

## ***Classical & Modern Languages***

### ***French 1***

Students will immediately start speaking French using simple phrases. Activities include reading a wide variety of materials, watching films, and audio and video activities. The course also stresses reading, writing, and listening skills, along with various lessons and activities on the culture, art and history of France and francophone countries. The yearlong course covers basic grammar. (NCAA Approved)

### ***Honors French 2***

This yearlong course is a direct continuation of French 1. It is designed to further increase speaking skills through dialogues and situational activities and comprehension of spoken and written French through a wider acquisition of vocabulary and an in-depth understanding of intermediate grammar. This course emphasizes the four main parts of a language: speaking, listening, reading, and writing. Further cultural activities include several French films and web-based research. Prerequisite: French 1. (NCAA Approved)

### ***Honors French 3***

This yearlong course stresses communication skills and fluency through speaking, listening, reading and writing. The student will cover advanced grammar in depth, while increasing vocabulary. Activities include contemporary situational exchanges, reading a wide variety of materials, watching films and audio activities. This class is an AP exam preparatory. Prerequisite: A recommended grade of "B" or higher in Honors French 2. (NCAA Approved)

### ***French 3***

This yearlong course provides a continuation of French II. Basic grammar concepts are reviewed, complex grammar structures are introduced, and students strengthen their knowledge of thematic vocabulary and related idiomatic expressions. Students develop more advanced proficiency in all five goals of foreign language learning (communications, cultures, communities, comparisons and connections), and an appreciation of the treasures of French civilization continues to be fostered through important historical events, landmarks and figures. A level 3 textbook is used, and is a continuation of the textbook used in French 2. (NCAA Approved)

### ***French 4: Civilization & Culture***

French 4: Civilization and Culture is a fourth year, yearlong course that offers an in-depth and rigorous study of French and Francophone cultures and influences in the world, past and present. History, geography, ancient and modern cultures will be appreciated within various contexts such as politics, art, literature, customs and understanding of the world as it was and is. Knowledge of level 3 French, vocabulary and grammar, as well as intermediate

reading skills are required. Needed skills will be developed in the process of this course, such as contextual grammar, structure and vocabulary. Students will take a comprehensive test at the conclusion of the course. Prerequisite: Completion of Honors French 3. (NCAA Approved)

### ***AP French Language***

This advanced, yearlong course will prepare students for the AP exam. Students will continue to develop and review advanced grammar, vocabulary and idioms. Activities include reading and comprehension, grammatical analysis of sentences, application of expressions and guided oral practices. An optional exam is available in the spring. Prerequisite: A recommended grade of "B" or higher in Honors French 3. (NCAA Approved)

### ***Ancient Greek 1***

Ancient Greek is a beginning language course which teaches the language mainly through reading in the target language. Students will read Greek for comprehension, translate from Greek into English and vice-versa, memorize and use vocabulary, study the origin of English words derived from Greek, and learn about ancient Greek culture and history. To be eligible for the course, students must first have completed their two-year world language requirement in Latin, French, Spanish or Mandarin. (1 credit)

### ***Latin 1***

This is a yearlong, beginning course that teaches Classical Latin through reading. Students engage in the following activities: reading Latin silently and aloud, translating Latin sentences and vice-versa, memorizing and using vocabulary, developing listening skills, studying the origin of English words derived from Latin and learning about Roman daily life and the history of the Roman Empire. (NCAA Approved)

### ***Honors Latin 2***

Honors Latin 2 follows Latin 1 as a thorough study of the Latin language. By the end of the yearlong course, the student will have been introduced to all major syntactical forms, will have further explored the culture of the ancient Romans, and will begin to read different genres of Latin literature such as history and comedy. Prerequisite: Latin 1. (NCAA Approved)

### ***Honors Latin 3***

Honors Latin 3 reviews and completes the grammar and more sophisticated syntax learned in the preceding two years, as well as further explores different genres of Roman literature. The historical context of these writings will be of significant importance. The college level of this yearlong course involves a greater proficiency with the language without great dependency on a dictionary or grammar reference. Prerequisites: Grade of "C" or higher in Honors Latin 2. (NCAA Approved)

### ***AP Latin***

This yearlong course is designed to prepare the student to translate and understand major sections of Vergil's Aeneid. By supplementing the translation and reading with additional readings in the epic genre as well as historical background of the author, the student will gain understanding of both the time period and importance of the work in its epic context. Spring AP exam is an option. Prerequisites: Grade of "B" or higher in Honors Latin 3 and teacher recommendation. (NCAA Approved)

### ***Mandarin 1***

This yearlong course will not only offer language lessons in Mandarin Chinese--a powerful economic language of the future--but also offers a cultural education. The native language instructor, with extensive experience in teaching Mandarin Chinese, will prepare students for more in-depth study of this and other world languages and contribute to the student's greater knowledge of his or her own language, understanding of cross-cultural communication, and interest in issues here and abroad. Open to juniors and seniors who have completed their Classical & Modern Language requirement for graduation, or freshman and sophomores with permission from the Academic Assistant Principal. (NCAA Approved)

### ***Mandarin 2***

This yearlong course is a continuation of Mandarin 1. It is open to students who have completed Mandarin 1 or an equivalent level. Mandarin 2 students will increase their skills to write essays, read short articles, engage in more complex conversations and be able to understand detailed presentations. The native language instructor, with extensive experience in teaching Mandarin Chinese, will prepare students for continued in-depth study of this world language culture. Open to sophomores, juniors and seniors in compliance with Classical & Modern Language requirement for graduation, or freshman who have taken the placement test. (NCAA Approved)

### ***Mandarin 3***

This yearlong course is a continuation of Mandarin 2. It is open to students who have completed Mandarin 2 or an equivalent level. Mandarin 3 students will increase their skills to write essays, read articles, engage in more complex conversations, and understand detailed presentations. Open to juniors and seniors in compliance with Classical & Modern Language requirements for graduation, or to freshmen who have taken the placement test. (NCAA Approved)

### ***Mandarin 4***

This yearlong course provides a fourth level Mandarin Chinese class on a non-AP track, which is designed to further develop proficiency skills (interpretive, interpersonal, presentational) through a

theme-based learning content. Students review basic and complex grammar concepts in speaking, reading, and writing. This course also focuses on improving reading comprehension and writing skills. New reading and writing techniques are taught through a variety of learning materials and practices (e.g., classic and modern literature, four main types of writing; narrative, expository, persuasive, and descriptive).

### ***AP Chinese Language & Culture***

The AP Chinese program at RJHS offers high school students an opportunity to learn college level Chinese language and culture. Students who take the AP Chinese exam may earn college credit for Chinese courses. The prerequisite for AP Chinese Language & Culture is the successful completion of the "Discovering Chinese" textbook in four volumes with a grade of B or higher. In this yearlong course, students will intensively practice Chinese in three modes: interpersonal, interpretive, and presentational. In addition, they will develop Chinese language skills in the five goal areas: communicative, cultures, connections, comparisons, and communities. Students will strive to speak Chinese with a higher level of fluency. They will read articles and write essays in Chinese, while becoming familiar with the Chinese culture. (NCAA Approved)

### ***Spanish 1***

Students will immediately start speaking Spanish using simple phrases and sentences. This yearlong course will stress reading, writing, and listening skills. The students will also be introduced to the customs of the culture. The learning of vocabulary and grammar and grammar usage is extensive. (NCAA Approved)

### ***Honors Spanish 2***

This intensive yearlong course is designed to increase the vocabulary and grammar. This course emphasizes further speaking, reading, and writing practice. By the end of the course, students will be exposed to all major grammatical concepts and ready to start the Honors Spanish 3 course. The student will discover Latin American culture through articles, stories, and films. Prerequisites: "A" or "B" in Spanish 1 and teacher recommendation. (NCAA Approved)

### ***Spanish 2***

This yearlong course is designed to increase the vocabulary and grammar of spoken Spanish. This course emphasizes further speaking, reading, and writing practice. The student will discover Latin American culture through articles, stories, and films. Prerequisite: Spanish 1. (NCAA Approved)

### ***Honors Spanish 3***

Honors Spanish 3 continues to teach the four main elements of language: speaking, listening, reading and writing. The student will review Spanish

grammar and learn the subjunctive mood in this yearlong course. The students will also begin to study Spanish literature and discuss contemporary topics. Prerequisites: Honors Spanish 2 or Spanish 3. "A" or "B" in prerequisite courses or teacher recommendation. (NCAA Approved)

### ***Spanish 3***

Spanish 3 continues to teach the four main elements of language: writing, reading, speaking and listening. In this yearlong course, the student will accomplish these skills in part by a review of Spanish grammar and by learning new grammatical structures. Prerequisite: A recommended grade of "C" or higher in Spanish 2. (NCAA Approved)

### ***Spanish 4***

This yearlong course provides a 4th and final level Spanish class. Basic and complex grammar concepts are reviewed. Students continue to develop proficiency in the four communicative skills. Activities include the use of skits, presentations, music, conversation, mass media and audio activities. Spanish and Latin American culture are discovered through texts, videos, visual aids and projects. This class will use *Asi se Dice 4* and its accompanying materials, as well as supplementary materials provided by the teacher. (NCAA Approved)

### ***Spanish: Civilization & Culture***

This yearlong course provides the student with a culminating experience to their Spanish studies. It is a vigorous fourth year level taught entirely in Spanish. Students will engage in conversational situations that are current and life skills oriented. They will also analyze and discuss the history, current events, literature, art and film of the Spanish-speaking world. This is a full year course that addresses both conversation and culture with an emphasis on improved speaking skills. Prerequisites: Spanish 3 or Honors Spanish 3. (NCAA Approved)

### ***AP Spanish Language & Culture***

This yearlong course, taught in Spanish, centers on preparing students to take the AP Spanish Language and Culture exam. Students will review grammar outside of class (from a text written in Spanish). In class, students will discuss literature (read outside of class) write forty-five minute compositions, give oral presentations, be exposed to samples of a variety of media in the target language, record dialogues, and practice listening and reading skills. It is important that the student taking AP Spanish Language and Culture is detail-oriented, willing to learn an extensive amount of vocabulary and grammar concepts outside of class, and willing to speak entirely in Spanish. It is also important that students limit other AP classes when taking AP Spanish Language and Culture. The spring AP exam is strongly encouraged. This course is intended for students performing at an advanced level (grade of "B" or higher) and entering from Honors Spanish 3. (NCAA Approved)

### ***AP Spanish Literature & Culture***

The AP Spanish Literature and Culture course is designed to provide students with a learning experience equivalent to that of a third-year college course in Peninsular and Latin American Literature, and introduces students to the formal study of Peninsular and Latin American literary texts. The AP Spanish Literature and Culture course is yearlong and is focused on preparing students fully to take the AP Spanish Literature and Culture exam offered by the college board at the end of the year. Therefore, it is expected that students will be taking the exam in May when offered. Prerequisite: AP Spanish Language and Culture. (NCAA Approved)

### ***English***

#### ***Honors English 1***

In this yearlong course, students will exercise writing skills with a focus on grammar, vocabulary, writing mechanics, and composition. Additionally, students will develop critical reading skills through close textual reading in a variety of literary genres. (NCAA Approved)

#### ***English 1***

In this yearlong course, students will build a firm foundation in writing skills through a focus on grammar, vocabulary and writing mechanics. Additionally, students will engage in a close study of a variety of literary genres. An honors section is available. (NCAA Approved)

#### ***Honors English 2***

This course surveys prominent historical facts, prevailing philosophies and literary trends found in the development of British literature from Beowulf to the present. Selected works of poetry, drama, non-fiction and fiction introduce students to major British writers. This course also presents other outstanding writers from other cultures. Writing assignments include essays of literary analysis. This course also concentrates on composition, with a major portion of the writing assessment based on the construction of a research paper. Despite the challenge of the often archaic material, students will be expected to take ownership of their reading, demonstrating their understanding in online discussion boards, class discussions, and seminars.

#### ***English 2***

This full-year course surveys prominent historical facts, prevailing philosophies and literary trends found in the development of British literature from Beowulf to the present. Selected works of poetry, drama, non-fiction and fiction introduce students to major British writers. This course also presents other outstanding writers from other cultures. Writing assignments include essays of literary analysis. This course also concentrates on composition, with a major portion of the writing assessment based on the construction of a research paper.

### ***AP English Language & Composition***

This full year course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Students choosing AP Language and Composition should be interested in studying and writing various kinds of analytical or persuasive essays on both literary and non-literary topics. The course is taught in tandem with American Literature. (NCAA Approved)

### ***American Literature***

American Literature will introduce students to representative American Literature (fiction, non-fiction, poetry, drama) from the colonial period to contemporary times. In this yearlong course, students will focus on the elements of literary analysis, improving vocabulary and writing skills, and relating literature to life experiences. (NCAA Approved)

### ***AP English Literature***

This is a full year, college credit course in college composition and literary analysis. It involves extensive reading, discussion, and critical writing about major works of American and British literature. Students are strongly encouraged to take the AP exam. (NCAA Approved)

### ***Journalism***

This semester course introduces students to the world of print and online media, video, and broadcast. The history of journalism, law, ethics, news literacy and Internet and social media responsibility, including 21st media convergence and civic duty to identify and analyze what is fair, balanced and true, will complement the major units of study: reporting, writing, editing, photography, videography, multimedia production and publishing, and design. Students will have the opportunity to use state-of-the-art software for graphic design, photography, magazine publishing and video production tools. During this semester course students will work as reporters on staff to support the student-run news magazine, the broadcasting program, and RJ Radio podcasting. Open to all grade levels. (NCAA Approved)

### ***Advanced Journalism***

This semester course offers students the opportunity to be part of a real world, student-run newsroom that produces content for the student news magazine, online student site, RJ Radio, and the student-run broadcast network. Students will coordinate efforts to organize, edit, design and produce news, feature, and opinion packages. Students will also become responsible and proficient in their use of social media and their civic duty to identify and analyze fair, balanced and true information. They will learn and practice advanced reporting, writing, editing, photography, design, and multimedia production. Students may specialize in specific areas as managers or editors. Media literacy, law, ethics, and

professional and ethical presentation and communication, will be cornerstones of study. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors, and Seniors. (NCAA Approved)

### ***Advanced Journalism 2***

In this full-year course students will be the lead editors and producers on the RJ Media team. They will run the real-world, student-run newsroom that produces content for the student news magazine, online student site, RJ Radio, and broadcast network. Students will coordinate efforts to organize, edit, design and produce news, feature, and opinion packages. Students will also become responsible and proficient in their use of social media and their civic duty to identify and analyze fair, balanced and true information. Students will specialize and achieve mastery in specific areas as managers or editors in their field of choice. Media literacy, law, ethics, and professional and ethical presentation and communication, will be cornerstones of study. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors, and Seniors.

### ***RJ Sports Network: Media Production***

The goal of RJ Sports Network is to highlight our student-athletes through multimedia production, including live event broadcasts, feature and graphic packages, highlights, and studio shows. Students in this semester course will also work on print and radio stories. Students will work as an ESPN-style sports media team to create, package, publish and promote content to the wider community. They will gain practical experience in collaboration, decision-making, communication and production using state-of-the-art production technology and an understanding of audience, culture, and storytelling. Open to sophomores, juniors and seniors.

### ***RJ Sports Network 2: Advanced Media Production***

In this full-year course, students will be the lead producers and directors for RJ Sports Network, a program that highlights our student-athletes through multimedia production, including live event broadcasts, feature and graphic packages, highlights, and studio shows. Students in the course will also work on print and radio stories. Students will work as an ESPN-style sports media team to create, package, publish and promote content to the wider community. RJ Sports Network 2 students will specialize in specific areas of focus and demonstrate mastery through presentation of a Colorado Student Media portfolio. Areas of specialization include: commentary, graphics and multimedia design, research and writing, on-camera personality, and production manager. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors and Seniors.

### ***SrEng Analysis of Literature & Film***

Through careful reading of selected literary works, writing about these works and viewing the films based on these works, students study, in this semester course, the relationship between the written and filmed interpretations. Exploring the differences challenges students to understand the moral and social implications of each version. (NCAA Approved)

### ***SrEng Detective Fiction Genre & Archetypes***

This semester course will expose students to the history of detective fiction in the Western prose tradition. This course aims to develop critical reading and writing skills with an emphasis on elements of fiction such as setting, character, plot and point of view. Students will analyze a variety of works by American and world authors. (NCAA Approved)

### ***SrEng Shakespeare and His Stage***

During this semester-long course, students will study several Shakespeare plays. The curriculum will include film studies, analysis of various monologues, on-stage performances, and a history of Renaissance theatre and the Bard. Students will also write critically about the plays we read as they develop their skills in literary analysis, writing mechanics and literary critique. The course will culminate with a group project that includes an in-depth analysis of a play of their choice and a performed adaptation of an entire scene. This course is offered as a co-enrolled course for seniors in both divisions and fulfills one semester of their full-year requirement in English. Juniors may take this class if approved by counselors and will count toward a general elective credit.

### ***SrEng Perspectives of War in Literature***

Students will examine, discuss and respond to works of literature that interpret the experience of war and its consequences. In this semester course, students look at conflicts from the early 1900's to the 2000's and study how the literature from those wars depict the best and worst human behavior under the most extreme conditions. This course will allow students to read a variety of genres such as: poetry, fiction, non-fiction and a graphic novel. The readings include works from the soldier's perspective as well as from the civilian's perspective. (NCAA Approved)

### ***SrEng Religious Literature***

This semester course is designed to expose students to a survey of religious themes emerging in literature beginning with the Renaissance in Europe and extending into contemporary world views of religion. In conjunction with the ideals of Jesuit education, students will explore the tenets of religion as discussed through various works of literature while analyzing literary techniques and developing critical analysis writing skills. Throughout this course, students will be exposed to a variety of

literary forms such as the epic, lyric poetry, drama and the novel, so as to stress the importance of various modes of expression and learning. Students will also discuss the relevance of the works studied to their own understanding of religious faith. (NCAA Approved)

### ***SrEng African-American Literature***

This is a semester course in which we will survey a very large temporal area, from the late-18th century to the present, a scope that will give you a broad sweep of the African American literary landscape, and in a variety of genres. We will read these texts not only within race-specific contexts, but also-and perhaps more importantly-as American literature. The objectives of this course are to give students an introduction to the vast array of prose, poetry, and drama that make up much of African American literature; to provide the opportunity to explore the diverse nature of this literature; to help students develop a deeper understanding of the ever-evolving issues involved in defining the American literary canon; and to encourage the reading of literature with a fine critical understanding and aesthetic appreciation. (NCAA Approved)

### ***SrEng Composition; Sustainability, Food & Culture***

This semester course will explore food and food justice while asking students to become better writers in a variety of mediums. In responding to critical issues about food and sustainability (How does food make it to the table? How do we navigate a food system that is often unjust? What environmental responsibilities do I have in my food choices?), students will practice writing in different genres beyond the literary essay. Through personal narrative, argumentative essays, short stories, blog posts, social media, and other formats, students will hone their writing skills and personal voice. Students will be encouraged to consider their own experience with food through their family history, will be challenged to think about issues regarding the ethics of food, and will be encouraged to think deeply about their role as writers in responding to these questions. (NCAA Approved)

### ***US History & US Literature***

Using an integrated and team-taught approach, students will learn the literature and history of the United States. The course surveys prominent historical facts, prevailing philosophies and historical trends, as well as social, economic, and political developments. Literary selections will show the integration of these trends and developments and their expression of the spirit of America. Students enrolled in this course, and in good standing at Regis Jesuit, who have a strong interest in participating in a Close Up Washington D.C. trip over Spring Break, may apply to the Social Studies Department Chair to be included. Students must provide a letter of recommendation from current teachers. The trip will provide opportunities to meet people, see places and gain firsthand experience observing the processes of

our national government. This yearlong course is only open to juniors. (NCAA Approved)

## ***Fine Arts & Media Technology***

### ***Fine Art 1***

Students are introduced to the basic elements and principles of art through hands-on experience. Areas of study include portraiture, figure drawing, contour, design, composition, and art appreciation. Art mediums include pencil, color pencil, pen and ink, etc. This semester course is open to all grades.

### ***Fine Art 2***

This semester course is a continuation of Fine Art 1 and is a more in-depth study of artistic styles and techniques. Studio work will cover color pencil drawings, watercolor, acrylic or oil painting and art appreciation. Prerequisite: Fine Art 1.

### ***Sculptural Explorations***

This art class will explore crafts from ancient to contemporary times and offers students an opportunity to discover their own creativity while exploring the elements of design: line, shape, form, texture, value, color, and space. Paper, calligraphy, fiber arts and jewelry making are some of the possible areas covered in this course. This semester course is open to students in grades 10-12.

### ***Ceramics 1***

This semester course covers the basic techniques for working, firing, and decorating ceramics, and lays the necessary foundations for exploring its many possibilities. The course is carried out through practical experience into the initial stages-properties and preparation of the clay, hand-building techniques (modeling, slab, coil etc.), characteristics and application of color (engobes, oxides, glazes) and an introduction to various firing techniques. Open to sophomores, juniors and seniors only.

### ***Ceramics 2***

Through a series of guided practical lessons, the initial stages of throwing will be taught on how to create functional pottery using the pottery wheel. Students will learn to throw on a pottery wheel and learn how to throw cylinders, mugs, bowls, plates, teapots, etc. During the semester course, students will also learn how to finish off pieces by the use of additional hand-building techniques or use of moulds. They will also work on 3 dimensional sculptures using clay. Prerequisite: Ceramics 1. This course is open to sophomores, juniors and seniors.

### ***Ceramics 3***

This semester course is designed for students that have completed Ceramics 1 and 2 and are interested in continuing with clay. Both hand building and the wheel will be emphasized. Students will play an active role in designing their individualized plan for

their coursework for the duration of the class. They will explore an area of interest, both in concept and technique. Students will do research in their area of interest and create sketches and written proposals of their projects. Students are to take responsibility for their learning and growth with each project proposals, building on the previous one. There will be class presentations and critiques.

### ***AP Studio Art Drawing***

This full year course is designed for the serious artist interested in creating a portfolio for submission to the College Board for Drawing. Students will be working on drawing, painting, mixed media etc. and will need to demonstrate excellence in a broad range of media and techniques. Students will develop their portfolios by creating twelve differing pieces that explore the various elements and principles of design for the Breadth section of the portfolio, and twelve thematically unified pieces that interpret the elements of Art from a personal perspective for the Concentration section of the portfolio. Students work at a college level and are expected to work on their art in class and at home to complete the required pieces for the portfolio. Prerequisite: Fine Art 2. This course is open to juniors and seniors.

### ***AP Studio Art 2-D***

This full year course is designed for the serious artist interested in creating a portfolio for submission to the College Board for 2-D Design. Students will work with traditional art media to explore design problems and will need to demonstrate excellence in a broad range of media and techniques. Students will develop their portfolios by creating twelve differing pieces that explore the various elements and principles of design for the Breadth section of the portfolio, and twelve thematically unified pieces that interpret the elements of Art from a personal perspective for the Concentration section of the portfolio. Students work at a college level and are expected to work on their art in class and at home to complete the required pieces for the portfolio. Prerequisite: Fine Art 2. This course is open to juniors and seniors.

### ***Technology for Communication***

In this semester-long course, students will discover the fundamentals of technology in a practical, lab-based environment. Complex software programs will be introduced with the intention of developing the confidence necessary to master new technology. Students will have opportunities to be very creative while working collaboratively on real-world communication campaigns. Basic programming is studied through Microsoft Excel and writing HTML from scratch. Creative and design programs introduced include software from the Adobe Creative Suite, Audacity, and PTC Creo. No technology background or prerequisite course is required. This course is open to grades 9-12.

### ***Computer Programming 1***

This semester course is an introduction to computer programming using the Java programming language.

The course introduces computer-program design using the concepts of structured programming and logic, including pseudocode, flowcharts, and algorithms. Variables, data types, control structures, looping, methods, graphics, classes and libraries will be explored. Students conclude the class by designing video games using Stanford University's ACM Java libraries. This course is open to grades 9-12.

### ***Computer Programming 2***

This semester course is an extension of Computer Programming 1. Students study Object Oriented Programming techniques in the context of the Java programming language. The semester concludes with large-scale projects designed by the students. This course is combined with Computer Programming 1 and is delivered in a hybrid online course format. Prerequisite: Computer Programming 1 or instructor approval.

### ***AP Computer Science Programming***

In this year-long course, students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science Programming teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. This course will prepare students for the end-of-course AP Computer Science A Exam and is open to grades 11-12.

### ***Animation***

This semester course is designed to familiarize students with the creation of animations and cartoons by providing an overview of Disney's Twelve Basic Principles of Animation techniques. The class also introduces students to the fundamentals of creating 2D computer animations using Adobe Animate, including tweening and frame-by-frame drawn animations. The course concludes with the creation of final projects in which students develop and create an animated short. This course is open to grades 9-12.

### ***Architecture***

This semester course introduces students to architecture and computer aided design. Using Chief Architect, students will develop custom homes, multifamily housing and commercial buildings. Students will explore aspects of architecture from historical, artistic and functional contexts with an emphasis on spatial design, ordering principles and fundamental architectural elements. In addition, this course will familiarize students with marketing and real estate principles as students analyze projects in real-world contexts. No prerequisites are required. This course is open to sophomores, juniors and seniors.

### ***Computer Graphics Illustrator***

Building on their knowledge of the basic principles and elements of design, students will use the computer as an artistic medium. In this semester course, students will produce original imagery and creatively alter preexisting images using Adobe Illustrator. Prerequisite: Fine Art 1.

### ***Computer Graphics Photoshop***

This class advances the student's understanding of art and design in digital image editing. Students will pursue their creative process using Adobe Photoshop. Original photography is required; use of a digital camera is recommended. Prerequisite: Fine Art 1. This semester course is open to grades 10-12.

### ***AP Computer Science Principles***

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. This is a full year course open to all students in grades 10 through 12. (NCAA Approved)

### ***Video Production 1***

Students will produce effective communication through the study and practice of scripting, camera operation, audio production, lighting, and editing using Final CutPro. This semester course is open to juniors and seniors. Sophomores must get prior approval from Fine Arts Department Chair.

### ***Video Production 2***

This semester course will allow students to expand their knowledge of Final Cut Pro, Sound Track, Live Type, and Motion. Students will deepen their understanding of advanced filmmaking and apply techniques gleaned from their study of diverse directors. Through pre and post production, students will be in charge of the creative process. Prerequisite: Video Production 1. Open to juniors and seniors.

### ***Broadcast Journalism: RJTV***

This semester course introduces students to video storytelling, digital reporting and broadcast television. As members of RJTV, students will synthesize the various aspects of television production and formally present a mastery of the medium. News literacy, news values and the social role of media will be examined and used as the students make content decisions. RJTV gives students the real-time experience of a deadline-driven television newsroom. Students rotate through

newsroom jobs such as director, switch operator, editor, writer, producer, anchor, reporter and videographer. Students learn to write news and feature scripts, shoot and edit video to tell a story, organize and produce a newscast, work together as a broadcast news team to air live and taped broadcasts to the community. Students may take this course more than once for credit with instructor approval. Open to all grade levels.

### ***Journalism***

This semester course introduces students to the world of print and online media, video, and broadcast. The history of journalism, law, ethics, news literacy and Internet and social media responsibility, including 21st media convergence and civic duty to identify and analyze what is fair, balanced and true, will complement the major units of study: reporting, writing, editing, photography, videography, multimedia production and publishing, and design. Students will have the opportunity to use state-of-the-art software for graphic design, photography, magazine publishing and video production tools. During this semester course students will work as reporters on staff to support the student-run news magazine, the broadcasting program, and RJ Radio podcasting. Open to all grade levels. (NCAA Approved)

### ***Advanced Journalism***

This semester course offers students the opportunity to be part of a real world, student-run newsroom that produces content for the student news magazine, online student site, RJ Radio, and the student-run broadcast network. Students will coordinate efforts to organize, edit, design and produce news, feature, and opinion packages. Students will also become responsible and proficient in their use of social media and their civic duty to identify and analyze fair, balanced and true information. They will learn and practice advanced reporting, writing, editing, photography, design, and multimedia production. Students may specialize in specific areas as managers or editors. Media literacy, law, ethics, and professional and ethical presentation and communication, will be cornerstones of study. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors, and Seniors. (NCAA Approved)

### ***Advanced Journalism 2***

In this full-year course students will be the lead editors and producers on the RJ Media team. They will run the real-world, student-run newsroom that produces content for the student news magazine, online student site, RJ Radio, and broadcast network. Students will coordinate efforts to organize, edit, design and produce news, feature, and opinion packages. Students will also become responsible and proficient in their use of social media and their civic duty to identify and analyze fair, balanced and true information. Students will specialize and achieve mastery in specific areas as managers or editors in their field of choice. Media literacy, law, ethics, and professional and ethical presentation and

communication, will be cornerstones of study. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors, and Seniors.

### ***RJ Sports Network: Media Production***

The goal of RJ Sports Network is to highlight our student-athletes through multimedia production, including live event broadcasts, feature and graphic packages, highlights, and studio shows. Students in this semester course will also work on print and radio stories. Students will work as an ESPN-style sports media team to create, package, publish and promote content to the wider community. They will gain practical experience in collaboration, decision-making, communication and production using state-of-the-art production technology and an understanding of audience, culture, and storytelling. Open to sophomores, juniors and seniors.

### ***RJ Sports Network 2: Advanced Media Production***

In this full-year course, students will be the lead producers and directors for RJ Sports Network, a program that highlights our student-athletes through multimedia production, including live event broadcasts, feature and graphic packages, highlights, and studio shows. Students in the course will also work on print and radio stories. Students will work as an ESPN-style sports media team to create, package, publish and promote content to the wider community. RJ Sports Network 2 students will specialize in specific areas of focus and demonstrate mastery through presentation of a Colorado Student Media portfolio. Areas of specialization include: commentary, graphics and multimedia design, research and writing, on-camera personality, and production manager. Students may take this course more than once for credit with instructor approval. Open to Sophomores, Juniors and Seniors.

### ***Yearbook***

The yearbook class involves the production of the annual Raider yearbook. Students will write and edit articles, create layouts, take photographs and submit yearbook pages using the latest publication software and technology. Students may take this full year course more than once for credit with instructor approval only. This course is open to grades 10-12.

## ***Health & Physical Education***

### ***Team Sports***

This semester course is designed for the student who wants to improve his knowledge and skills involving team sports. The student will gain basic knowledge about the rules and basic skills of popular team sports including soccer, flag football, softball, basketball, volleyball and floor hockey. There will be a fitness component that will include the development, implementation and monitoring of a personal fitness plan. This course is an elective open to freshmen and sophomores only.

### ***Health***

Freshman Health seeks to inform the students about the impact their daily choices have on their bodies and on the community around them. We will study the issues of honesty, violence, personal health and hygiene, basic sexuality, and living in community in order to help our students continue to develop their character and personal integrity. The semester class will draw upon the sciences (biological and psychological) as well as the reflective experience of our faculty as we seek to help our students carefully consider what type of person they are and what type of person Regis Jesuit challenges them to be over the course of their four years here, and in their life beyond Regis Jesuit.

### ***Beginning Ballroom Dance***

Beginning Ballroom Dance is a co-enrolled semester course that explores the world of ballroom dance. Students will learn basic ballroom dances from varying cultures in a respectful environment. This course focuses on partnering techniques, body alignment, rhythm, discipline, and basic knowledge of ballroom dance. This course is open to juniors and seniors.

### ***Weightlifting***

This semester course is designed for the student who wants to improve his fitness level, as well as increase his strength and flexibility. The class activities will include weightlifting, stretching, plyometrics and agility drills. The student will be required to develop and monitor his individual weightlifting program. Each lifting program can be designed to be sport specific. The student will also gain an understanding of basic exercise physiology principles and basic anatomy as it applies to the skeletomuscular system. A student may take this semester course twice for credit, but not in the same school year. In order to receive FULL points, the student must be prepared to come in one extra session a week (if they have the class three days that week) and two sessions/week (when they only have class two days that week). Therefore, FOUR lifts/week is considered full class participation. Open to all grade levels.

### ***Racquet Sports***

This course is for the student who wants to improve his knowledge and skills involving racquet sports. The student will gain basic knowledge about the rules and skills of racquetball, tennis and badminton. The student will be required to develop, implement and monitor a personal fitness plan. Some activities will require an additional course fee and travel off campus. A student may take this semester course twice for credit, but not in the same school year. Open to juniors and seniors.

### ***Individual Lifetime Sports***

This course is designed for the student who wants to improve his knowledge and skills in individual activities recognized as lifelong sports including golf, bowling, archery, billiards and cycling. The

student will be required to develop, implement and monitor a personal fitness plan. Activities will require additional course fees and travel off campus. A student may take this semester course twice for credit, but not in the same school year. Course is open to juniors and seniors.

### ***Aquatic Sports***

This course is designed for the student who enjoys the aquatic environment. Sports covered will be water polo, water basketball, water volleyball, snorkeling and Cardio-Pulmonary Resuscitation (CPR). The basic swimming strokes: crawl, breast, side and back will be covered during the fitness part of the class. Students will be required to develop, implement and monitor a personal fitness plan. Classes will be held in the Regis Jesuit High School pool. A student may take this semester course twice for credit, but not in the same school year. The course is open to sophomores, juniors and seniors.

### ***Mind/Body***

This course is designed to introduce students to a method of exercise and overall physical and mental health. This course will consist mainly of guided practice starting at basic levels and progressing to more advanced sequences as students progress. A student may take this semester course twice for credit, but not in the same school year. Open to sophomores, juniors and seniors.

### ***Spring Advanced Weightlifting 2***

This semester class is for students entering grades 9, 10 and 11 participating in football AND for all current sophomores and juniors. It requires a student to be familiar with exercises and movements from the Olympic lifts. It is based on the hallmark of Jesuit Education - cura personalis, the care and concern for the individual. Our instructors work to develop the knowledge and encourage the implementation of a healthy lifestyle as a student athlete. The course will emphasize the components of lifting, agility, nutrition, speed, core, and dynamic movements that are required for an athlete to participate at the 5A level. In order to receive FULL points, the student must be prepared to come in one extra session a week (if they have the class three days that week) and two sessions/week (when they only have class two days that week). Therefore, FOUR lifts/week is considered full class participation.

## ***Mathematics***

### ***Honors Algebra 1***

This yearlong course introduces concepts such as linear and quadratic equations, graphing, polynomials, factoring and problem solving. Students normally take this standard math course in the high school sequence. (NCAA Approved)

### ***Algebra 1***

This yearlong course introduces concepts such as linear and quadratic equations, graphing, polynomials, factoring and problem solving. Students normally take this standard math course in the high school sequence. An honors section is available for students with departmental approval. (NCAA Approved)

### ***Honors Geometry***

This yearlong course introduces students to geometry vocabulary, postulates, and theorems. In addition to the study of proofs, as applied to plane figures, symbolic logic is introduced. The curriculum includes a review of algebra and applications of algebra to analytic geometry. Prerequisite: Honors Algebra 1. (NCAA Approved)

### ***Geometry***

This yearlong course introduces students to geometry vocabulary, postulates, and theorems. In addition to the study of proofs, as applied to plane figures, symbolic logic is introduced. The curriculum includes a review of algebra and applications of algebra to analytic geometry. Honors sections are available for students with departmental approval. Prerequisite: Algebra 1. (NCAA Approved)

### ***Honors Algebra 2 / Trigonometry***

This yearlong course advances the students' algebraic skills by focusing on the conic graphs and polynomial graphs, logarithmic and exponential functions, as well as trigonometric functions. The topics prepare the student for Math Analysis or Introduction to Calculus. Prerequisite: Honors Geometry with a grade of "B" or higher. (NCAA Approved)

### ***Algebra 2***

This yearlong course advances the students' knowledge of algebraic concepts including functions, polynomials, rational expressions, systems of functions and inequalities, logarithmic and exponential functions, complex numbers, conic sections, determinants and matrices. Students will describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Emphasis will be placed on practical applications and modeling. Appropriate technology, from manipulatives to calculators and applications software, will be used regularly for instruction and assessment. Prerequisite: Geometry. (NCAA Approved)

### ***AP Calculus AB***

This yearlong course will provide a college level treatment of differential and integral calculus. Trigonometric, logarithmic and exponential functions will be explored. Problem solving skills in areas of exponential growth, related rates and maximum/minimums will be introduced. Spring AP

exam is an option. Prerequisite: Introduction to Calculus with a grade of "C" or higher. (NCAA Approved)

### ***AP Calculus BC***

In this yearlong course, AP Calculus BC, an extension of AP Calculus AB, teaches broad concepts and widely applicable methods. Faculty with manipulation and computational competence are important outcomes. Unifying the themes of derivatives, integrals, limits, approximation, application and modeling are emphasized. Spring AP exam is an option. Prerequisite: AP Calculus AB. (NCAA Approved)

### ***Honors PreCalculus***

This yearlong course provides knowledge of polynomial, rational, exponential, logarithmic, and trigonometric functions and their inverses. The course includes a graphical, analytical, verbal and numerical study of the functions, as well as applications involving limits, rates of change, and advanced functional analysis. This course will help students broaden their knowledge of and appreciation for theories and applications of mathematics and include studies of conics, probability, and parametric functions. It will also include an introduction to limits, derivatives and integrals in preparation for AP Calculus. There is a focus on the theories developed by mathematicians, theologians, philosophers and scientists of the ages. Prerequisites: Honors Algebra 2/Trigonometry or Trigonometry/Math Analysis with a grade of "C" or higher. (NCAA Approved)

### ***Calculus 3***

Calculus 3 is a full-year course in the calculus of functions of more than one variable. Students enrolling in Calculus 3 must have successfully completed a year in Calculus BC. The course is divided into two semesters, a semester studying Multivariable and Vector Calculus and a second semester in Differential Equations. (NCAA Approved)

### ***Applied Calculus***

This yearlong course is an alternative to AP Calculus AB. It is the equivalent to a first-year Calculus course for a math or science major at most colleges. Topics include analytic geometry, limits, continuity, differentiation and integration of polynomials, rational, logarithmic, exponential, and trigonometric functions in a single variable, application to maximum and minimum problems, and volume of a solid revolution. Prerequisite: Introduction to Calculus. (NCAA Approved)

### ***Finance & Accounting***

This semester course offers an introduction to basic personal and business financial concepts such as net worth, cash flow, budgets, time value of money, taxes, retirement planning, credit cards, mortgages, and life insurance to name a few. Students are expected to use their algebraic problem solving skills

to make sound financial decisions and interpretations from basic formulations and calculations. This course does not meet a graduation requirement for math. This course is open to juniors and seniors.

### ***AP Statistics***

Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections with actual events. Computers and calculators will allow students to focus deeply on the concepts involved in statistics. This yearlong course prepares students for the Advanced Placement Examination in Statistics. Prerequisite: Algebra 2 or Honors Algebra 2. (NCAA Approved)

### ***Trigonometry***

Trigonometry is a branch of mathematics that involves relationships of lengths and angles of triangles. This one semester course will include a thorough study of the unit circle, the six trigonometric functions and the related algebraic and geometric content. Content will include numerous applications which require the problem-solving power of trigonometry. Prerequisite: Algebra 2; this course is a prerequisite for future study of calculus. (NCAA Approved)

### ***Mathematical Analysis***

This is a semester course in which students will examine the behavior and characteristics of functions and relations and their graphs. Mathematical models and other applications are presented to showcase the relevance of algebra to daily life. Prerequisite: Algebra 2; this course is a prerequisite for future study of calculus. (NCAA Approved)

### ***Probability & Statistics***

This is a semester course offering a general overview of probability and statistical methods used in data organization, management and analysis. Topics include, but are not limited to, graphic and numeric data presentations, probability, distributions, sampling techniques, estimation, hypothesis testing and correlation. Prerequisite: Algebra 2. (NCAA Approved)

### ***Performing Arts***

#### ***Speech & Debate***

This semester course is designed for those interested in public speaking, debate, interpretation of literature, and/or overall improvement in speech delivery. Students will learn about appropriate vocal expression, physical language, and physical stature that apply to various speech forms. This course fulfills the Communications graduation requirement and is open to grades 9-12.

### ***Competitive Speech & Debate***

This semester long course is designed for the serious student who wants to be part of the Regis Jesuit Competitive Speech and Debate Team. Students will have the opportunity to explore the following areas: Drama, Humor, Poetry and Duo Interpretation of Literature, Original Oratory, Extemporaneous Speaking, Lincoln-Douglas Debate, Public Forum Debate, Student Congress, Impromptu Speaking and Creative Storytelling. Students will learn to compete at speech meets, become members of the National Forensic League (the National Honor Society for students of speech), and have the opportunity to letter in speech. Students will be required to compete in three (for a letter grade of C) to five (for a letter grade of A) Saturday speech meets during the class. The class is open to all grades and fulfills the Communications graduation requirement. (NCAA Approved)

### ***Interpersonal Communication***

In this semester course, students focus on the original language arts - speaking and listening - so that they better understand the dynamics of interpersonal communication in their lives. Students learn the proper techniques of public speaking and develop a foundation for becoming more comfortable speaking in front of an audience. This course fulfills the Communications graduation requirement and is open to Grades 9-12. (NCAA Approved)

### ***Theatre***

Students will study the history of the theatre as well as the practical and artistic aspects of the theatre by practicing the techniques of stage movement, pantomime, vocal expression, physical language, action and improvisation, and performing monologues and scenes from different plays. This semester course fulfills the Communications graduation requirement and is open to grades 9-12.

### ***Technical Theatre***

A semester, hands-on course to develop student leadership in the technical aspects of stagecraft. Students will learn theatre safety techniques while constructing, painting, and lighting the school Drama Productions. A major goal of this course is for students to demonstrate the ability to create and design future productions from script analysis and functionality of the arena theatre scenario. Students with previous experience in art or construction are encouraged to register; however, it is not required. This course is open to grades 10-12. Prerequisite: Theatre

### ***Acting***

This semester course includes advanced techniques of voice production, improvisation, scene study, and in depth character work. A formal study of the Method, and other techniques will be applied to Elizabethan and classic American Dramas. Classes will include video resource, exercise, recital, and

rehearsal for formal presentations. Directing styles and criticism skills will also be explored. Attendance at one professional theater production, along with a report, will be required. Students must be comfortable with being in front of an audience effectively. Students will produce a one act or full play for study of these techniques. A student may take this course twice for credit, but not in the same school year. This course is open to grades 10-12. Prerequisite: Theatre.

### ***Chorus***

This ensemble is open to all singers hoping to begin or expand upon their vocal talent. The members will be singing standard unison to three-part (TTB) vocal repertoire. Both secular and sacred music will be studied and sung in the appropriate styles. Proper singing technique and ensemble skills are emphasized. This semester course is open to grades 9-12.

### ***Introduction to Music***

Have you ever wondered how to play a musical instrument, but haven't had a chance to try? Drums, strings, brass, woodwinds...these instruments are all available to try in this course. You will get the chance to try out a number of instruments and focus on one to play in a class ensemble. No experience is necessary. You will learn to read music, count rhythms, understand how sound works, and even create your own instruments. This course is open to grades 9-12.

### ***Concert Band***

Intermediate to advanced wind, brass, and percussion players form this ensemble for a full year. The purpose of this group is to explore and interpret original concert band literature as well as transcriptions of Classical pieces. Students will be challenged to advance their own individual skills as well as learn the necessary ensemble skills. Public and in-school performances are a part of this course. Prerequisite: 3 years experience on instrument. No audition is required. Piano players with three years experience are welcome to play percussion. Concert Band will be co-enrolled. This yearlong course is open to grades 9-12.

### ***Beginning Guitar***

This is a one-semester course for beginning guitar players. Performance of various styles of guitar literature and transcriptions, combined with basic music theory, will increase the student's knowledge of music and appreciation of the effort and reward involved in playing an instrument. No prior musical experience is necessary. This course is open to grades 10-12.

### ***Beginning Piano***

This semester course is open to all students with no experience necessary. Students will learn the fundamentals of piano performance through exercises and performance pieces, drawing from

both traditional and modern repertoire. Students will learn how to read music in two clefs in standard notation as well as how to interpret chord symbols. Lastly, there will be opportunities for personal creative expression through composition and improvisation in a jazz setting. This course is open to grades 10-12.

### ***Advanced Guitar***

This semester course is open to intermediate guitarists. The course focuses on the performance of guitar ensemble pieces, drawing from classical, modern, rock, pop and jazz repertoire. Advanced guitar emphasizes an increased understanding of the fretboard through advanced scales and chord voicings. This course is open to sophomores, juniors and seniors. Prerequisites: Beginning Guitar or Audition.

### ***Advanced Jazz Ensemble***

This year long course is open to students with a previous knowledge of jazz, which they could have acquired through participation in Jazz Band in middle school or at Regis Jesuit by taking the course Jazz Band. Students will improve their abilities on their instrument through advanced study of jazz theory and an increased level of difficulty in performance pieces. They will also explore improvisation, soloing and "comping" in numerous styles and keys, as well as creating their own arrangements of jazz standards. Researching and studying original performers in jazz will develop a stronger background on which to base their performing abilities. An audition is required. This course is open to grades 9-12.

### ***Advanced Music Theory***

As a continuation of Music Theory and Composition, this semester course will further discuss advanced music theory concepts. Students will produce compositions using different styles and methods with notation software. Ear training will continue with melodic, harmonic and rhythmic dictation. Teacher permission is required in order to register for the class. Prerequisite: Music Theory with a grade of "A" or "B". This course is open to grades 11-12 only.

### ***Music Theory & Composition***

This semester course is designed for students with any level of musical training and performance who have an interest in learning more about the function, form, and composition of music. Exploration of the different theories, cultures and genres of musical composition will create a stronger knowledge and appreciation of music in an historical and personal aspect. This course is open to grades 9-12.

### ***Jazz Band***

This semester course explores the foundations of Jazz and improvisation through the performance of works from standard and modern jazz repertoire. It is for intermediate students who play saxophone,

trumpet, trombone, piano, bass, drums, or guitar. The Jazz Band provides musical performances at various school events as well as at the end of the semester concerts. A student may take this semester course more than once for credit, but not in the same school year. An audition is required. This course is open to grades 9-12.

### ***String Orchestra***

This yearlong course is open to intermediate and advanced violin, viola, cello, bass, and piano students. The String Orchestra performs collections from the Baroque, Classical, and Contemporary periods, as well as jazz and popular repertoire. Each member delves into music theory, technique, and collaborative performance. Prerequisite: 3 years experience on a string instrument. No audition required. String Orchestra will be co-enrolled. This course is open to grades 9-12.

### ***Vox Lucis***

This full year course gives its members the opportunity to improve their vocal talents, and gain a practical knowledge of music theory and history. Vox Lucis will provide multiple performance experiences, including fall and spring concerts, as well as performances outside the school community. A student may take this yearlong course more than once for credit. An audition is required. This course is open to grades 10-12.

## ***Science***

### ***Honors Biology***

This full year course is available to select freshmen and sophomores meeting departmental criteria. This course covers in depth the integration of the physical laws of the universe with living systems. The specific topics covered are biochemistry, cell structure and function, genetics, evolution, taxonomy and an overview of plant and animal phylogeny. The honors course has greater depth and teaches more problem solving skills. A good preparatory course for AP Biology. This course is available to students meeting departmental criteria. (NCAA Approved)

### ***Biology***

This full year course covers in depth the integration of the physical laws of the universe with living systems. The specific topics covered are biochemistry, cell structure and function, genetics, evolution, taxonomy, and an overview of plant and animal phylogeny. (NCAA Approved)

### ***AP Biology***

This full year course is equivalent to that of an introductory, college level Molecular and Cellular Biology course. Topics include: ecology, biochemistry, cellular structure and function, molecular genetics, evolution, taxonomy, mammalian anatomy and physiology, botany and ecology. Registration and completion of the spring

AP Exam is strongly recommended. Prerequisites: Grades of "A" or "B" in all attempted math and science courses. Successful completion of Biology or Honors Biology and Physics or Honors Physics or co-enrolled in Physics or Honors Physics. (NCAA Approved) Due to time constraints this course will include 3 modules culminating in online tests that students will complete on their own time through Canvas. The first of these, Ecology, is expected to be completed through the summer and will be due at the beginning of the second week of school. (NCAA Approved)

### ***Honors Chemistry***

This full year course content is more in depth and teaches good problem solving skills. Topics include; the study of matter, energy and their relationship, atomic and periodic structure, chemical names and formulas, chemical bonding, chemical reactions, mole relationships, stoichiometry, solutions, gas laws, thermodynamics, and organic chemistry. A good preparatory course for AP Chemistry. Prerequisite: Completion of Geometry or co-enrollment in Honors Geometry. (NCAA Approved)

### ***Chemistry***

This full year course covers the study of matter, energy, and their relationship. The specific topics are atomic and periodic structure, chemical names and formulas, chemical bonding, chemical reactions, mole relationships, stoichiometry, solutions, gas laws, equilibrium, thermodynamics, and acids and bases. Prerequisite: Algebra 1. (NCAA Approved)

### ***AP Chemistry***

This yearlong chemistry course is designed to be the equivalent of a general chemistry course taken during the first year of college. The course is structured around six big ideas; Structure of Matter, Properties of Matter, Chemical Reactions, Rates of Reactions, Thermodynamics and Equilibrium. An emphasis will be placed on science practices that combine content with inquiry and reasoning skills, including a significant lab experience. Due to time constraints, this course will include 2 modules that students will complete on their own time through Canvas. The first of these, Chemical Foundations, is expected to be completed through the summer and will be due at the beginning of the second week of school. This class will be open to juniors and seniors who have completed Honors Chemistry. Prerequisites: Grades of "A" or "B" in all attempted math and science courses with department approval. Registration and completion of the spring AP exam is strongly recommended. (NCAA Approved)

### ***Physics***

This is a full year course of introductory physics. The laws which govern matter and energy in our universe are explored. Areas of emphasis include mechanics, matter, sound, electricity, magnetism and optics. This course emphasizes the mathematical applications associated with each topic. Prerequisites: Completion of Chemistry and Algebra

2/Trig. or co-enrolled in Algebra 2/Trig. with grades of "C" or higher. (NCAA Approved)

### ***AP Physics 1***

An algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Honors Algebra 2/Trig is a prerequisite for this yearlong class. (NCAA Approved)

### ***AP Physics C***

AP Physics C is a yearlong course. It forms the first part of the college sequence of physics for students majoring in the physical sciences or engineering. The sequence is parallel to or preceded by mathematics courses that include Calculus and is more intensive and analytic than that in the B course. Strong emphasis is placed on solving a variety of challenging problems, some of which require Calculus. The subject matter of the C course is principally mechanics, electricity and magnetism. Prerequisites: Honors Physics and Introduction to Calculus. This course is open to juniors and seniors. (NCAA Approved)

### ***Anatomy & Physiology***

This semester course is designed to provide in-depth study of the structure and function of the human body from the molecular level through the systemic level. Various projects, interactive programs/labs, and cadaver study will enhance the experience of this class. Prerequisites: Chemistry or Honors Chemistry and Biology or Honors Biology. (NCAA Approved)

### ***Forensic Science***

Forensic Science is a lab-based Senior semester course that focuses on collecting and interpreting data including evidence that has been collected at a crime scene and on analyzing "popular" forensics from a scientific point of view. Students will be exposed to the history of forensics as well as the rules and laws relating to forensics evidence. An understanding of biology including DNA structure and its unique properties as well as organic chemistry including a basic knowledge of bonding, naming, and molecule structure is necessary to be successful in the course. Students will be required to read the novel "In Cold Blood." (NCAA Approved)

### ***Robotics 1***

The Robotics 1 course is a semester long course that introduces ideas of design and programming as well as physical science and physics principles through the use of the Lego EV3 Robotics kits. The course is designed around challenges that grow in complexity as the semester progresses. Each challenge would be met by having a working robot, a presentation to explain their design and solution to the challenge,

and a notebook of the work done in creating and testing the robot. This course is open to grades 10-12. (NCAA Approved)

### ***Robotics 2***

Robotics 2 will offer students a chance to program and build advanced robots to accomplish a variety of tasks. The focus of this semester course will be on the engineering design process as well as programming. Students will learn to code the robots using C and learn how to design robots in order to meet specified tasks throughout the course. By the end of the course, students will have a good knowledge of C programming and a thorough grasp of the engineering design process. (NCAA Approved)

### ***Scientific Principles of Athletic Training***

This semester course is designed to introduce students to the prevention, evaluation, treatment and rehabilitation of athletic injuries. Components of this course include medical terminology, skeletal and soft-tissue anatomy, mechanism of injury, specific orthopedic testing, components of fitness, hydration and nutrition, psychology of injury, and emergency procedures. Students in the class will participate in hands-on lab activities, anatomy study, American Red Cross CPR certification, and practical experiences of the field and in the Athletic Training Room, under the supervision of a Certified Athletic Trainer. This course is open to grades 10-12.

### ***Engineering Principles & Design***

In this semester course, students will develop and apply engineering design skills by engaging in independent and team-based research projects and various hands on challenges. Students will hone problem solving and critical thinking skills that will help them prepare for engineering at the university level and/or interdisciplinary collaborative problem solving. This course is open to juniors and seniors. (NCAA Approved)

### ***AP Environmental Science***

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas of study. The AP Environmental Science course is yearlong and is an excellent option for any interested student who has completed a year of biology and a year of chemistry. Because of the prerequisites, AP Environmental Science will usually be taken in either the junior or senior year. (NCAA Approved)

### ***AP Computer Science Principles***

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. This is a full year course open to all students in grades 10 through 12. (NCAA Approved)

### ***Social Studies***

#### ***Human Geography***

Human Geography is a required semester-long course for all ninth-grade students that will take students through a survey of physical geography, along with significant factors that impact human movement and diffusion. Students will explore the history, various cultures, and current events of major world cultures and religions through the use of maps, news articles, and other primary and secondary sources.

#### ***World History/Global Studies 2***

This course is required for first semester of sophomore year. The course is designed to continue helping students to improve their writing and analytical skills while also pursuing a thematic understanding of human societies and institutions that developed in different areas of the world during the medieval and early modern periods of history. (NCAA Approved)

#### ***World History/Global Studies 3***

This course is required for second semester of sophomore year. This course is designed to refine skills gained during the previous two segments, and culminates in preparation of an in-depth research paper relating to topics selected annually through the National History Day program. Using a comparative, global scope, the course content focuses on modern history approximately from the Age of Revolutions (political and industrial) to the present time. (NCAA Approved)

### ***AP World History***

AP World History uses a chronological perspective to develop greater understandings of global processes and human interaction. Students will gain important research and analytical skills and an ability to draw upon significant areas of factual knowledge about major civilizations, to construct reasoned arguments about continuity and change in the frameworks of society, as well as major themes and turning points in periods of human history. Students will be prepared for and encouraged to take the AP

World History examination, given annually in May. Because this yearlong course requires higher level reading comprehension and writing skills, and more independent and self-motivated study, it is open to sophomores who have been recommended to enroll in it by their ninth grade Social Studies teachers. (NCAA Approved)

### ***US History***

Students will learn the history of the United States through this course, which surveys from colonial times to the present time the prominent historical facts, prevailing philosophies and historical trends, as well as social, economic, and political developments. It is an alternative to American Studies for students who have selected Advanced Placement English Language and Composition without also taking Advanced Placement United States History. Students enrolled in this course, and in good standing at Regis Jesuit, who have a strong interest in participating in a Close Up Washington D.C. trip over Spring Break, may apply to the Social Studies Department Chair to be included. Students must provide a letter of recommendation from current teachers. The trip will provide opportunities to meet people, see places and gain firsthand experience observing the processes of our national government. This yearlong course is open only to juniors. (NCAA Approved)

### ***US History & US Literature***

Using an integrated and team-taught approach, students will learn the literature and history of the United States. The course surveys prominent historical facts, prevailing philosophies and historical trends, as well as social, economic, and political developments. Literary selections will show the integration of these trends and developments and their expression of the spirit of America. Students enrolled in this course, and in good standing at Regis Jesuit, who have a strong interest in participating in a Close Up Washington D.C. trip over Spring Break, may apply to the Social Studies Department Chair to be included. Students must provide a letter of recommendation from current teachers. The trip will provide opportunities to meet people, see places and gain firsthand experience observing the processes of our national government. This yearlong course is only open to juniors. (NCAA Approved)

### ***AP US History***

Advanced Placement U.S. History is a chronological and thematic survey course in United States history covering the period from colonial times to the present. It is designed to provide students with the analytical skill and factual knowledge to deal critically with the problems and issues of American history. The yearlong course prepares students for intermediate and advanced college courses by making demands equivalent to those made by full year introductory college courses and it is useful to prepare students to take the AP United States History exam. Students enrolled in this yearlong course, and in good standing at Regis Jesuit, will be invited to participate in a Close Up Washington D.C. trip to the

capital over Spring Break. They will have the opportunity to meet people, see places and gain firsthand experience observing the processes of our national government. (NCAA Approved)

### ***AP European History***

This is a full year course that is taught at the level of an introductory college course in the history of Western Civilization, with extensive expectations for students' reading as preparation for class discussions and writing activities. Major topics to be examined include the Renaissance, the Reformation and Counter-Reformation, Nationalism and the rise of the European State, the 20th century wars and diplomacy. Students will also be strongly encouraged to take the AP European History exam that is given in May for possible college credit at other institutions. There is a summer reading and writing requirement. The course is only open to seniors. (NCAA Approved)

### ***Economics***

This semester course is an introduction to economic principles and theory, presented within the context of contemporary conditions in the U.S. and abroad. Students will study issues relating to global finance, manufacturing, energy resources, and socio-political implications of international trade with the goal of becoming a better informed member of the world community. This course is only open to seniors. (NCAA Approved)

### ***US Government***

In this semester course, students will examine the three branches of the government: Executive, Legislative and Judicial. Emphasis will be placed on Executive actions of the President, Congressional legislation and Supreme Court decisions. Through a combination of lecture-based discussions and simulations, the student will become a more informed American citizen who understands the systems of government and is capable of participating in the processes. Students enrolled in this course, and in good standing at Regis Jesuit, will be invited to participate in a Close Up Washington D.C. trip to the capital over Spring Break. They will have the opportunity to meet people, see places and gain firsthand experience observing the processes of our national government. This course is only open to seniors. (NCAA Approved)

### ***AP US Government***

This is a one-semester advanced course. Students will analyze the contemporary nature and function of the American national political system. Students will understand the framework of American political values and traditions, the essential components of the institutions and processes through which the political system operates, and how public policy is adopted and implemented. (NCAA Approved)

### ***Sociology***

Sociology will provide students with an appreciation for the causes and consequences of human behavior. A variety of classroom activities will encourage the student to analyze his social environment. Emphasis will be placed on the five key concepts of modern society by focusing on such significant issues as deviance, stratification, minorities, poverty, crime and gender. This semester course is only open to seniors. (NCAA Approved)

### ***Psychology***

Through exposure to psychological theories, exploration of the human psyche, and stages of psychological development, students will develop a deeper appreciation of the human person and arrive at greater understanding of themselves and others. The areas to be explored are: personality, development, cognitive processes, dysfunction and resolution of psychological conflict. This semester course is only open to seniors. (NCAA Approved)

### ***Philosophy***

This semester course is designed to give students a survey of great philosophers and impact philosophical thoughts throughout the ages. It will also give students a strong foundation in critical and creative thinking, argument construction, and argumentative writing. Students will also engage in open-minded discussion and professional debate as they tackle, head-on, some of the greatest philosophical ideas in human history. This course is only open to seniors. (NCAA Approved)

### ***Model UN/International Relations***

This is a semester elective course that will investigate the world of international relations using the mechanism of the Model United Nations. Primarily a student centered course, activities will include diplomat role playing in United Nations agencies simulations, as well as developing the skills of research, debate, diplomatic composition, and consensus building. Students may take this semester course twice for credit, but not in the same school year. Students of all grade levels may enroll. (NCAA Approved)

### ***American West***

This semester course explores the unique history and development of the American West, from the conquest of the Spanish southwest to present day. The content will allow students to focus on a specific segment of American history, gaining greater insight into the Native American and Mexican cultures that preceded the westward migration of Anglo-Americans in the mid-nineteenth century. The class will use an interactive approach that will promote students' research and presentation skills. This course is only open to seniors. (NCAA Approved)

### ***AP Macroeconomics***

This is a one-semester Advanced Placement course that will prepare students for the AP

Macroeconomics exam. Students will understand basic economic concepts. Students will also practice in-depth analysis of topics that include: the measurements of economics performance, national income & price determination, financial sectors, stabilization policies, economic growth, and international trade & finance. This course is open to seniors or to juniors with permission from the instructor. Prerequisite: students must have successfully completed Honors Algebra 2/Trigonometry.

### ***Theology***

#### ***Theology 1***

In this yearlong course, students will be introduced to the history of Regis Jesuit High School, the life of St. Ignatius of Loyola, and Ignatian spirituality. Students will also be introduced to the beliefs and practices of the Roman Catholic Church. In the second semester, students will be challenged to understand the implications of Catholic and Ignatian thought on how they live their lives morally and ethically. Students will learn about the consequences, personally and socially, of what their choices involving alcohol and other drugs, sexuality, and the ways to treat others.

#### ***Theology 2 Semester 1***

This Semester 1 course will examine Scripture in its entirety, from the Hebrew Scriptures through the New Testament. Students will get to know the "stories," but at the same time be challenged to understand the content at a deeper existential level, as they begin to engage scripture exegetically. Students will engage in the hermeneutical task of uncovering the meaning of scripture when it was written (historical criticism), but with an ultimate aim of understanding how the Scriptures connect with their own lives.

#### ***Theology 2 Semester 2***

This Semester 2 course will examine Scripture in its entirety, from the Hebrew Scriptures through the New Testament. Students will get to know the "stories," but at the same time be challenged to understand the content at a deeper existential level, as they begin to engage scripture exegetically. Students will engage in the hermeneutical task of uncovering the meaning of scripture when it was written (historical criticism), but with an ultimate aim of understanding how the Scriptures connect with their own lives.

#### ***Theology 3 Christology & Morality***

This year-long course contains two interrelated components as it challenges the students with the fundamental question: Who is Jesus and what does he have to do with how I live my life? Students will examine the New Testament and the first-century world in depth in order to more fully understand the principal source for the Christian faith. In so doing, students will sharpen and clarify their understanding

of what the Christian life calls us to. After engaging the study of Jesus, we will examine the moral implications of the Catholic faith, including issues of life (abortion, capital punishment, bioethics, euthanasia, etc.) and ethical living (war, poverty, drugs, sexuality, etc.). This study of these moral issues will rest upon a foundational introduction to philosophical morality (Aristotle, Kant, Mill, Catholic Ethics) and basic psychology (Freud, Maslow, Keirsey).

worship. We will study of some of the great thinkers in modern human history (Dostoevsky, Tolstoy, Wiesel, Vonnegut, Hesse, Hugo, Kazantzakis, etc). The course will be reading intensive, and to the extent possible, we will teach the course in a seminar style, heavily dependent upon independent student reading and dialogue. This yearlong course is by invitation only. Students may speak with their junior theology teacher about the course.

### ***Theology 4 Semester 1***

This semester course serves to orient all of a student's theological explorations over their four years at Regis Jesuit according to the foundational dual pillars of Christianity: Love of God (Fall Semester) and Love of Others (Spring Semester). In so doing, much of what students have encountered in their past Theology courses at RJ will be expanded upon and contextualized in such a way as to reveal how a deep, full understanding of the true nature of love is invaluable to live in right relationship with one's self, others, God, and Creation. In particular, this course will explore how love is a fundamental component of the human being's spiritual journey, how service offers us an opportunity to put love into action, how Catholic Social teaching guides us in regards to what forms love takes on larger, institutional levels, and how fostering a genuine practice of discernment helps inform the decision-making process of anyone meaningfully striving to live as Christ.

Regis Jesuit High School admits students of any race, color, national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school-administered programs.

### ***Theology 4 Semester 2***

This semester course serves to orient all of a student's theological explorations over their four years at Regis Jesuit according to the foundational dual pillars of Christianity: Love of God (Fall Semester) and Love of Others (Spring Semester). In so doing, much of what students have encountered in their past Theology courses at RJ will be expanded upon and contextualized in such a way as to reveal how a deep, full understanding of the true nature of love is invaluable to live in right relationship with one's self, others, God, and Creation. In particular, this course will explore how love is a fundamental component of the human being's spiritual journey, how service offers us an opportunity to put love into action, how Catholic Social teaching guides us in regards to what forms love takes on larger, institutional levels, and how fostering a genuine practice of discernment helps inform the decision-making process of anyone meaningfully striving to live as Christ.

### ***Senior Theology Seminar***

"Noble Minds and Sacred Paths" provides a solid foundation in Philosophy (Plato, Aristotle, Augustine, Aquinas, Pascal, Nietzsche, Existentialism, etc.) in order to think through the problems and benefits of religious belief. We will then explore the manifold responses to the sacred as witnessed by the major world religions (Hinduism, Buddhism, Taoism, and Islam). The course will incorporate visits to local temples and houses of

## Boys Division Graduation Requirements

Subject Area Required Credits  
(1 semester = 0.5 credit)

- English.....4.0
- Mathematics.....4.0
- Theology.....4.0
- Science.....3.0
- Social Studies:.....3.0
- Classical & Modern Language.....2.0
- Communications.....0.5  
  - Acting, Advanced Journalism, Advanced Journalism 2, Broadcast Journalism, Competitive Speech and Debate, Journalism, Interpersonal Communication, RJ Sports Network, RJ Sports Network 2, Speech & Debate, Technical Theatre, Theatre
- Humanities/Arts.....0.5  
  - Acting, Advanced Guitar, Advanced Jazz Ensemble, Advanced Music Theory, AP Studio Art, Beginning Guitar, Beginning Piano, Ceramics 1, Ceramics 2, Ceramics 3, Chorus, Concert Band, Fine Art 1, Fine Art 2, Introduction to Music, Jazz Band, Music Theory, Sculptural Explorations, String Orchestra, Vox Lucis
- Computer Science.....0.5  
  - Animation, AP Computer Science Principles, Architecture, Computer Graphic Illustrator, Computer Graphic Photoshop, Computer Programming 1, Computer Programming 2, Robotics 1, Robotics 2, Technology for Communication, Video Production 1, Video Production 2, Yearbook
- Physical Education.....1.0 (0.5 credit of Health, 0.5 credit of PE)
- Electives.....5.5

### **Total Credits Required for Graduation: 28**

Note: Students should consult their counselors and the admission requirements of the colleges of their choice when planning their high school courses. Three years of Classical and Modern Language are strongly encouraged by many colleges. High school graduates must complete four years of mathematics before gaining admittance to any Colorado four-year institution.

Regis Jesuit High School is on a block schedule with both Divisions on an alternate block schedule. Students must be enrolled in a full complement of courses (seven classes) each semester. The eighth period is used for all students to participate in the required Advisory program, as well as scheduled pastoral, enrichment and student life activities. Additionally, all students participate in pastoral retreat programs each year and are required to complete service hours each year, including two-week service projects during the junior and senior years. Seniors are required to complete the Senior Capstone Project.