Juan Diego Academy

Course Description Catalog

2019 - 2020

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JUAN DIEGO ACADEMY

LIST OF COURSES

- Unless otherwise noted, courses are two semesters.
- All courses are listed on the Course Selection Guide.
- Courses offered are subject to change. Courses will be offered depending on *student requests* and *teacher availability*.
- Students enrolled in an AP course are expected to take the AP exam.
- Students have a June 1st deadline to qualify for enrollment in Dual-Credit.
- Contact Mrs. Veronica Rodriguez for questions concerning course selections. 956-583-2752 Ext. 306

Department of Religion

Religion I · Grade 9 / 1.0 credit
Religion II · Grade 10 / 1.0 credit
Religion III · Grade 11 / 1.0 credit
Religion IV · Grade 12 / 1.0 credit

Religion I Sacred Scripture and the Person of Jesus Required course for all freshman. An introductory course to the Old and New Testaments, especially as they apply to an understanding of the person of Jesus Christ and unfolding of salvation history. Contemporary Catholic perspectives and practices will be discussed. Student will consider the concepts of revelation, culture, and literary forms as they relate to understanding and reading the Bible through a Catholic perspective.

Religion II Sacraments and Morality Required course for all sophomores. Students will learn and come to appreciate the Church's sacraments as "doors to the sacred" and opportunities for deepening one's faith in both a personal and communal way. The Church and its methods of worship and prayer will also be explored. In the second semester students will analyze and apply the foundations of Christian moral attitudes and action to grapple with current moral dilemmas and how the Church responds to them. Students will be required to research a current moral issue in order to better understand the complexity of moral issues and Christian decision-making.

Religion III Foundations of Catholic Social Teaching Required course for all juniors. Using scriptural themes as a framework, students will be challenged to confront injustice, violence, and victimization with hearts and minds inspired by what the Catholic Church teaches. Issues discussed will include the option for the poor and vulnerable, the rights and responsibilities of workers, the right to life and self-determination, war and violence, and care for creation. This course will include a major research and presentation component.

Religion IV Call to Ministry Required course for all seniors. This course directly responds to Juan Diego Academy's vision of "forming young men and women to lead and be active participants in their Church and community" by involving students both academically and experientially in a lived experience of ministry both within the Juan Diego Academy community and through the larger Church. Students will come to an understanding what ministry is and actively participate in it by preparing and coordinating the school's Masses and other ministerial activities. Students will gain an overview of liturgical ministries, the ministry of retreats, and peer counseling skills. Ethical and practical matters in ministry will also be discussed. Through prayerful reflection, students will be challenged to take what they have learned and live it out in service to the church and global community. Involvement in ministry outside of the school will also be expected, over and above the Christian Ministry hours required for graduation.

Department of Language Arts

English I, English I Pre-AP · Grade ٩ / ١,٠ credit
English II, English II Pre-AP · Grade ١٠ / ١,٠ credit
English III· Grade 11 / 1.0 credit
English IV · Grade ١٢ / ١,٠ credit
Dual Credit English IV / Composition I & II (1301 & 1302) · Grades 10-11 / 1.0 credit (6 Hrs.)
Dual Credit English Introduction to Literature (2341) · Grade 12 / 0.5 credit (3 Hrs.)
Dual Credit English British Literature (2321) ·Grade 12 / 0.5 credit (3 Hrs.)

English I Covers the writing process, grammar, usage, and mechanics of writing. Develops study skills, vocabulary, and research skills. Integrates writing of paragraphs and multi-paragraph compositions with study of the short story, poem, nonfiction essay, Shakespearean drama, and the novel. Selected works of literary merit will be read independently.

English I Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Includes the above elements while further developing higher-order thinking, study skills, and research skills. Requires more independent reading of selected works of literary merit, more writing of longer compositions, and critical thinking activities. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Note: Summer Reading is required.

English II Survey of Literature Continues the writing process and grammar study; introduces PSAT writing skills and vocabulary. Integrates rhetorical and literary devices into writing. Students will write original satire, poetry, literary analysis, personal narrative, and persuasive issue papers. Reading selections focus on science fiction, fantasy, modern realistic fiction, historical fiction, nonfiction essays, and Shakespearean drama. Issue research, documentation, and oral presentation will be required. Selected works of literary merit will be read independently.

English II Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Students will develop and use independent thinking skills to make connections across disciplines and between abstract learning and the realities of the work. Includes work on advanced grammar skills and vocabulary development in preparation for PSAT, SAT, and ACT tests and for the Advanced Placement tests. Work continues on critical thinking skills and critical reading skills. Students will write a variety of literary analysis, issue development, original satire, and personal narrative papers. Research and documentations skills will be reinforced. Students will focus on awareness and development of style using advanced syntax, rhetorical and literary devices, and sophisticated diction to develop a personal writing style. At least one written assignment will become a part of an oral presentation. Selected works of literary merit will be read independently. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Note: Summer Reading is required.

English III American Literature Involves an intensive study of advanced usage and vocabulary including analogies. A survey of American literature including literary and nonfiction texts provides the source for critical thinking and literary essays including a documented research paper MLA formatted. Emphasis in composition includes the precise, reflective writing of a variety of essays, including critical essays and research requiring the use of technology to produce compositions.

English IV British Literature Explores British literature from its Anglo-Saxon beginnings to modern works, focusing on cultural and historical perspectives. Selected works of literary merit are required for independent reading. Will focus on writing component of expository research and literary criticism.

Dual Credit Enrollment English IV / Composition I and II (1301 & 1302) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Scores of 351 in Reading and 5 Essay or 4 Essay + 340 Grammar Skills.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. Composition I provides instruction in the writing and analysis of expository prose; emphasis on rhetorical principles and basic organizational modes. Composition II emphasizes the writing of analytical essays, which may include literary analysis; preparation of the investigative paper.
(**6 Semester Hours College Credit**)

This course covers all the criteria for both South Texas College English 1301-1302 as well as the criteria for English IV. The first semester stresses composition and requires fourteen 50-minute lab sessions plus a Lab Project for a total of fifteen hours of lab. The second semester stresses literary analysis. Students must be capable of self-directed, independent study.

Dual Credit Enrollment English Introduction to Literature (2341) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Scores of 351 in Reading and 5 Essay or 4 Essay + 340 Grammar Skills.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**3 Semester Hours College Credit**)

Dual Credit Enrollment English British Literature (2321) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Scores of 351 in Reading and 363 in Writing.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**3 Semester Hours College Credit**)

Department of Communications

Communication Applications · Grades 9-12 / 0.5 credit
Debate I, II, III · Grades 9-12 / 1.0 credit
Dual Credit Public Speech 1315 · Grades 9-12 / 0.5 credit

Communication Applications (Incorporated into English I or English II) This course is for successful participation in professional and social life, students must develop effective communication skills. Rapidly expanding technologies and changing social and corporate systems demand that students send clear verbal messages, choose effective nonverbal behaviors, listen for desired results, and apply valid critical-thinking and problem solving processes.

Debate I, II, III *Prerequisite: Communication Applications recommended.* Students analyze and apply specific formats for debate and processes of logic and critical thinking. Reading experiences, practice writing single issue briefs, interpreting resolutions, developing affirmative and negative case construction, listening to and performing cross examination, evaluating arguments and presenting debates are heavily emphasized in the course; and other wrap-around, associated ideas are presented as well. Students are expected to attend competitive tournaments on a regular basis.

Dual Credit Enrollment Speech 1315 *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Scores of 351 in Reading and 363 in Writing.* **Provides opportunities for the exceptional and highly motivated student**. The course covers the application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**3 Semester College Hours Credit**)

Department of Journalism

Journalism / Yearbook I, II, III, IV · Grades 9-12 / 1.0 credit

Journalism / Yearbook (*The Lion*) Studies and applies the elements and processes necessary to produce school publications. Develops skills in news judgment, information gathering, photography, headline and caption writing, graphic design and layout, proofreading, editing, and advertising. Students enrolled in Advanced Journalism will refine and enhance their journalistic skills, research self-selected topics, and plan, organize and prepare a journalism project. Students will be selected as editors for the publications of the yearbook and newspaper. Requires time beyond the regular school day. Class size will be limited and teacher approval is required.

Department of College Preparatory

College Transition · Grade 9 / 1.0 credit

College Transition Required course for all freshman. This college preparatory course is designed to equip students with the knowledge, skills, and abilities necessary to be active and successful leaners, both in high school and in college. Students examine numerous research-based learning strategies that are proven to lead to academic success such as goal setting, effective time management, handling stress, note taking, active reading, test-taking strategies, and conducting research. Students will research financial scholarships and grant opportunities, complete applications, and explore technical schools, colleges, and universities. With the increased emphasis on career and college readiness and post-secondary education, students need a course that will provide opportunities to meet these post-secondary opportunities – College Transition is that course!

Department of Mathematics

Algebra I, Algebra I Pre-AP · Grade 9 / 1.0 credit
Geometry, Geometry Pre-AP · Grades 9-10 / 1.0 credit
Algebra II, Algebra II Pre-AP · Grades 10-11 / 1.0 credit
Precalculus · Grades 11-12 / 1.0 credit
Dual Credit College Algebra I (1414) · Grade ١١-12 / 0.5 credit (3 Hrs.)
Dual Credit Mathematics for Business & Social Sciences (1324) · Grade ١١-12 / 0.5 credit (3 Hrs.)
Dual Credit Calculus for Business & Social Sciences (1325) · Grade 11-12 / 0.5 credit (3 Hrs.)
Dual Credit Contemporary Mathematics (1332) · Grade 11-12 / 0.5 credit (3 Hrs.)
Dual Credit Math Elementary Statistical Methods (1442) · Grade 11-12 / 0.5 credit (3 Hrs.)
Dual Credit Precalculus Math (2412) · Grade 11-12 / 0.5 credit (3 Hrs.)
Calculus AB AP w/Math Lab · Grade 12 / 2.0 credits

Algebra I Develops proficiency with mathematical skills, expands understanding of mathematical concepts, and improves logical thinking. Fundamental basic properties of real numbers are presented. Students apply algebraic rules using intuition and deductive reasoning. Introduces students to basic operations with variables, polynomials, linear equations, and inequalities in one and two variables, rational expressions, radicals, and quadratic equations.

Algebra I Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. Basic understandings: foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; function concepts; relationship between equations and functions; tools for algebraic thinking; and underlying mathematical processes. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Geometry Enables students to develop a logical pattern of thinking with the use of geometric figures such as triangles, parallelograms, circles, prisms, cones, and spheres. Presents plane geometry as a structural system, with formal geometric proofs. Includes some spatial and coordinate geometry. Emphasizes the connections between algebra and geometry. Geometry is required for all diploma plans.

Geometry Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Develops advanced skills in algebraic operations including the study of plane and spatial relationships, synthetic and coordinate geometry, and the development of geometry as a structured mathematics system, with formal geometric proofs requiring considerable mathematical insight. Emphasizes the connections between algebra and geometry. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Algebra II Develops advanced skills in algebraic operations, while examining systems of quadratic equations and the complex number system. Presents concepts of algebra and geometry as related to conical, linear, polynomial, exponential, logarithmic, and trigonometric functions and their applications.

Algebra II Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Develops advanced skills in algebraic operations, while examining systems of quadratic equations and the complex number system. Emphasizes mathematical structure, precise language, and an analytical approach in the study of the complex number system, conical, linear, polynomial, exponential, logarithmic, and trigonometric functions. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Precalculus Prerequisite: *Geometry and Algebra II*. Integrates and extends the concepts and skills of trigonometry, elementary analysis, and analytical geometry. Provides opportunities for a variety of applications. Should be taken by students planning to take Physics and/or AP Calculus. Prepares students for the SAT II: Mathematics. Required for the advanced diplomas.

Dual Credit Enrollment College Algebra I (1414) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Score 350 in Math.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet Southwest Texas Junior College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. Fundamentals of algebra, including inequalities, functions, quadratic equations, exponential and logarithmic functions, systems of equations, determinants and instructor option of binomial theorem or progressions (or both). Provides college-level learning experiences for students. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**4 Semester Hours College Credit**)

Dual Credit Enrollment Mathematics for Business and Social Sciences (1324) *Prerequisite: Two years of high school algebra or MATH 1314.* **Provides opportunities for the exceptional and highly motivated student**. This course is designed primarily for students in business administration and economics covering functions and graphs, systems of linear equations, matrices, linear programming, and mathematics of finance. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**3 Semester Hours College Credit**)

Dual Credit Enrollment Calculus for Business and Social Sciences (1325) *Prerequisite: MATH 1324.* **Provides opportunities for the exceptional and highly motivated student**. A continuation of Math 1324 covering the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**3 Semester Hours College Credit**)

Dual Credit Enrollment Contemporary Mathematics (1332) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Score 350 in Math.* **Provides opportunities for the exceptional and highly motivated student**. Intended for Non-STEM (Science, Technology, Engineering and Mathematics) majors. Topics include introductory treatments of set and logic, financial mathematics, probability and statistics and appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication will be embedded throughout the course. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**3 Semester Hours College Credit**)

Dual Credit Enrollment Mathematics Elementary Statistical Methods (1442) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Score 350 in Math.* **Provides opportunities for the exceptional and highly motivated student**. This course is a presentation and interpretation of data, probability, sampling, correlation and regression, analysis of variance, and use statistical software. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**4 Semester Hours College Credit**)

Dual Credit Enrollment Precalculus Math (2412) *Prerequisite: MATH 1414 or MATH 1324.* **Provides opportunities for the exceptional and highly motivated student**. This course is the combined study of algebra, trigonometry and other topics needed to prepare students for the study of calculus. Topics include trigonometric functions, inverses, graphs, and identities; vectors; polar and parametric equations; conic sections; partial fractions; linear programming; applications of systems and matrices and may include additional topics such as: sequences and series, mathematical induction and/or probability. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**4 Semester Hours College Credit**)

Calculus AB Advanced Placement w/Math Lab *Prerequisite: Precalculus.* **Provides college-level learning experiences for the exceptional and highly motivated student.** This course continues the examination of the topics begun in Pre-Calculus. The idea of limits is developed into the first derivative, mean value theorem, and continues into the idea of integration as the area under a curve. Prepares students for the College Board Advanced Placement Calculus AB Examination and SAT II: Mathematics. This course is approximately equivalent to the first semester of college calculus (2 Hours).

Department of Engineering & Robotics

Principles of Applied Engineering · Grades 9-10 / 1.0 credit
Robotics I · Grades 10-12 / 1.0 credit
Robotics II · Grades 11-12 / 1.0 credit
Engineering Design & Problem-Solving · Grade 12 / 1.0 credit

Principles of Applied Engineering *Prerequisite: None.* Students will be provided an overview of various fields of Science, Technology, Engineering, and Mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or systems. Students will be required to use multiple software applications to prepare and present course assignments.

Robotics I *Prerequisite: Principles of Applied Engineering and Physics I or Concurrent Enrollment in Physics I.* A beginning course in the field of robotics, its objective is to introduce the students to basic programming as well as problem solving strategies. This will involve students in the development, building and programming of a LEGO robot and a FIRST robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Students will design robots that will be programmed to compete in the FIRST robotics competition (after-school hours & competition required). Training on the proper use of basic power tools.

Robotics II *Prerequisite: Robotics I.* In Robotics II, students will explore artificial intelligence and programming in the robotics and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will construct prototypes and use software to test their designs. Requires after-school hours and weekend competitions. Robotics II students will also be competing in FIRST.

Engineering Design & Problem-Solving *Prerequisite: Principles of Applied Engineering and Robotics I.* Students in this course will utilize the creative process by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. Science aims to understand the natural world, while engineering seeks to shape the world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem-solving are inherent to all engineering disciplines.

Department of Science

Biology I, Biology I Pre-AP · Grades 9 / 1.0 credit
Aquatic Science · Grades 10-12 / 1.0 credit
Biology AP w/Scientific Research & Design · Grade 11-12 / 2.0 credits
Chemistry I, Chemistry I Pre-AP · Grade 10-11 / 1.0 credit
Chemistry AP w/Scientific Research & Design · Grade 12 / 2.0 credits
Physics · Grade 11-12 / 1.0 credit
Physics I AP w/Scientific Research & Design · Grade 11-12 / 2.0 credits
Physics II AP w/Scientific Research & Design · Grade 12 / 2.0 credits
Dual Credit Biology I & II for Science Majors (1406 & 1407) · Grades 12 / 1.0 credit (8 Hrs.)
Dual Credit Biology I & II for Non-Science Majors (1408 & 1409) · Grades 12 / 1.0 credit (8 Hrs.)

Biology I Includes a study of the unity of living things by focusing on the similarity and interrelatedness of cell structure, chemistry, and heredity of all organisms. Reviews the history of life and surveys representative organisms from each of the five kingdoms.

Biology I Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teachers Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Includes a deeper study of the unity of living things by incorporating inquiry techniques, problem solving, and critical thinking. Students must choose and conduct a lengthy experimental research project emphasizing field or laboratory observations, hypothesizing, experimenting and interpretation and analysis of data. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Aquatic Science *Prerequisite: Biology or Biology Pre-AP.* Students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic system. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments.

Biology Advanced Placement w/Scientific Research & Design *Prerequisite: Biology and Chemistry.* **Provides opportunities for the exceptional and highly motivated student**. This course is designed to be the equivalent of the general biology course and laboratory course usually taken during the 1st college year. Topics in AP Biology include: molecules, cells, enzymes, heredity, molecular genetics, evolutionary biology, diversity of organisms, comparative plant and animal studies and ecology. Students will develop an understanding of biological concepts rather than memorizing terms and technical details. Provides a foundation in biology for students who wish to prepare for The College Board Advanced Placement Examination. Prepares students for careers with science emphasis, such as medicine, dentistry, science research, science education, space technology, and nursing (2 Hours).

Chemistry I *Prerequisite: Biology I and Algebra I.* This course includes a descriptive study of matter and energy, atomic structure, chemical formulas, equations, bonding kinetic theory, matter gas laws, nuclear chemistry, and their mathematical relationships. Emphasizes the practical applications of the chemical subject matter presented. Includes properties of solids, liquids, and solutions as well as some organic chemistry and qualitative analysis. Introduces the chemistry of acids, bases, salts, and redox reactions.

Chemistry I Pre-Advanced Placement *Prerequisite: 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Includes fundamental chemical concepts such as gas laws, atomic structure, kinetics, equilibrium, and oxidation and reduction. This course provides opportunities for students who exhibit the ability to handle complex scientific data and prepares them for careers in science or engineering such as medicine, scientific research, dentistry, chemical engineering, and electrical engineering. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

Chemistry I Advanced Placement w/Scientific Research & Design *Prerequisite: Biology and Chemistry* **Provides opportunities for the exceptional and highly motivated student**. AP Chemistry is designed to be equivalent of the general chemistry course and the laboratory course usually taken during the 1st college year. Includes an in-depth study of chemical concepts with laboratory emphasis and sufficient foundation in chemistry for students preparing for The College Board Advanced Placement Examination. Prepares students for careers in areas demanding an in-depth knowledge of science, such as engineering, aerodynamics, space technology, physics, medicine, dentistry, nursing and environmental law (2 Hours).

Physics *Prerequisites: Biology, Chemistry and Algebra II.* Students who have not completed Precalculus must be concurrently enrolled. Introduces the principles of physics as they apply to mechanical, fluid, electrical, and thermal systems. Includes the observation of laws of force and motion, the nature of light, wave phenomena, and properties of electricity and magnetism. Promotes investigations that emphasize accurate observations, collections of data, analysis of data, and manipulation of laboratory apparatus.

Physics Pre-Advanced Placement *Prerequisites: Biology, Chemistry, and Algebra II. 90 Average (R) / 85 Average (A) or Teacher Recommendation with Regards to Extenuating Circumstances.* Students who have not completed Precalculus must be concurrently enrolled. **Provides opportunities for the exceptional and highly motivated student**. Includes the investigation of the areas of physics relating to mechanics, heat, sound, light, electricity and magnetism, atomic physics, nuclear physics, and quantum optics. Emphasizes accurate measurement with quantitative experimental results treated mathematically.

Physics I Advanced Placement w/Scientific Research & Design *Prerequisites: Biology, Chemistry, Physics and Algebra II.* **Provides opportunities for the exceptional and highly motivated student**. Students who have not completed Algebra II must be concurrently enrolled. This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics); work, energy, and power; and mechanical waves and sound. It will also introduce electrostatics and electric circuits. Students will develop an understanding of foundational principles of physics by applying these principles to physical situations that combine multiple aspects of physics rather than present concepts in isolation. They will design and conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation, and develop critical thinking skills through applying algebraic methods to formulate physical principles and solve complex physical problems. Designed for students planning technical careers in science and mathematics (2 Hours).

Physics II Advanced Placement w/Scientific Research & Design *Prerequisites: Physics I Advanced Placement.* **Provides opportunities for the exceptional and highly motivated student**. AP Physics 2 is the equivalent of a second semester college course in algebra-based physics. This course develops a deep understanding of the foundational principles of physics through the study of fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Students will design and conduct inquiry-based laboratory investigations to solve problems through first-hand experience, and develop critical thinking skills by applying algebraic methods to solve complex physics problems (2 Hours).

Dual Credit Enrollment Biology I for Science Majors (1406) *Prerequisite: SAT – 500 Verbal & 500 Math - Minimum Composite 1070 or ACT - 19 English & 19 Math - Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. This course is an in-depth study of the fundamental principles of living organisms including physical and chemical properties of life, cellular organization and function. Concepts of metabolic pathways, cellular respiration, photosynthesis, mitosis, meiosis, and molecular biology of the gene, genetics biotechnology, evolutionary adaptation and the scientific method are included. Three laboratory hours per week. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**4 Semester Hours College Credit**)

Dual Credit Enrollment Biology II for Science Majors (1407) *Prerequisite: Biology 1406.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. This course is a continuation of Biology 1406. It is an in-depth study of the fundamental principles of living organisms including classification and evolution. Topics include biodiversity of viruses, bacteria, archaea, protists, fungi, plants, and animals, comparison of the organization, function and repro9duction, ecology of behavior, populations, communities, and the biosphere. Three laboratory hours per week. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**4 Semester Hours College Credit**)

Dual Credit Enrollment Biology I for Non-Science Majors (1408) *Prerequisite: SAT – 500 Verbal & 500 Math - Minimum Composite 1070 or ACT - 19 English & 19 Math - Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. This is an overview of the fundamental principles of living organisms including physical and chemical properties of life, cellular organization and function. Concepts of metabolic pathways, cellular respiration, photosynthesis, mitosis, meiosis, and molecular biology of the gene, genetics, biotechnology, evolutionary adaptation and the scientific method are included. Three laboratory hours per week. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**4 Semester Hours College Credit**)

Dual Credit Enrollment Biology II for Non-Science Majors (1409) *Prerequisite: Biology 1408.* **Provides opportunities for the exceptional and highly motivated student**. This course is a continuation of Biology 1408. It is an overview of the fundamental principles of living organisms including classification and evolution. Topics include biodiversity of viruses, bacteria, archaea, protists, fungi, plants, and animals, comparison of their organization, function and reproduction with humans, and ecology of behavior, populations, communities, and the biosphere, including effects of human activities. Three laboratory hours per week. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**4 Semester Hours College Credit**)

Department of Health Science Technology

Principles of Health Science · Grades 9-12 / 1.0 credit
Medical Terminology · Grades 9-12 / 1.0 credit
Anatomy & Physiology · Grades 11-12 / 1.0 credit
Practicum in Health Science · Grade 12 / 2.0 credits

Principles of Health Science *Prerequisite: None.* This entry-level Health Science course provides an overview of the diverse aspects of the healthcare industry. These aspects include, but are not limited to, therapeutic, diagnostic, health information, support services, and biotechnology research and development systems of the health care industry. The course focuses on the health careers, exploration, leadership development, ethical and legal responsibilities, the history of health care and the economics of health care. Students will develop a concept of health and wellness from the perspective of health consumers, as well as potential health professionals.

Medical Terminology *Prerequisite: Principles of Health Science.* The student will learn and recognize word roots, prefixes, and suffixes used in medical language today and will learn how to combine words to create meaningful medical conditions as well as comprehend their definition and know the correct spelling. The course will cover medical terms related to all major body systems, including: muscular, skeletal, respiratory, circulatory, digestive, reproductive, and urinary systems. Learning the language of medicine is an exciting and rewarding journey for any student who is considering health care as a chosen profession.

Anatomy and Physiology of Human Systems *Prerequisite: Biology and Chemistry.* This course is an in-depth study of the structure and functions of the components of the human body. Includes the investigation of cell specialization, the cooperative function of cells as tissues and organs, the major body systems, and the interrelationship of those systems in a living organism. Provides laboratory opportunities to investigate anatomical structures and to regulate mechanisms that influence how systems function, reinforced through computer stimulations, guest speakers, and off-campus visitations. Builds a knowledge base for those students who wish to pursue a career in medicine. Strongly recommended for all students interested in Medical/Health Science careers.

Practicum in Health Science *Prerequisite: Principles of Health Science and Medical Terminology. Corequisite: Anatomy and Physiology.* The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical legal responsibilities and limitations and understand the implications of their actions. A significant portion of the work required in this course will be performed at local health care facilities.

Department of Social Studies

World Geography Pre-AP · Grade ٩ / ١,٠ credit
World History · Grade ١٠ / 1.0 credit
U.S. History · Grade ١١ / ١,٠ credit
U.S. Government · Grade 11-12 / 0.5 credit
Economics · Grade 11-12 / 0.5 credit
U.S. Government AP · Grade 12 / 0.5 credit
Macroeconomics AP · Grade 12 / 0.5 credit
Sports & Performance Psychology · Grade 10-12 / 0.5 credit
Dual Credit World Civilizations I & II (2321 & 2322)· Grade ١٠ / ١,٠ credit (6 Sem. Hrs.)
Dual Credit United States History I & II (1301 & 1302) · Grade 11 / 1.0 credit (6 Sem. Hrs.)
Dual Credit Principles of Macroeconomics (2301) · Grade 12 / 0.5 credit (3 Sem. Hrs.)
Dual Credit Federal Government (2305) · Grade 12 / 0.5 credit (3 Sem. Hrs.)
Dual Credit General Psychology (2301) · Grades ١٠-12 / 0.5 credit (3 Sem. Hrs.)
Dual Credit Introductory Sociology (1301) · Grades 9-12 / 0.5 credit (3 Sem. Hrs.)

World Geography Pre-Advanced Placement **Provides opportunities for the exceptional and highly motivated student**. Consists of in-depth study of world patterns of population, occupations, government, climate, landforms, natural resources, and routes of travel and trade. Includes extended reading and research with interdisciplinary aspects of art, literature, music, science, and an exceptional amount of writing. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level.

World History Surveys the history of mankind from the first civilization to the present. Provides general information of the various cultures in the world, and compares and analyzes cultural diversities and commonalties. Emphasizes events of major historical significance and incorporates contemporary world affairs.

United States History Since Reconstruction In this course, which is the second part of a two-year study of U.S. History that begins in Grade 8, students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post Cold War eras, reform movements including civil rights, the Space Age, and the nation as a world power. Students examine the impact of geographic factors on major events and analyze causes and effects of the Great Depression. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students analyze the impact of technological innovations on the American labor movement and on improvements in the quality of life in America. Emphasizes the cultural diversity and the rights and responsibilities of American citizens. Students use critical-thinking skills to explain and apply different methods that historians use to interpret the past, including points of view and historical events.

Dual Credit Enrollment World Civilizations I & II (2321 & 1222) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT – 19 English &19 Math with Minimum Composite 23 or TSI Score of 351 in Reading and 5 Essay or 4 Essay + 340 Grammar Skills.* **Provides opportunities for the exceptional and highly motivated student**. A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures from the 15the century to present. These courses examines major regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems, trans-regional networks of exchange, maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**6 Semester Hours College Credit**)

Dual Credit Enrollment United States History / United States History I and II (1301 & 1302) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT – 19 English &19 Math with Minimum Composite 23 or TSI Score of 351 in Reading and 5 Essay or 4 Essay + 340 Grammar Skills.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. Survey of the nation's colonial background, the struggle for independence and emergence of political parties; emphasis on individualism, westward expansion, social reform, and sectionalism. Survey of Reconstruction; the impact of industrialization, urbanization, and immigration; the rise of America as a world power; the quest for economic security and for social justice. The study includes research in American History. Provides college-level learning experiences for students. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**6 Semester Hours College Credit**)

United States Government Includes the study of the organization and role of government at the federal, state, and local levels; the growth and jurisdiction of national government; political processes and institutions; and rights and responsibilities of American citizenship. Relates political science issues to economics, history, philosophy, and sociology.

U.S. Government Advanced Placement *Prerequisite: 93 Average (R) / 88 Average (A) or Teacher Recommendation with regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. Includes a review of the modern political systems and an in-depth study of the organization and functions of government systems in the United States at the federal, state, and local levels. Analyzes political processes and institutions, and emphasizes the rights and responsibilities of American citizenship. Relates political science issues to economics, history, philosophy, and sociology. Includes research activities, independent study, creative projects, and problem-solving. Provides college-level learning experiences for students to prepare for The College Board Advanced Placement Examination.

Economics Emphasizes the study of the American free enterprise system, government in the American economic system, international economic relations, and consumer economics. Introduces systems used by various nations to organize the production and distribution of goods and services needed by their citizens. Reviews fundamental economic theories and operations.

Macroeconomics Advanced Placement *Prerequisite: 93 Average (R) / 88 Average (A) or Teacher Recommendation with regards to Extenuating Circumstances.* **Provides opportunities for the exceptional and highly motivated student**. This course is a thorough understanding of the principles of economics that apply to an economic system as a whole. Emphasized the study of national income and price determination, and also develops students' familiarity with economic performance measures, economic growth, and international economics. Includes research activities, problem solving, and creative projects. Provides college-level experiences for students to prepare for The College Board Advanced Placement Examination.

Sports & Performance Psychology Introduces the scientific study of human and animal behavior, and the relationship of psychology of other sciences and to problems of society. Emphasizes human growth and development, principles of learning, processes of thinking, personality theories, behavioral disorders and treatment, and interpersonal relationships. Sport psychology is that branch of psychology which deals with the study and application of the psychological principles that enhance student/athletic performance.

Dual Credit Enrollment Federal Government (2305) *Prerequisite: Sat – 500 Verbal & 500 Math with Minimum Composite 1070 or Act – 19 English & 19 Math with Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. Includes a review of modern political systems and an in-depth study of the organization and functions of governmental systems in the United States at the federal, state, and local levels. Analyzes political processes and institutions, and emphasizes the rights and responsibilities of American citizenship. Relates political science issues to economics, history, philosophy, and sociology. Includes research activities, independent study, creative projects, and problem solving. Provides college-level learning experiences for students. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(1st Semester / **3 Semester Hours College Credit**)

Dual Credit Enrollment Principles of Macroeconomics (2301) *Prerequisite: Sat – 500 Verbal & 500 Math with Minimum Composite 1070 or Act – 19 English & 19 Math with Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. Includes a thorough understanding of the principles of economic system as a whole. Emphasizes the study of national income and price determination, and also develops student familiarity with economic performances measures, economic growth and international economics. Includes research activities, problem solving, and creative projects. Provides college-level learning experiences for students. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(2nd Semester / **3 Semester Hours College Credit**)

Dual Credit Enrollment General Psychology (2301) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. An introduction to the fundamental concepts and theories in psychology. Topics include biological processes, development, learning, personality, abnormal behavior, therapy, and social interactions. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**3 Semester Hours College Credit**)

Dual Credit Enrollment Introductory Sociology (1301) *Prerequisite: SAT – 500 Verbal & 500 Math with Minimum Composite 1070 or ACT - 19 English & 19 Math with Minimum Composite 23 or TSI Score of 351 in Reading.* **Provides opportunities for the exceptional and highly motivated student**. This course is the scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st.
(**3 Semester Hours College Credit**)

Department of Business Technology

Graphic Design & Illustration · Grades 9-12 / 1.0 credit
Digital Art & Animation · Grades 9-12 / 1.0 credit
Game Programming & Design · Grades 10-12 / 1.0 credit
Web Design · Grades 11-12 / 1.0 credit

Graphic Design and Illustration Students will develop knowledge and skills needed to succeed in the Arts, Audio/Video Technology, and Communications careers. Students will be expected to develop an understanding of the industry with a focus on fundamentals elements and principles of visual art and design. Students will explore careers in graphic design and illustration including all aspects of the advertising and visual communications industries.

Digital Art & Animation Students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn the efficient acquisition of information using search strategies and using search strategies and using technology to access, analyze, and evaluate the acquire information. Students will learn to make informed decisions about technologies and their applications. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.

Game Programming & Design Students will be required to problem solve independently as they learn new software programs and coding languages. This course will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will various software programs and coding languages to create games. Students will learn and apply the appropriate artistic skills, design principles, design processes, cyber-safety procedures, and technical skills require in skill development. They will collaborate with each other and various electronic communities to solve gaming problems. This class is NOT about playing games. Student shall have a USB drive and have access to a home computer.

Web Design This course focuses on scripting, developing searching strategies, publishing skills, and placing information on a web server. Students will design and develop a visual interface-using HTML web authoring tools. The course will include editing photographs using photo-editing software.

Department of Languages Other Than English

Spanish I · Grade 9-10 / 1.0 credit
Spanish II · Grades 9-11 / 1.0 credit
Spanish Language AP · Grades 11-12 / 0.5 credit

Spanish I Fosters an increased appreciation of the Hispanic influence on American culture as well as the history of Mexico and other Spanish-speaking countries. Emphasizes reading, writing, and active oral communication skills. Required for graduation.

Spanish II Expands language competency in listening, speaking, reading, and writing in a proficiency-oriented curriculum. Emphasizes vocabulary development, comprehension, and fluency in reading and writing. Fosters increased knowledge and awareness of the culture, history, and civilization of the specific language. Required for graduation.

Spanish Language Advanced Placement *Prerequisite: Spanish I and II.* **Provides opportunities for the exceptional and highly motivated student**. The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situation. This includes vocabulary usage, language control, communication strategies, and cultural awareness. This course strives not to overemphasize grammatical accuracy at the expense of communication and is taught almost exclusively in Spanish. Students will be engaged in exploring culture in both contemporary and historical context. The course develops students' awareness and appreciation of cultural product (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Department of Fine Arts

Art I · Grades ٩-12 / 1.0 credit
Studio Art Pre-AP · Grades ١٠-12 / 1.0 credit
Studio Art 2-Dimensional Design AP · Grades 11-12 / 1.0 credit
Studio Art 3-Dimensional Design AP · 11-12 / 1.0 credit
Choral Music I, II, III, IV · Grades 9-12 / 1.0 credit
Theater Arts I, II, III, IV · Grades ٩-12 / 1.0 credit
Dual Credit Art Appreciation (1301) · Grades ٩-12 / 0.5 credit (3 Sem. Hrs.)

Art I Art I introduces the student to the Elements and Principles of Design, using traditional and innovative concepts. This course includes a sampling of drawing, painting, printmaking, photography, color theory, art history, electronic media, and sculpture.

Studio Art Pre-Advanced Placement *Prerequisite: Art I and Teacher Recommendation.* **Provides opportunities for the exceptional and highly motivated student**. Students will prepare a series of artworks, both in and out of the classroom as well as attendance at workshops, art museums, artists' studios, and other cultural events as available. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level. Class size will be limited and teacher recommendation and approval is required.

Studio Art 2-Dimensional Design Advanced Placement *Prerequisite: Studio Art Pre-Advanced Placement.* **Provides opportunities for the exceptional and highly motivated student in art.** Requires independent research and complete commitment to producing a large number of quality artworks, both in and out of the classroom. Students will produce works that may include graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Emphasizes the preparation of a portfolio for critical review by The College Board and application for college credit. Requires time beyond the regular school day. Class size will be limited and teacher recommendation and approval is required.

Studio Art 3-Dimensional Design Advanced Placement *Prerequisite: Studio Art Pre-Advanced Placement.* **Provides opportunities for the exceptional and highly motivated student**. Requires independent research and complete commitment to producing a large number of quality artworks, both in and outside of the classroom. Students will produce works of art that reflect their understanding of design principles as they relate to depth and space. Emphasizes the preparation of a portfolio for critical review by The College Board and application for college credit. Requires time beyond school day. Class size will be limited and teacher approval is required.

Choral Music Students master fundamental vocal and choral techniques in preparation for performance. Includes music theory, ear training, and sight singing. Extra rehearsals and extra performances are mandatory in part of the student's grade.

Theater Arts This course is designed to develop skills in public speaking, acting, literary interpretation, and researching issues. Enrollment in this class requires participation in Texas Forensic Association and TAPPS speaking events. It is designed to offer students time to work directly with a coach, to prepare literary entries, to research and write, and to present in class. Students will also have the opportunity to showcase their talents at school events. Teacher approval is required.

Dual Enrollment Art Appreciation (1301) *Prerequisite: Sat – 500 Verbal & 500 Math with Minimum Composite 1070 or Act – 19 English & 19 Math with Minimum Composite 23 or TSI Score of 351 in Reading.* This is a general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural and historical contexts. Students must meet South Texas College admission requirements and complete the application for admission at applytexas.org. Students must complete and submit their application by June 1st. (**3 Semester Hours College Credit**)

Department of Law, Public Safety & Security

Disaster Emergency Responses · Grade 10-12 / 0.5 credit

Disaster Emergency Responses This course is a comprehensive First Aid/CPR/AED program to assist students recognize and respond appropriately to cardiac, breathing and first aid emergencies. Students are provided the knowledge and skills needed to give immediate care to an injured or ill person and to decide whether advanced medical care is required. ***All students will become certified in adult and infant CPR / First Aid / AED in conjunction with the American Red Cross***.

Department of Health Education

Health · Grade 9 / 0.5 credit

Health (Incorporated into PAP Biology) Provides extensive coverage of health concepts recommended by the Texas Education Agency. Includes instruction to better acquaint student with the body and its systems. Also includes units on good grooming, physical fitness, nutrition, weight control, alcohol, tobacco, dangerous drugs, diseases, environmental health and safety, mental health, health agencies, and sex education with parental consent. Locally required course. This course also provides an opportunity for the study of the prevention of athletic injuries, care of athletic injuries, rehabilitation of athletic injuries, therapeutic exercise, taping and wrapping, and career investigations into medicine/sports medicine.

Department of Physical Education and Athletics

Physical Education and Athletics · Grades ٩-12 / 1.0 credit

Physical Education	**Athletics: Basketball**	**Athletics: Cross Country**	**Athletics: Golf**
	Athletics: Soccer	**Athletics: Tennis**	**Athletics: Track & Field**
	Athletics: Volleyball		

Physical Education Provides opportunities to increase knowledge and improve motor skills basic to efficient movement through participation in physical education activities. Enhances the student's knowledge and skills in individual, dual, and team sports as well as leisure and lifetime sports. A maximum of one credit can be earned in physical education.

Athletics: Basketball (Boys & Girls) **Provides opportunities for the exceptional and highly motivated student-athlete**. Basketball teams consist of varsity only. Requires athletic period, after-school / holidays practice.

Athletics: Cross Country (Boys & Girls) **Provides opportunities for the exceptional and highly motivated student-athlete**. Golf team consists of varsity only. Requires athletic period, after-school / holidays practice.

Athletics: Golf (Boys & Girls) **Provides opportunities for the exceptional and highly motivated student-athlete.** Soccer team consists of varsity only. Requires athletic period, after-school / holidays practice.

Athletics: Soccer (Boys) **Provides opportunities for the exceptional and highly motivated student-athlete**. Tennis teams consist of varsity only. Requires athletic period, after-school / holidays practice.

Athletics: Tennis (Boys & Girls) **Provides opportunities for the exceptional and highly motivated student-athlete**. Track & Field team consists of varsity only. Requires athletic period, after-school / holidays practice.

Athletics: Track & Field (Boys & Girls) **Provides opportunities for the exceptional and highly motivated student-athlete**. Volleyball teams consist of varsity only. Requires athletic period, after school / holidays practice.

Athletics: Volleyball (Girls) **Provides opportunities for the exceptional and highly motivated student-athlete**. Volleyball teams consist of varsity only. Requires athletic period, after school / holidays practice.

Students enrolled in *Dual Credit*, *Advanced Placement* and/or *Pre-Advanced Placement* courses shall possess the following personal and academic characteristics to be successful:

*Near-perfect attendance!
*Proficient oral and written communication skills!
*Exceptionally high rates of accuracy and timely completion on daily assignments!
*Self-motivated with the ability to work independently!
*Strong organizational and time management skills!
*Very high grades!

Dual Credit Program

The Dual-Credit Program is a cooperative partnership between Juan Diego Academy and South Texas College, which enables our students to receive college credits while completing the requirements for high school graduation. Students must receive approval from the principal before enrolling in a dual-credit course. Students who meet specific eligibility requirements are permitted to enroll in those college courses specified in this course description book and to earn credit toward high school graduation and college credit concurrently. Specific questions regarding dual-credit courses may be addressed to the counselor. Grades earned in dual-credit courses will be calculated for rank-in-class standing for the Classes of 2021, 2022 & 2023.

Pre-Advanced and Advanced Placement Courses – Intensive!

The College Board Advanced Placement (AP) Program is a cooperative educational endeavor between secondary schools, colleges, and universities. For students who are willing and able to apply themselves to college-level studies, the AP Program enriches their secondary and post-secondary school experiences. It also provides the means for colleges to grant credit, placement, or both to students who have applied themselves successfully. AP instructors have had training in the course design, which remains constant throughout the United States. Students who take Advanced Placement level coursework are expected to take the College Board Exam in May. Each Advanced Placement course has a corresponding exam that participating schools worldwide administer in May. Advanced Placement Exams represent the culmination of Advanced Placement courses, and are thus an integral part of the Program. As a result, our school fosters the expectation that students who enroll in an Advanced Placement course will go on to take the corresponding Advanced Placement Exam.

Juan Diego Academy …

Justice!
Devotion!!
Action!!!