral Interpretation will be studied and practiced.

FINE ARTS

The arts engage the imagination, foster flexible ways of thinking, develop disciplined effort, build self-confidence, and instill respect for other cultures. They enrich our lives through self-expression and study of world art. We encourage students to pursue arts electives as an essential part of a balanced, well-rounded education.

ART

ART I 1 Semester, 1 unit Prerequisite: None

Fundamental visual art experiences designed for students with interest or facility in art expression. Topics of concentration include projects in drawing, painting, color theory and art history. Photography is an option for instructor-monitored independent study.

ART II 1 Semester, 1 unit Prerequisite: Completion of Art I

This course is designed for students with apparent facility and interest in art expression. Individual needs of students drive the choice of topics, which may include intermediate drawing, art history, painting, design sculpture, printmaking and individually selected projects. Photography is an option for independent study.

MEDIA ARTS: Digital Media I 1 Semester, 1 unit

9th Grade Elective: Class Size >15

Media Arts 1 is a course that offers basic instruction in an array of imaging techniques from the Fine Arts to Commercial Arts: digital photography, videography, industry standard software (Adobe Photoshop, InDesign, Illustrator, Premiere, Muse, etc.) as well as historical and contemporary issues in the field. Beginning with focus on fundamental skills necessary for working with the "Still Image" (Photography emphasis) and the "Moving Image" (Animation, Video work). Components of publication, production, and creation of a professional portfolio with an emphasis on Creative Suite software will be addressed. No prior experience necessary. Part 2 is a continuation for those students that want to go further with the course and/or get a whole unit of arts credit. This course also counts towards the LSU Digital Design Pathway.

MEDIA ARTS: Digital Media II Semester, 1 unit

9-12th Grade Elective: Class Size >15

An extension of Media Arts II. Students will learn advanced filming, editing and production techniques. Skill-building in Adobe Creative Suite and industry standard software will be explored. Students will build their professional media arts portfolio. Guest speakers and career options will be featured. Students in Media Arts III will be focused into independent studies based on their work and interests founded in Levels I and II.

Digital Design: Photography 1 Semester, 1 unit Prerequisite: None

Students will learn photography, photojournalism, principles of layout and design, news writing, editing, social media marketing, sales and publication management through production of the school yearbook. Students will serve as editors of The Falcon and earn grades based upon the performance of their editorial duties as well as upon class-work. The workload of Publications (both in class and out of class) is substantial, as are the responsibilities. Student editors should be willing to work before and after school and during study halls for several additional hours per month. To excel in this course, students must be production-oriented and willing to assume leadership roles.

CyberSecurity I 1 Semester, 1 unit Prerequisite: None

This course is designed to foster interest in Information Technology and networking careers. Through hands-on projects, students learn to install and administer operating systems, to have computers communicate with each other and to detect and repair vulnerabilities in systems and networks. This course also covers connections of computing and society, including ethics, security, and privacy in on-line communication. Students taking this course will be expected to take the CompTIA IT Fundamentals certification exam.

MUSIC

BAND: BEGINNING, INTERMEDIATE

2 courses, 1 Semester Each, 1 unit each Students may enroll for four years, earning 1 unit each year.

Prerequisite: Junior high or middle school band experience or sufficient private training and permission of the director.

Main areas covered are concert band music, rehearsal techniques and history of music styles played. Activities will include rehearsal (possibly before and after school or at night) and performance of band and orchestra music (first, second, and third players of each necessary instrument), all concerts and extra rehearsals, festivals and graduation. Each member must play either a solo or in an ensemble for the LMEA solo and small ensemble festival. All students, except football players or cheerleaders, play at each football game at which the band performs. First chair players must audition for All-State Band and/or Orchestra and for District Honors Band. We require participation in performance activities.

MUSIC APPRECIATION 1 Semester, 1 unit Prerequisite: None

In this course, students will develop a fundamental knowledge of music. This includes the ability to grasp and understand basic elements of music structure. They will develop the ability to recognize, understand, and describe the basic materials of music, as well as basic note- reading and music notation skills. Skills learned in this class will lead to a thorough understanding of music composition and music theory.

TALENTED IN THE ARTS PROGRAM*

TALENTED IN VISUAL ARTS (TAV) I 1 Semester, 1 unit each

This is a foundation course that builds skills in two-dimensional and three-dimensional design. Students will study drawing with emphasis on perspective, proportion and value in pencil and colored pencil. They will create paintings in watercolor, gouache and acrylic, concentrating on brushwork and detail in compositions that are abstract as well as realistic. They will construct ceramic sculpture as well as vessels.

MATHEMATICS

The Mathematics Department provides a comprehensive and extensive program of study for all students. The curriculum will enhance and further develop computational proficiency, problem-solving techniques, critical-thinking skills and the conceptual understanding of the language and science of mathematics in all students. In keeping with the recommendations formulated by the National Council of Teachers of Mathematics in their Standards for Secondary School Mathematics Curriculum Guide, independent research, mathematical modeling, and the use of new technological aids, such as the graphing calculators and computers are paramount to the instructional program.

We require that a student successfully complete four full-year mathematics courses at Reed. Students may take more than the minimum four full-year courses; any course taken beyond the required four courses is an elective.

THE DISTINCTION AMONG HONORS, GIFTED, AND ADVANCED PLACEMENT PROGRAM (AP) COURSES IN MATHEMATICS:

All the Gifted courses in mathematics are enriched extensions of the Honors courses. Gifted course activities require students to conduct independent research, produce creative projects, and engage students in independent readings and study on their own. We require students to communicate mathematically, demonstrating their understanding of the systematic development of course skills, and to make generalizations about topics they have investigated using higher level analytical and problem-solving skills. We design the AP courses to give students the skills and understanding they need to earn college credits through the AP National Exams.

Students who earn the designation “gifted” through the special education evaluation process should elect the “gifted” designation for their courses. All others should select those with the “honors” designation. All students may elect AP courses.

ALGEBRA I 1 Semester, 1 unit Prerequisite: None

Current Tier 1 Curriculum: SPRINGBOARD

This course is an in-depth study of real numbers and their relationship to one another, including relevant algebraic notation and symbolism. It includes operations on real numbers, polynomials, equations, factoring, functions, inequalities, rational and irrational numbers, quadratic functions, and practical applications of these concepts in related disciplines. Technical reading and writing, problem- solving, and practical applications form an integral part of the course. Students use calculators to arrive at conclusions inductively and then prove those conclusions deductively. Graphing, both as a means of displaying data and analyzing data in one and two dimensions, is an integral part of this course. Other topics include: exponents, function analysis, quadratics and their application and statistics. A sound foundation in arithmetic and pre-algebra skills is essential for success in this course.

GEOMETRY I or GEOMETRY H 1 Semester, 1 unit Prerequisite: Successful completion of Algebra I and/or based on LEAP 2025 Algebra I scores

Current Tier 1 Curriculum: SPRINGBOARD

Prerequisite: Completion or concurrent enrollment in Algebra I (with permission of department)

This course incorporates goals designed to develop higher order thinking skills through the study of Euclidean Geometry. Students learn the basic principles of plane, solid, and coordinate geometry while developing a logical system of deductive thought. Students develop skills for constructing and modeling figures they investigate. They also make conceptual and numerical generalizations about the properties of the figures they construct. Students are introduced to basic trigonometric principles as they relate to the right triangle and use laws of sines and cosines to solve real world problems. The basic content of this course is plane geometry with integration of some space and coordinate geometry. This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods) and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

ALGEBRA II 1 Semester, 1 unit Prerequisite: Successful completion of Geometry I

Current Tier 1 Curriculum: SPRINGBOARD

Prerequisite: Completion of Algebra I and Geometry or concurrent enrollment in Geometry (with permission of department)

Students review the concepts of Algebra I, with a fuller treatment of each topic. They also study matrices, conics, probability and logarithms. Students perform multiple operations on real numbers, algebraic expressions, complex numbers, polynomials, exponential expressions and logarithmic functions. Students will graph and find zeros of polynomial, exponential and logarithmic functions. They use different mathematical models or techniques to apply knowledge and gain a deeper understanding of mathematics. They make connections among their mathematical courses and between mathematics and its growing applications in other fields. They express mathematical ideas through speaking, writing, demonstrating and modeling. To develop an understanding of the various approaches to solving a problem, students and teachers generate strategies and explore them. Students use calculators to assist them with lengthy computations, graphing functions through a variety of variable changes, and for other relevant purposes. We have designed this course to provide a solid foundation of algebraic skills and concepts and to expand this knowledge into higher levels. Both the content and structure of the course are appropriate to the mathematical maturity and sophistication of the successful Algebra II student. The mathematical maturity and sophistication developed here and in earlier courses are essential for course work beyond this level. This course expands on concepts covered in Algebra 1 but develops a deeper understanding in the complex number system and logarithms while introducing more advanced algebra topics. Algebra II topics will be studied beyond what was previously studied in Geometry.

Advanced Math 1 Semester, I unit Prerequisite: Successful completion of Algebra I and Algebra II

Advanced Math is designed to prepare students for college mathematics. Major emphasis will be placed on the teaching of skills needed to enter a freshman level college math course. Major topics covered include a review of geometry and trigonometry.

PRE-CALCULUS - DE only 1 Semester, I unit Prerequisite: Successful completion of Algebra II

In this course, modeling, exploration, data analysis, abstract reasoning, problem solving, and creative inquiry are used to enhance students' understanding of the different applications of functions investigated in previous algebra courses, and to extend their study of triangular measurement queried in geometry. Specific concepts investigated include: logic, relations and functions (logarithmic, exponential, logistic, etc), analytic geometry (conics), vectors, linear programming, matrices, sequences and series, and limits. Trigonometric functions and identities, periodic functions of real variables, and techniques for measuring quantities associated with oblique and right triangles are also investigated. The graphing calculator is one of the fundamental tools utilized throughout this course.

PHYSICAL EDUCATION

PHYSICAL EDUCATION I 1 Semester, 1/2 unit Prerequisite: None

This class is designed to develop strength, coordination, flexibility and cardiovascular fitness. Students will participate in activities such as basketball, volleyball, cabbage ball, soccer, and track and field to help with development of large muscle groups.

HEALTH 1 Semester, 1/2 unit Prerequisite: Completion of Physical Education I

The Health program is designed to encourage and promote lifestyles based on the importance of wellness through vigorous activities and good health habits. Topics shall include, but are not limited to the following:

a) Health risks and their relationships to the quality of life and longevity, b) Physical activity, c) Healthy eating/being a literate consumer, d) Cardio-respiratory conditioning, e) Stress coping techniques, f) Basic physiology, g) Sex education, h) Teen dating violence, i) CPR/First Aid, j) STD's, k) Conflict Resolution, l)Suicide Prevention, and m) CADA-Council on Alcohol & Drug Abuse.

PHYSICAL EDUCATION II 1 Semester, 1/2 unit Prerequisite: Completion of Physical Education I

This class is designed to continue developing strength, coordination, flexibility, and cardiovascular fitness. Students will develop their fine motor skills by participating in activities such as badminton, flag football, hockey, ultimate frisbee, bowling,golf, and recreational games.

Strength and Conditioning 1 Semester, 1 unit each

Prerequisite: Completion of all previous levels of Physical Education and membership on an athletic team at Reed. Requires approval of the Athletic Director. This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students

will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

SCIENCE

Science courses at Sarah T. Reed are offered at all levels. Four years of science are required. Courses include Biology I , Chemistry I , Environmental Science, and Earth Science. Laboratory exercises are integrated with lecture and hands-on activities. The Science Department views nature as an integral part of the human experience. It is felt that an understanding of nature enhances one's life experience by offering awareness of how one affects the other. A respect for nature may lead to increased self-respect, and an understanding of nature and its processes may lead to increased understanding of self. This important link is viewed as a worthy goal for our students.

The department will make extensive use of laboratory facilities with up-to-date equipment and technology. Local experts and university facilities are utilized to pursue research goals. A bridge is built between the sciences and math through statistical data analysis, computer applications and quantitative explanations for natural phenomena.

ENVIRONMENTAL SCIENCE 1 Semester, 1 unit Prerequisite: None

The Environmental Science course is designed to be the equivalent of an introductory college course in environmental science. The course draws from a diverse range of scientific disciplines, including biology, chemistry, geology and ecology. Environmental Science combines scientific principles and analysis with an extensive research and field-based laboratory component to provide students with the methodologies and concepts to understand the interrelationships in the natural world, to identify and analyze problems both natural and human-made, to evaluate the risks associated with these problems, and to examine alternative solutions to preventing and resolving them. Students will be exposed to and participate in forward-moving research and problem solving in the environmental science community.

BIOLOGY I or H 1 Semester, 1 unit Prerequisite: Based on 8th grade LEAP 2025 scores and/or teacher recommendation

This is a general survey course of the discipline of biological science. It is of tremendous scope due to the nature of studying life itself from the simplest to the most complex organisms, including their molecular components and evolutionary histories over geologic time. The study of biology includes many concepts from other disciplines (most notably chemistry, physics and math) necessary to understand how living things function and interact.

The goal of this course is to introduce students to this expanding branch of science by focusing on the broad concepts and central themes of biology. Areas of emphasis include the diversity of living things, the major life processes carried out by organisms, the structure and function of living organisms, the interrelationships among living organisms, man's impact on the environment, and the relationship between biotechnology and societal issues. We include a study of cell biology, genetics, evolution, systematics, microbiology, a survey of the six kingdoms, human biology, and ecology.

Biology is the study of living things and their relationships with the nonliving world. This two semester introduction to Biology takes a hands-on approach to the study of life. Students will conduct investigations that will support understanding on topics such as the structure and function of organisms, matter and energy in organisms and ecosystems, interactions in ecosystems, inheritance and variation of traits, unity and diversity of life, and natural selection and evolution.

Information is presented through lectures, small group activities, technology, discussions and readings. The processes and skills of science and the scientific method are practiced through laboratory experiments and observations as well as individual reports and projects. This course encourages the development of the skills for completion of an independent research project.

CHEMISTRY 1 Semester, 1 unit Prerequisite: None

Chemistry is a quantitative study of matter and its structure/function relationships. This laboratory and research oriented course relies on mathematical models and relationships to explain and predict chemical behavior. The areas of study include applications of the metric system and the scientific method, formula writing, the periodic table, matter, energy, atomic structure, gasses, liquids, solids, solutions, bonding, shapes of molecules, chemical reactions, reaction stoichiometry, chemical kinetics, chemical equilibrium, acids and bases, oxidation-reduction, and electrochemistry. We place strong emphasis upon laboratory and independent research skills.

PHYSICAL SCIENCE I, or H 1 Semester, 1 unit Prerequisite: None

Physical Science is the study of various sciences (Geology, Oceanography, and Meteorology) that examine the origin, composition, and physical features of the Earth. This two semester laboratory course explores origins and the connections between the physical, chemical, and biological processes of the earth system. In this course, students will collect and interpret real-time data, utilizing problem solving and critical thinking to gain an understanding of the Earth. Earth Science provides the opportunity for students to engage in problem solving and ethical decision making about scientific and technological issues.

EARTH SCIENCE 1 Semester, 1 unit

Earth Science is the study of various sciences (Geology, Oceanography, and Meteorology) that examine the origin, composition, and physical features of the Earth. This two semester laboratory course explores origins and the connections between the physical, chemical, and biological processes of the earth system. In this course, students will collect and interpret real-time data, utilizing problem solving and critical thinking to gain an understanding of the Earth. Earth Science provides the opportunity for students to engage in problem solving and ethical decision making about scientific and technological issues.

SOCIAL STUDIES

Social Studies courses intend to broaden a student's understanding of themselves, their society, and the world in which they live. Through studying and analyzing the past and present in a developmental sequence that enhances a critical and appreciative understanding of the present and prepares students to be more creative, active participants in the social dynamics of their time. We require four years of social studies: one year each of Geography, World History, and American History, as well as Civics. All other courses are elective.

WORLD GEOGRAPHY 1 Semester, 1 unit

In this course, students will use the key concepts of the discipline of geography to explore foundational themes and to understand the ways societies around the world are structured. We will examine the impacts of social structures on our behavior and the impacts of human behaviors on those same structures. Special focus will be on the ways hierarchies (political, racial, ethnic, gender, and class) operate and how injustices that emerge from them are confronted in different cultures. Each student will learn and demonstrate research and writing skills.

CIVICS 1 Semester, 1 unit

This is a study of the three levels of government and the responsibilities of citizenship in the United States. Students will also relate constitutional principles to modern day issues. The course explores the roots of the American Republic and how society and government have shaped each other throughout its history.

AMERICAN GOVERNMENT H - 1 Semester, 1 unit (may substitute for the required Civics credit)

The course will cover the operation of the American democratic system and the various influences on the system.
Among topics covered are the constitutional underpinnings of the system, political participation, political culture, the influence of interest groups, PAC's and political parties, and the workings of the courts. It is comparable to one semester of college-level political science study, designed to prepare the student for the College Board Placement examination in American Government in May.

U.S. HISTORY I 1 Semester, 1 unit Prerequisite: None

The content of the honors course in U.S. History makes up a significant portion of the state mandated exit test for graduation, as well as many other standardized tests. It is a survey course of the history of the United States from Reconstruction to the present. It stresses society's racial, ethnic, and religious diversity; the organization of the economic system around free enterprise; the American political system built upon constitutional and representative government; the essential elements of conflict and cooperation in American development; the great influence of geography on our interaction with the environment; the expression of the national destiny in social and political concerns within a religious and ethical framework; encouragement of technological and scientific innovation by American society; and the integral part that art, music, and literature play in society.

**U.S. History AP is a college-level U.S. History survey covering social, political, diplomatic and economic history from the pre-Columbian era to the present time. Students will analyze both primary and secondary sources to analyze differing points of view of American History. Students will be prepared for the College Board Advanced Placement Exam in U.S. History in May.

WORLD HISTORY I 1 Semester, 1 unit Prerequisite: Sophomore standing

World History Honors is a survey course that gives students the opportunity to explore recurring themes of the human experience common to civilizations around the world, from ancient to modern times. Students will learn about the socio-economic, political, and ideological conditions of various time periods as they study historical events and cultural achievements of world regions. Rather than presenting multiple, specific histories of different civilizations, this course focuses on connections, parallels, and world systems. World History is a survey course that covers the development of Western Civilization from the Middle Ages to the present. The purpose is for students to develop an understanding of how our modern society has developed through learning more about past cultures, religions, wars, politics, developments, and advancements in society. This course focuses on developing life skills such as analysis, evaluation of evidence, research, communication skills, and the formation of strong arguments to present one's own views.

** World History is a reading and writing intensive history course that is meant to replicate the rigor of an introductory university course. The purpose of the World History course is to develop a greater understanding of the evolution of global processes and contacts. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences. Students will analyze primary documents and use major historiographical debates. Students will be prepared for the national exam in May.

WORLD LANGUAGE

The Department of World Languages offers two years of instruction in Spanish..

Students must earn two credits of world language while they are at Sarah T. Reed. Two of those credits must be in the same language. Some students with previous experience in a world language may attempt original placement in levels beyond Level I. Such students should speak to their counselors or a faculty member for their recommendation.

SPANISH I 1 Semester, 1 unit Prerequisite: None

This course is for the student who has never studied a world language. The course focuses on four skill areas: listening, speaking, reading, and writing, plus a general introduction to the geography and culture of the Hispanic world. We use a multimedia approach based on current textbook materials and their ancillaries. Upon successful completion of the course, the student should be able to participate in simple conversations using the present tense and the near-future construction, to understand and use basic everyday vocabulary and to respond to classroom commands. The student should also be able to write a paragraph of about fifty words, using the same verb tenses. With the aid of a dictionary the student should be able to read short stories written in these tenses.

SPANISH II 1 Semester, 1 unit Prerequisite: Completion of Spanish I or instructor's approval

This course is a continuation of Spanish I. It further develops the four basic skills of listening, speaking, reading and writing. It emphasizes expansion of structure, acquisition of vocabulary, and developing listening comprehension skills. Spanish is the language of the classroom. The student must be able to use the language in a meaningful context. Course content and activities include:

Structure: the present, preterite, imperfect, progressive tenses, present perfect and pluperfect tenses of the indicative; reflexive verbs; formal and familiar commands; uses of the infinitive; direct and indirect object pronouns; prepositional pronouns; demonstratives; possessives; comparisons of equality and inequality.

Vocabulary: presented by the text and handouts used.

Listening Comprehension: Students will demonstrate understanding of spoken Spanish by responding appropriately to situations posed by audio selections.

Speaking: teachers direct conversation to ensure correct grammatical habits. Writing: short compositions on general topics.

Selected readings: as appropriate. Spanish films: as appropriate and available.

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