

Juan Diego Academy

Catholic Regional High School



Justice + Devotion + Action

Course Catalog

2018-2019

Accredited by the Texas Catholic Conference Education Commission
and AdvancED.



VISION

Juan Diego Academy is a Christ-centered, Catholic learning community forming young men and women to answer the call to lead and be active participants in their Church and community.

MISSION

As a Catholic regional high school, Juan Diego Academy:

- Offers a quality, comprehensive academic curriculum
- Utilizes the latest in technology and innovation
- Educates the whole person: mind, body, and spirit
- Instills a sense of Christian Responsibility and service to others
- Trains leaders to meet the current and future challenges of society

Graduation Outcomes

In order to be successful in university studies, as well as in life, graduates of **Juan Diego Academy** will:

- participate in the faith life of their church—particularly in service to the least favored—in an active and informed manner;
- apply Roman Catholic teaching to the critical analysis of personal and social issues;
- speak and write English clearly and fluently for formal and informal communication;
- listen to and read English critically and thoughtfully, evaluating the validity of spoken and written arguments;
- utilize available technologies (computers, calculators and other data devices, the internet) as tools for research, word-processing, data management, multi-media presentations, and reference;
- communicate (orally and in writing) in a language other than English;
- use critical thinking skills, problem-solving skills, and scientific methods to form conclusions and apply them in real-life situations;
- apply a comprehensive understanding of our world - its geography, cultures, histories, and the natural and social processes that govern it - to the analysis of current events;
- conduct research, synthesize it, and evaluate it across disciplines;
- model the principles and techniques of proper fitness, wellness, teamwork, and good sportsmanship.

Statement of Philosophy

Juan Diego Academy is dedicated to giving students a Catholic-based, holistic education.

Religious and Spiritual Formation—Education in the doctrines, customs, and traditions of the Roman Catholic Church challenges students to see and appreciate the dignity of all persons as children of God. Catholic values are reflected throughout the curriculum: in daily prayer, religious instruction, weekly Mass, Christian ministry, and periodic retreats. In this environment of prayer and reflection, students are challenged to internalize their Christian beliefs and put them into practice. The centrality of religion to life is foundational.

University Preparation—Rigor, relevance, and relationship are hallmarks of a thorough, comprehensive, college preparatory program for the 21st century. Students are academically challenged with courses that emphasize the development of critical thinking skills, the integration of technology, an understanding of the relevance of what is being studied to life and career goals—all the while forming relationships between ideas and concepts across the curriculum. Students are equipped with the tools needed to be successful college students and life-long learners.

Educating the Whole Person—In addition to the religious and the intellectual, a truly Catholic education: builds character based on gospel values, promotes physical fitness and health, gives students the opportunity to exercise their aesthetic, kinesthetic, and artistic abilities, and involves them in competitive activities designed to foster growth in self-image, the importance of teamwork, sportsmanship, and the pursuit of excellence. These important concepts are addressed in various forms across the curriculum, particularly in competitive sports, fine arts, and extracurricular clubs and organizations.

A Christian Learning Community-- Educating the whole person requires more than excellent classroom instruction. For this reason, Juan Diego Academy continually strives to build a Catholic Christian community where each student is offered love, acceptance, discipline, and challenge. The witness of faculty, with the care, attention and respect shown to students, contributes significantly to this atmosphere. In turn, students are expected to treat faculty and each other in a similarly loving and respectful manner, responding to the Gospel mandate to, "...love one another as I have loved you." (John 15, 12).

Non-Discrimination Policy

Juan Diego Academy admits students of any race, color, and national or ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students of the school. It does not discriminate on the basis of race, color, national or ethnic origin in the administration of its participatory policies, admissions policies, and other school-administered programs.

Course of Study

Requirements for graduation from Juan Diego Academy include a minimum of 28 credits meeting the Texas Catholic Conference Education Department and Texas Education Agency guidelines:

Foundation High School Program with Endorsement in Multidisciplinary Studies (multiple endorsements, including STEM and Arts & Humanities are available)

Religion	4.0 credits	Health	0.5 credit
English	4.0 credits*	Fine Arts	1.0 credit
Mathematics	4.0 credits**	Physical Education	1.0 credit
Science	4.0 credits***	Communication App.	0.5 credit
Social Studies	4.0 credits****		
Spanish	2.0 credits		
Electives	3.0 credits ^		

* Required: English I, II, AP English Language, AP English Lit

**Required: Algebra I, II, Geometry, Pre-Calculus

***Required: Biology, Chemistry

****Required: World Geography or AP Human Geography, World History, AP U.S. History, AP Government, AP Economics

^may include online courses for high school or college credit

Endorsements Offered by Juan Diego Academy

STEM Endorsement	A coherent sequence or series of courses selected from one of the following: <ul style="list-style-type: none"> • CTE courses with a final course from the STEM career cluster • Computer science • Mathematics • Science • A combination of no more than two of the categories listed above
Multidisciplinary Studies Endorsement*	A coherent sequence or series of courses selected from one of the following: <ul style="list-style-type: none"> • Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence • Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics • Four credits in AP, IB, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts
Arts and Humanities Endorsement	A coherent sequence or series of courses selected from one of the following: <ul style="list-style-type: none"> • Social studies • The same language in Languages Other Than English • Two levels in each of two language in Languages Other Than English • American Sign Language (ASL) • Courses from one or two categories (art, dance, music, and theater) in fine arts • English electives that are not part of Business and Industry

* All students earn the Multidisciplinary Studies Endorsement as part of meeting JDA graduation requirements.

Advanced Placement Courses

Specially designated courses developed according to the College Board's *Advanced Placement Program* prepare qualified students to take the nationally administered *Advanced Placement Tests* for college credit. Our *Advanced Placement* courses currently include:

Course:	Offered to:
Biology	Seniors
Calculus AB	Juniors and Seniors
Chemistry	Juniors and Seniors
Macroeconomics	Seniors
English Language and Composition	Sophomores and Juniors
English Literature	Juniors and Seniors
Government	Seniors
Human Geography	Freshmen/Sophomores/Juniors/Seniors
Physics (I and II)	Juniors and Seniors
Psychology	Seniors
Spanish Language & Culture	Freshmen/Sophomores/Juniors/Seniors
Spanish Literature & Culture	Sophomores/Juniors/Seniors
United States History	Juniors

Every student in an Advanced Placement class is expected to take the AP® exam that is given in May. There is a fee for each exam. The school subsidizes part of the costs for these exams as it is able to. The amount of the subsidy for each student varies based on the number of AP® exams a student takes, as well as their financial need.

Course Load

All students must take a full course load and be present for all daily class periods. This means that students must enroll for a minimum of **7.0 credits** (*an independent study period may replace no more than one credit*). Seniors may complete their credit requirements from the electives listed in the course bulletin, or by taking an approved online course. Any exceptions to this policy must be approved by the Principal.

** AP is a registered trademark of the College Board*

Grading

Numeric grades are based on a 100-point scale. The grading scale at Juan Diego Academy is as follows:

A=	93-100
B=	85-92
C=	77-84
D=	70-76
F=	69 and below

The minimum passing grade is 70. To pass a course, a student must earn a minimum of 70 as the final grade in that subject. The highest grade which a student may receive for a quarterly, semester, or yearly course grade is 100.

Academic Honors

Quarterly Honors: Honor Roll students are recognized quarterly. *First Honors* are awarded to students who in a given quarter have earned a grade of **93** or higher in every course. *Second Honors* are awarded to students who in a given quarter have earned a grade of **90** or higher in every course.

Annual Honors: In the fourth quarter an Awards Assembly is held to recognize distinguished academic performance.

Graduation Honors: At graduation, the class *valedictorian* and *salutatorian* are honored. To qualify for this honor, a student must have attended Juan Diego Academy for two consecutive years (in their entirety). The *valedictorian* is the student with the highest cumulative grade point average in the class; the *salutatorian* is the student with the second-highest cumulative grade point average in the class. The selection of these students is determined on the basis of all courses taken and recognized by Juan Diego Academy during the four years of high school, up to and including the third quarter of senior year. A JDA Honor Cord is awarded to each graduate successfully completing seven (7) or more measures consisting of any combination of the following achievements:

1. Earn an additional endorsement as part of the school's graduation plan (1 measure per endorsement, not counting the Multidisciplinary Studies Endorsement that all students receive)
2. Receive a score of 3 or higher on an AP Exam (1 measure per AP exam with score of 3 or higher)
3. Earn a grade of B or higher on a dual enrollment course taken at JDA or on an approved college course taken for elective credit—online, or in person (1 measure per course taken and passed with a B or higher—prior administrative approval required for taking courses for college credit).

Success in Studies

The responsibility for school success lies principally with the student. Students must be well organized, keeping aware of and abreast with the short-term and long-term requirements of each of their courses.

ENGLISH

ENGLISH I Pre-AP - #1109

In this foundational English course for later AP work, students will explore the complimentary themes of coming of age and the quest for identity. The thematic focus of this course provides a platform to further develop critical thinking, and strong reading and writing skills. In reading and discussion of various texts—including short stories, poetry, novels, and films—both the meaning and form of the works will be explored, fostering a greater appreciation for literature. Throughout the course students will write in a variety of genres including personal narrative, reflection, and literary analysis. Vocabulary is further developed through the study of classical roots. **Credit: 1.0; full year course which fulfills the 9th grade English requirement.**

ENGLISH II Pre-AP - #1110

This course builds on the reading, writing, speaking, and listening concepts fostered in English I Pre-AP. Students are expected to plan, draft and complete written compositions for a variety of purposes on a regular basis. Students will also read extensively in multiple genres from world literature such as selected short stories, dramas, novels, poetry, non-fiction, and persuasive writing. Development of vocabulary and grammatical skills continued through exercises designed to prepare students for the rigor the AP English courses. Diverse literary selections taken from World Literature allow students the opportunity to further develop critical analysis and writing skills. Information literacy and MLA research skills are refined as projects become more complex. **Credit: 1.0; full-year required course for sophomores.**

ADVANCED PLACEMENT ENGLISH LANGUAGE/COMP. - #1112

The AP course in English Language and Composition 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. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. They will develop a broad working vocabulary and a greater appreciation of how language works. This course is designed to prepare students for the AP Language and Composition exam which they are expected to take in May. **Prerequisites:** Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full-year course which fulfills the junior year English requirement.**

ADVANCED PLACEMENT ENGLISH LITERATURE/COMP. - #1115

This advanced literature course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including the novel, short story, poetry, and drama. The focus of the course will be on intensive reading and discussion of the literature, as well as introducing secondary critical essays for discussion and evaluation. Emphasis will be placed on thoughtful and cogent analysis of the readings using a variety of theoretical frameworks and devices. The course is intended to provide students with an academic experience parallel to

that of a college level literature course. This course will also include a writing component that focuses on expository, analytical and argumentative writing about the literature through both discussion and essay format. Students are expected to be active readers as they analyze and interpret textual detail, establish connections among their observations, and draw logical inferences leading toward an interpretive conclusion. This course prepares students for the Advanced Placement Literature and Composition Exam administered each May. Students are expected to create, draft, and edit college-level analytical essays, write timed essays, and demonstrate advanced use and mastery of standard English.

Prerequisites: AP English Language & Comp. and departmental recommendation/administrative approval. **Credit: 1.0; Weight: 1.10; full-year course which fulfills the senior year English requirement.**

JOURNALISM - #1116

Students enrolled in this course will be involved in production and upkeep of the school's web site, including news, features, photography, and an online student newspaper. Emphasis will be on the development of journalistic skills, including the following: interviewing, note taking, news writing, editorial writing, feature writing, surveys, polls, reviews, and sports writing, as well as layout and design principles, headline writing, and caption writing. Opportunities for involvement in Diocesan and local newspapers/magazines will also be offered. Students will be expected to meet rigid deadlines. **Prerequisite:** Approval of the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement. This course may be taken multiple times for elective credit.**

YEARBOOK PUBLICATION/PHOTOJOURNALISM - #1117

The Lion is the annual school yearbook for Juan Diego Academy. Students in this course are the leaders and decision-makers who will produce a quality yearbook that reflects the pictorial history of the activities for the present school year. Among the myriad of activities to be accomplished: Develop a theme · Design cover, end sheets and title page that reflect the theme · Create master designs for each section · Create a workable ladder · Set up type specs and graphic elements for each section · Determine story ideas · Determine photo ideas · Set up story and photo assignments: "shoot to the shot" · Organize autographing party and distribution of book · Sell advertising · Finalize completed computer pages · Establish and meet publication deadlines. Edit pages Students will use computer programs such as Adobe InDesign and PhotoShop, Jostens Yearbook Avenue program and Excel to complete the tasks. In addition students will learn how to use a digital camera with zoom lens and scanners. They are also be responsible for producing an 8-10 minute video yearbook shown annually on JDA Awards Night in May.

Students will be expected to meet rigid deadlines. **Prerequisite:** Approval of the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement. This course may be taken multiple times for elective credit.**

COMMUNICATION APPLICATIONS - #1118

In this course, the student will study and apply all aspects of oral communication to become a more effective speaker and listener. Through project-based learning, students will develop the skills necessary to construct effective oral and visual communication forms and deliver them in front of an audience. Finally, students will develop listening skills and learn to constructively critique speeches given by their peers. **Credit: 0.5; required semester course normally taken by sophomores.**

CREATIVE WRITING- #1119

Through this course, students will analyze and evaluate the major styles and purposes for writing—from the simple essay to sophisticated technical writing—with the goal of improving one’s ability to communicate through the written word. Major emphasis will be placed on forms of writing that will prepare students for success in college, along with seeking to foster a life-long love for writing. As part of the course requirements, students will be expected to write features for the school yearbook, web site, and literary magazine.

Prerequisite: 85 average in English and instructor approval in consultation with the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement.**

FINE ARTS

TWO DIMENSIONAL DESIGN - #1602

This course has an emphasis on the basics of two dimensional design, drawing, painting, and printmaking. Students will also study the elements of design, as organized by the principles of design. Students will have the opportunity to work on individual and group projects and will gain experience in critiquing their own art and that of others. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement.**

THREE DIMENSIONAL DESIGN - #1603

This course has an emphasis on the basics of three dimensional design, ceramics, crafts, and sculpture. Students will study the elements and principles of design as it relates to form. Students will have the opportunity to work on individual and group projects and will learn to critique their own art and that of others. **Prerequisite:** Two Dimensional Design. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement.**

ART PORTFOLIO - #1604

The Art Portfolio course is designed for students who wish to pursue careers in the arts or in art-related fields such as architecture, landscape design, fine arts, or design. Students will experience an independent course of study under the direction of the instructor in order to produce a consistent body

of work to be submitted with their college applications. Students are particularly encouraged to consider enrolling in this as juniors in order to prepare their portfolios for use with their college applications. **Prerequisite:** Two Dimensional Design and Three Dimensional Design or approval of the instructor in consultation with the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement. This course may be taken multiple times for elective credit.**

INTRODUCTION TO THEATRE ARTS - #1606

This course is designed as an introductory study of the theatre arts that surveys the total art form. The intention of this course is to develop understanding and enjoyment of theatre and how it operates as a unit. Students will study the elements of theatre and examine how they work together to bring magic and enjoyment to a live audience. The course will cover the following topics: theatre history, the director and producer in professional theatre, the performance space, technical theatre, and acting. In addition to the regular class time, students are expected to participate in at least one JDA theatrical production during the school year as well as attend two theatrical performances and write critiques of the theater performances. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement.**

INSTRUMENTAL ENSEMBLE - #1612

This course explores instrumental music from a wide variety of cultures and time periods through study and performance. It is designed to teach team work, self-discipline, and develop higher level thinking skills necessary to express one's self through God's gift of music. The core curriculum emphasizes the basics of instrumental technique (technical facility, tuning, tone production, critical listening), sight-reading, music theory, and music history. In addition to the regular class time, students are expected to attend periodic after school and evening rehearsals which are scheduled as necessary, and to participate in one evening concert each quarter as a major part of their grade. **Prerequisite:** Approval of the instructor in consultation with the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement. This course may be taken multiple times for elective credit.**

CHOIR - #1613

This course explores choral music from a wide variety of cultures and time periods through study and performance. It is designed to teach team work, self-discipline, and develop higher level thinking skills necessary to express one's self through God's gift of music. The core curriculum emphasizes the basics of vocal technique, sight-reading, music theory, and music history. In addition to the regular class time, students are expected to attend periodic after school and evening rehearsals which are scheduled as necessary, and to participate in one evening concert each quarter as a major part of their grade. The students are expected to participate in the liturgical ensemble at weekly mass and other performances as scheduled as a part of the requirement of being in this class. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement. This course may be taken multiple times for elective credit.**

MUSIC APPRECIATION - #1614

This dual enrollment course with South Texas College introduces the student to the elements, forms, and stylistic eras in music through the study of cultural periods, major composers, and music elements. **Prerequisite:** TSI complete in Reading, or equivalent; Approval of the Dean of Instruction. **Credit: 1.0; full year elective course for Arts and Humanities Endorsement.**

DANCE I - #1615

This course is an introduction to the genres of ballet, tap, modern, and ethnic dance presented in cultural and historical context. Learning the vocabulary, principles and elements of each style is essential and will be emphasized throughout this course. Dance I focuses primarily on students' development of kinesiology, technical facility, spatial expressiveness, as well as personal creativity. **Credit: 1.0, full-year elective course for Arts & Humanities Endorsement.**

MATHEMATICS**ALGEBRA I Pre-AP– #1207**

This course presents to the student the study of real numbers, equations, and inequalities in one variable, polynomials, systems of linear equations and inequalities, relations and functions, exponents and radicals, and an introduction to quadratic equations. Problem solving and graphing are also included. **Credit: 1.0; full-year required course for freshmen who did not take Algebra I in 8th grade.** *Note: eighth grade students who have not demonstrated mastery of Algebra I concepts may, upon departmental recommendation and administrative approval, be required to repeat Algebra I in grade nine.*

GEOMETRY Pre-AP - #1208

Geometry stresses the basic structure of a mathematical system and proficiency in developing proofs. The course includes concepts of space geometry integrated with plane geometry, the review and use of algebraic skills, and units on trigonometry, area and volume, constructions, coordinate geometry, and transformations. **Prerequisite:** Algebra I Pre-AP *Note: eighth grade students who successfully passed a Pre-Algebra course with a final grade of 90 or above may take Geometry prior to Algebra I upon departmental recommendation and administrative approval.* **Credit: 1.0; full-year required course for freshmen or sophomores.**

ALGEBRA II - #1210

With an emphasis on equation solving and the application of equations to problem solving, the course includes the following among its topics: relations, functions, linear equations, polynomials, rational expressions, irrational numbers, quadratic equations, and an introduction to trigonometry and conic sections. **Prerequisite:** Algebra I, Geometry *Note: students who have demonstrated mastery of Algebra I concepts may take Algebra II prior to Geometry upon departmental recommendation and administrative approval.* **Credit: 1.0; full-year required course for sophomores or juniors.**

PRE-CALCULUS - #1213

This course provides students with a firm foundation in the theory and use of functions and their graphs. Polynomial, rational, piece-wise, exponential, and logarithmic functions are explored. A comprehensive treatment of trigonometry which deals with the trigonometric functions, their graphs, and solutions of right and oblique triangles is included. An introduction to Calculus is included. This includes limits, derivatives (numerical) and integrals (numerical). **Prerequisite:** Algebra II. **Credit: 1.0; a full-year required course for juniors or seniors.**

CALCULUS I - #1216

Calculus includes the algebraic study of functions and their graphs. Limits and their applications, derivatives, anti-derivatives and the integration of the algebraic and trigonometric functions will be covered. Applications of derivatives and anti-derivatives will also be covered in this course. **Prerequisite:** Pre-Calculus. **Credit: 1.0; full-year course for juniors or seniors.**

ADVANCED PLACEMENT CALCULUS AB - #1218

Calculus includes the study of functions and graphs. Limits, derivatives, and antiderivatives – integrals of algebraic, trigonometric, exponential, and logarithmic functions, and their applications are treated. Numerical derivatives and integrals, and infinite series are also included. The study of calculus is extremely demanding in class application, and it requires daily, lengthy study and homework time. Content of the course will be supplemented by College Board AP material. Students are expected to take the College Board's Advanced Placement examination in May. **Prerequisite:** a cumulative mathematics average of 85 percent and/or departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full-year course for juniors or seniors.**

ADVANCED PLACEMENT CALCULUS BC - #1210

As a continuation of Calculus AB, Calculus BC views more theoretical aspects of Calculus. Topics associated with the course are: Transcendental Functions, Differential Equations, Integration Techniques, L'Hopital's Rule, Improper Integrals, Special Sequences, and Special Series. Students are expected to take the College Board's Advanced Placement examination in May. **Prerequisite:** AP Calculus AB plus a cumulative mathematics average of 85 percent and/or departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full-year course for seniors.**

ELEMENTARY STATISTICS - #1222

This course introduces the student to statistics, both descriptive and inferential. Topics include measure of central tendency and dispersion, combinations, permutations, probability, probability distribution, the Central Limit Theorem, estimation, test hypothesis, correlation, and regression. **Prerequisite:** Pre-Calculus. **Credit: 1.0; full-year elective course for STEM Endorsement.**

ROBOTICS - #1221

A beginning course in the field of robotics, its objective is to introduce the student to basic programming as well as problem solving strategies. This course 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. Student designed robots will be programmed to compete at HESTEC and in the FIRST robotics competition. The course will conclude with an introduction into programming used in developing video games. **Prerequisites:** Current or previous enrollment in Physics I and Pre-

Calculus. Credit 1.0; Weight: 1.0; full-year course typically for juniors and seniors not wishing to take an AP-level math course, or who wish to take this course for elective or STEM Endorsement.

PHYSICAL EDUCATION

FOUNDATIONS OF PERSONAL FITNESS - #1807

This course represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach an optimal level of health, is the cornerstone of this course and is exemplified by one of the course objectives, namely, having the students design their own personal fitness program. Students are required to dress out daily in the school's physical education uniform. **Credit: 0.5; one-semester required course for freshmen.**

HEALTH - #1809

This course presents various facets of maintaining personal and family well-being in such topics as physical growth, anatomy, family life and sex, nutrition, emergency care, first aid, major serious diseases, communicable diseases, and substance abuse. **Credit: 0.5; one-semester required course for freshmen.**

TEAM SPORTS- #1805

An integral part of a total education, this course meets the needs of students and helps them to strive both individually and in groups. Fitness conditioning, aerobic conditioning, and skills in a series of specific sports and physical activities are explained, demonstrated, practiced, and utilized by the students. Knowledge of rules, strategies, and skill techniques are taught by lecture, demonstration, experience, and testing. The course aims at developing in students an appreciation for and a desire to continue physical activity throughout life. Students are required to dress out daily in the school's physical education uniform. **Prerequisite:** Foundations of Personal Fitness. **Credit: 0.5; one-semester course.**

ATHLETICS- #1811

Designed for the student who is seriously pursuing excellence in athletics, this course will combine modern principals of in and off-season training with practical preparation for engaging in team and individual competitive athletics. Students will be guided to develop their own personal training and fitness regimen that will be supervised and evaluated by the instructor/members of the JDA coaching staff. Through this interaction, student-athletes will be guided and challenged to appreciate the giftedness and sacredness of the human body and all that it is capable of. **Prerequisite: Approval of the Athletic Director in consultation with the Dean of Instruction. Credit: 0.5; one-semester course. This course may be taken multiple times for required PE or elective credit.**

RELIGION

The Juan Diego Academy Religion Department course offerings are consistent with the Doctrinal Elements of a Curriculum Framework for the Development of Catechetical Materials for Young People of High School Age (United States Conference of Catholic Bishops, 2008)

RELIGION I: SACRED SCRIPTURE AND THE PERSON OF JESUS - #1003

This course is aimed at introducing students to the Old and New Testaments, especially as they apply to an understanding of the person of Jesus Christ and the unfolding of salvation history. Contemporary Catholic perspectives and practices will be discussed. Students will consider the concepts of revelation, culture, and literary forms as they relate to understanding and reading the Bible through a Catholic perspective. **Credit: 1.0; full-year required course for freshmen.**

RELIGION II: SACRAMENTS AND CHRISTIAN MORALITY - #1004

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. **Credit: 1.0; full-year required course for sophomores.**

RELIGION III: CHRISTIAN LIFE IN SOCIETY - #1005

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.

Credit: 1.0; full-year required course for juniors.

RELIGION IV: CALLED TO MINISTRY - #1007

This course acts as a synthesis of a high school student's journey of faith at JDA and directly responds to our school's vision of "forming young men and women to lead and be active participants in their Church and community." Students are involved both academically and experientially in a lived experience of ministry both within the Juan Diego Academy community and through the larger Church, coming to an understanding of what ministry is and actively participate in it by preparing and coordinating the school's Masses, retreat program, 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. During the spring semester, students will reflect on vocations in the Church, Catholic prayer and spirituality, as well as prepare to use their ministry skills in college/university life. Through prayerful reflection, students will be challenged to take what they have learned and live it out in service to the church and the global community. Involvement in ministry outside of the school is expected, over and above the Christian Ministry hours required for graduation. **Credit: 1.0; full-year required course for seniors.**

SCIENCE

BIOLOGY Pre-AP - #1305

Pre-AP Biology prepares students to enter AP Biology and is designed to be an introductory biology course preparing students for college-level work. The course focuses on developing a fundamental understanding of biology and fostering strong abilities in applying biological concepts to real-world scenarios. The curriculum is taught in two semesters. The primary objective of the course is to provide students with a fundamental understanding of modern biology and scientific processes, building a foundation for success in the college level AP courses to follow. Students in biology will study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy, metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment.

Credit: 1.0; full-year required course for freshmen.

CHEMISTRY Pre-AP - #1308

Pre-AP Chemistry prepares students to enter AP Chemistry and is designed to be an introductory chemistry course preparing students for college-level work. The course focuses on developing a fundamental understanding of chemistry and fostering strong abilities to use chemical calculations effectively. Further, emphasizes chemical calculations and the mathematical formulation of chemistry principles is emphasized. Lab experiences in the course are typical of first year college introduction to chemistry courses and focus on quantitative aspects of chemistry. Students enrolled in Pre-AP Chemistry will study a variety of topics that include: scientific measurement, characteristics of matter, atomic structure and bonding, chemical nomenclature, chemical equations, stoichiometry, the states of matter, thermochemistry, behavior of gases, chemical periodicity, reaction rates and equilibrium, solutions, acids and bases, neutralization and salts, redox-reactions, nuclear fusion and fission. Students will investigate how chemistry is an integral part of our daily lives.

Credit: 1.0; full-year required course for sophomores.

ADVANCED PLACEMENT BIOLOGY - #1307

The AP Biology course is designed to be the equivalent of a college introductory course taken by first year biology majors. The coursework and laboratory assignments are equivalent to those conducted at the college level. The AP Biology course aims to provide students with factual knowledge in a conceptual framework and is designed to be taken by students after successful completion of a first course in high school biology and high school chemistry. In accordance with the College Board guidelines, the topics within the course cover these three main areas: molecules and cells, heredity and evolution, and organisms and plants. Students will be expected to take the AP Biology examination in May. Any student seriously considering a career in science or any health-related profession should consider enrolling in this course.

Prerequisites: Biology, Chemistry; Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; A full-year course for juniors or seniors.**

ADVANCED PLACEMENT CHEMISTRY - #1310

This course is designed to be the equivalent of the general Chemistry course usually taken during the first year of college and meets the objectives prescribed by the AP Chemistry Course description published by The College Board. A primary goal of the course is to attain a depth of understanding of fundamental concepts and a reasonable competence in dealing with general chemistry problems. The course develops the student's abilities to think critically and analytically and to express his/her ideas, orally and in writing, with clarity and logic. Students will be expected to take the AP Chemistry examination in May. Any student seriously considering a career in science, engineering, or a health-related profession should enroll in this course. **Prerequisites:** Biology, Chemistry, concurrent enrollment in Calculus preferred; Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; A full year course for juniors or seniors.**

ADVANCED PLACEMENT PHYSICS I (Algebra-based)-#1314

In this introductory college-level Physics course, students are introduced to the concepts of Newtonian mechanics (including rotational motion), work, energy, power, mechanical waves and sound, as well as introductory simple circuits. Through inquiry-based investigations both in and outside the lab, students will gain a greater appreciation of the interactions in the physical world around them. Students will be expected to take the AP Physics I examination in May. Any student seriously considering a career in engineering or the physical sciences and related areas should consider enrolling in this course. **Prerequisites:** Biology, Chemistry, Algebra I, Algebra II; Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full year course for juniors or seniors.**

ADVANCED PLACEMENT PHYSICS II (Algebra-based)-#1315

Building on the foundation laid in AP Physics I, students in this college-level course will investigate fluid statics and dynamics, thermodynamics with kinetic energy, PV diagrams and probability, electrostatics, electrical circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics, and be introduced to quantum, atomic, and nuclear physics—all in an inquiry-based approach with investigations both within and outside the lab environment. Students are expected to take the AP Physics II examination in May. **Prerequisite:** Successful completion of AP Physics I; Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full year course for seniors.**

HUMAN ANATOMY & PHYSIOLOGY - #1316

This course is designed to give students an in-depth introduction to the anatomy and physiology of the human body. It will provide students with an opportunity to study the structures and functions of several important organ systems, from the molecular level to the level and interactions of the entire body. The student will learn how the body functions, how to maintain its normal functions, and the consequences of injury and disease. Students will come to understand the interrelationships among the various organ systems, which maintain a healthy functioning individual. Important lifestyle and health related issues will be stressed, providing students with important information to be applied in their own lives.

Prerequisites: Biology, Chemistry. **Credit 1.0; Weight: 1.0; full-year course for juniors and seniors not wishing to take an AP-level science course, or who wish to take this course for elective or STEM Endorsement.**

SOCIAL STUDIES

ADVANCED PLACEMENT HUMAN GEOGRAPHY -#1413

AP Human Geography presents high school students with the curricular equivalent of an introductory college-level course in human geography or cultural geography. Content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction. **Credit: 1.0; full-year required course for freshmen. Weight: 1.10**

WORLD HISTORY - #1404

This course focuses on the major historical events, individuals, patterns and trends in world history. Attention is directed to the ancient and classical civilizations, the Middle Ages, Renaissance and Reformation in Europe, the Age of Revolution, and the development of modern nations. Introductions to Asian, African, and Latin American cultures encourage an appreciation of the diversity and richness of the human experience. **Credit: 1.0; full-year required course for sophomores.**

UNITED STATES HISTORY SINCE 1877 - #1406

Building on the foundations of United States History 8 and World History, this course examines the history of the United States in the late nineteenth and twentieth centuries. Students are encouraged to view the country's history in a global context, as they analyze the emergence of the United States as a world power, major economic and political developments, and the great social and cultural movements of the time. **Credit: 1.0; full-year required course for juniors not taking the Advanced Placement U.S. History course.**

ADVANCED PLACEMENT U.S. HISTORY - #1415

AP American History is designed to offer motivated students a more challenging course in American History from colonial times to the present. Students will read and write extensively on selected themes and will regularly analyze and interpret a variety of primary sources. The program will prepare participants for the Advanced Placement Examination in May which students will be required to take and through which they can receive university credit. **Prerequisite:** Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full-year required course for juniors.**

AMERICAN GOVERNMENT - #1411

As a study of the organization and functioning of local, state, and federal governments, this course emphasizes the current realities of government operation and the interplay between social change and government. The United States Constitution and the Texas Constitution are studied. Current events are studied on a continual basis to reinforce course objectives and challenge students to take what they have learned and apply it to the world around them. **Credit: 1.0; full-year required course for seniors not taking the AP-level course.**

ADVANCED PLACEMENT AMERICAN GOVERNMENT - #1432

Honors American Government is designed to offer motivated students a more challenging course in American Government. This course is as outlined for the regular American Government course, but with more rigorous in-depth treatment of the different topics, including experiential assessments such as mock trials. Students will read and write extensively on selected themes and will regularly analyze and interpret a variety of primary sources utilizing current events. **Prerequisite:** Departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full year required course for seniors**

ECONOMICS - #1409

This is an introduction to the basic concepts of economics. The course considers the role of the individual as a consumer and producer, and investigates the importance of money and banking, pricing, the gross domestic product, the free enterprise system, principles of the market, and the government influences on the economy. Alternative economic systems are also studied. Included in this course is an overview of the basics of personal finance, as well as other important economic and personal management tools to prepare students for entry into the world of college and career. **Credit: 1.0; full-year required course for seniors not taking the AP-level course**

ADVANCED PLACEMENT MACROECONOMICS - #1410

AP Economics is designed to offer motivated students a more challenging critical-thinking course in Economics. This course is as outlines for the regular Economics course, but with more rigorous in-depth treatment of the various topics. Students will read and write extensively on selected themes and will regularly analyze and interpret a variety of primary sources. In addition, students will have study personal financial literacy and fiscal responsibility and college survival skills **Prerequisite:** Department recommendation and administrative approval. **Credit: 1.0; Weight 1.10; full-year required course for seniors.**

ADVANCED PLACEMENT PSYCHOLOGY- #1435

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena including: human social behavior, personality, psychological disorders and treatment, learning, memory, human development, biological influences, and research methods. Related topics may include sensation, perception, states of consciousness, thinking, intelligence, language, motivation, emotion, stress and health,

cross-cultural psychology, and applied psychology. Students will also be introduced to the ethics and methods psychologists use in their science and practice. **Prerequisites:** AP Human Geography or World Geography, World History, and Advanced Placement U.S. History. **Credit: 1.0; Weight 1.10; full-year elective course for juniors and seniors.**

WORLD LANGUAGES

SPANISH

SPANISH I - #1503

This course provides an introductory program for beginners who are non-Spanish speakers. The introductory course helps students attain an elementary proficiency in the four basic skills – listening, speaking, reading, and writing. These skills are developed through the study of the phonological system, grammatical structures, basic communication and vocabulary in a sequential manner. This course also implements religion, art and Spanish history in its program and it emphasizes the influence of this culture in America.

Credit: 1.0; full year course for monolingual learners that satisfies the first year of the World Languages requirement.

SPANISH II - #1504

This course is a comprehensive review of the topics presented in Spanish I. It is offered to introduce new structural elements, verb tenses, and functional vocabulary. This course will allow students to pursue proficiency in listening, speaking, reading, writing and higher-level communication in the language. This course also implements religion, art and Spanish history in its program and it emphasizes the influence of this culture in America. **Prerequisite:** Spanish I or departmental recommendation based on placement exam. **Credit: 1.0; full-year course that satisfies the second year of the world languages requirement for monolingual learners.**

SPANISH III - #1505

This course offers the student a solid review of the topics presented in Spanish II while focusing on advanced Spanish grammar, structural elements of grammar and stylistics, syntax, oral communication, and the assimilation of culture and literature. It also presents the great influence Catholicism has had in the development of the American continent. **Prerequisite:** Departmental recommendation based on placement exam. **Credit: 1.0; full-year course that satisfies the first or second year of the world languages requirement for students in Course of Study I; leads to Arts & Humanities Endorsement for students in Course of Study II.**

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE - #1507

This course is designed to offer students with strong Spanish language skills an opportunity for a highly challenging curriculum. Extensive reading, writing, and critical thinking and analysis are required to prepare the students for the Advance Placement Language examination that they are required to take in May. Successful completion of the Advanced Placement Exam may earn the student college credit. The language course prepares the students in verb functions and applications, idiomatic expressions, reading comprehension, and both speaking and listening skills. The course also exposes students to the study and comprehension of the influence of religion, art, and music in Spanish culture.

Prerequisites: Honors Spanish and/or departmental recommendation and administrative approval. **Credit 1.0; Weight: 1.10; full-year course that satisfies the first or second (bilingual) or the third or fourth year (monolingual) of the world languages requirement, as well as the Arts and Humanities Endorsement, depending on the student's course of study.**

ADVANCED PLACEMENT SPANISH LITERATURE AND CULTURE - #1508

This course is designed to offer students with strong Spanish language skills an opportunity for a highly challenging curriculum. Extensive reading, writing, and critical thinking and analysis are required to prepare the students for the Advanced Placement Spanish Literature Examination that they are required to take in May. Successful completion of the Advanced Placement Exam may earn the student college credit. The literature course requires extensive writing and reading of both contemporary and classical writers. Historical and religious themes are explored and analyzed in order to more fully comprehend and appreciate the literary material covered in the course.

Prerequisites: AP Spanish Language and/or departmental recommendation and administrative approval. **Credit: 1.0; Weight: 1.10; full-year course that satisfies the second or third year (bilingual), or the third or fourth year (monolingual) of the world languages requirement, as well as the Arts and Humanities Endorsement, depending on the student's course of study.**

MIDDLEBURY INTERACTIVE LANGUAGES

Through this interactive program, students will have the opportunity to study a selected language online for high school credit. Courses are grounded in the development and integration of the four key language skills: listening, speaking, reading and writing. Students are introduced to vocabulary themes, grammar concepts, sentence structure and culture through explicit instruction, guided learning and adaptive pacing. Opportunities to apply language in common situations along with highly interactive activities are designed to reinforce skills in differing contexts and build foundational language knowledge. The use of authentic materials helps build student confidence and comfort in the target language (*from <http://middleburyinteractive.com>*) Students may choose from the following languages:

- Chinese #1523
- French #1525
- German #1527
- Latin #1529

Prerequisites: Completion of three credits of Spanish (Course of Study I), or two credits of Spanish (Course of Study II); departmental recommendation and administrative approval. **Credit: 1.0; full-year elective course.**

NON-DEPARTMENTAL

SAT-ACT PREP #1901

This one-semester course is designed as an overview of the skills applicable to achieving top scores on the SAT and ACT tests. Through taking and evaluating practice tests, reviewing supplemental materials, and participating in skills projects, students will receive valuable test-taking strategies, knowledge building strategies, and critical thinking skills that will improve their test scores.

Credit: 0.5; one-semester elective course

Juan Diego Academy High School Degree Plan

Name: _____ SID: _____
(Last) (First)

Date: _____

Endorsements selected: **STEM**
 Graduation _____
 Date of Graduation _____

Multidisciplinary

Arts and Humanities
 requirements _____

9th FRESHMAN

	Fall		Spring	
Religion I				
English I/II Pre –AP				
Math				
Biology Pre-AP				
Spanish I				
AP Human Geography				
Physical Education				
Health				
Fine Arts				

10th SOPHOMORE

	Fall		Spring	
Religion II				
English II Pre-AP**				
Math				
Chemistry Pre-AP				
Spanish II***				
World History				
Physical Education				
Comm. App.				
Elective				

Summer			

Summer			

11th JUNIOR

	Fall		Spring	
Religion III				
English Lang. AP				
Pre- Calculus AP*				
Science-				
U.S. History AP				
Elective				
Elective				
Elective				

12th SENIOR

	Fall		Spring	
Religion IV				
English Lit. AP				
Calculus AP				
Science-				
Economics AP				
Government AP				
Elective				
Elective				

Summer			

IOWA _____
 TSI _____
 PSAT 9th _____
 PSAT 10th _____
 PSAT 11th _____
 ACRE 11th _____
 SAT _____
 ACT _____