



Course Catalog

2011-12

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MISSION AND PHILOSOPHY

The Mission of Villanova Preparatory School

In the Augustinian tradition, the Mission of Villanova Preparatory School is to graduate mature young adults of diverse backgrounds who reflect the qualities of truth, unity, and love. The school does this by providing a challenging college preparatory curriculum and Catholic environment that promote the development of mind, heart and body. These young adults will think, judge, and act in ways that are sound and in keeping with the teachings of Jesus Christ.

PHILOSOPHY AND PURPOSE

Villanova is a non-profit Roman Catholic high school operated under the auspices of the Western Province of the Order of St. Augustine. Located in the Ojai Valley, it is a co-educational, college preparatory school, offering both boarding and day programs for grades 9-12, and a program of English as a Second Language.

Villanova Preparatory School strives to display the characteristics that mark it as an Augustinian school as stated in the Educational Mission Statement of the Schools of the Province of St. Augustine. These characteristics include an emphasis on the primacy of love, a dedication to seek the truth, a fostering of tradition, a desire to serve a diverse population, and a commitment to build community among our faculty, students, staff, parents, and alumni.

The School serves students who indicate their desire to succeed in a strong academic curriculum. Following the liberal arts tradition, the curriculum aims at preparing each student for admission to a university. The curriculum acknowledges the traditions of Western Civilization and places particular emphasis on Judeo-Christian values and teaching. The program of studies seeks to provide the student with necessary skills for a successful life in a world of rapid technological and social changes. The School emphasizes effective oral and written communication, study skills, critical and interpretive thinking, and the ability to make rational, informed judgments.

To help students become mature citizens of the City of God, Villanova provides religious instruction that is true to Catholic doctrine and which echoes the teachings of St. Augustine. In addition, the School strives to give non-Catholic students an understanding of Catholicism and helps them nurture their own spiritual development.

As a community in which students, teachers, and parents share in the life of the Holy Spirit, the School tries to foster spirituality for each individual that promotes a concern for issues of charity, Christian service, and justice in daily life.

Villanova recognizes that parents are the primary educators of their children. Therefore, Villanova encourages their full cooperation in their children's education.

Villanova attempts to educate the whole person. As a result, it provides students with extracurricular programs and athletic activities that challenge, inspire, and develop sound

bodies and minds. All activities at Villanova seek to promote social responsibility and teach students how to work harmoniously with others in achieving common goals.

By creating a positive and caring environment for both resident and day students, Villanova promotes learning, love, unity, and respect for others as primary considerations. The School's ultimate desire is to graduate students who think, judge, and act in ways which are sound and in keeping with the teachings of Jesus Christ. In the Augustinian tradition, we also desire to graduate young adults who express to the world the qualities of love, truth, and community.

Expected Schoolwide Learning Results (ESLRs)

The Villanova Preparatory School Community prepares young men and women to live in both the City of God and the City of Man. It is intent upon developing the mind, body, and heart of young men and women. A Villanova graduate is ideally:

- I. A person educated in Christian values who
 - shows love of God, self, and others through commitment to family and community
 - has a strong sense of self-worth and conducts her/himself within a truthful, moral code
 - gives service to the Villanova and extended community
 - understands and acknowledges the teachings of Jesus Christ while being respectful of other religions and cultures
 - promotes justice for all
 - seeks to grow in prayer and spirituality.

- II. A critical and conceptual thinker who
 - demonstrates a mastery of Villanova's core curriculum
 - thinks logically and makes sound choices while remaining open to new challenges and change
 - can read, comprehend, analyze and evaluate increasingly complex material
 - can access, evaluate, and use information and is innovative and confident in solving problems
 - can effectively apply and synthesize material and skills developed across the curriculum
 - can efficiently use and adapt to changing technology
 - can apply knowledge and skills in an innovative manner.

- III. An effective communicator who
 - reads, writes, listens and speaks effectively
 - clearly expresses ideas and thoughts supported by rationale, while remaining open to other points of view
 - organizes material for presentation to various diverse audiences.

- IV. A self-directed learner who
 - has developed effective time management skills
 - has a sense of intellectual curiosity and a love of learning

- is able to set priorities and achieve goals
- has the necessary skills needed to continue learning
- is able to adapt effectively to changing conditions and situations
- is aware of the importance of a healthy lifestyle.

V. A team player and/or leader who

- exemplifies Villanova's core values of charity, community, and truth
- is able to set goals, provide positive direction, and build consensus as a member of a group or team
- demonstrates teamwork and cooperation
- can accept and give compliments and constructive criticism with grace.

VI. A socially and globally aware person who

- understands and lives gospel values
- values and appreciates diversity in his/her society and other cultures
- is a good citizen who is committed to social justice and community
- takes personal responsibility for the good of all
- understands and values the democratic process
- understands and participates in the political process.

General Information

Each student must take seven courses each semester. In selecting courses students are cautioned against "overloading" themselves. This can happen by taking too many honors or Advanced Placement classes, which will demand more time of the student, while at the same time participating in a variety of extracurricular activities and activities outside of school. Students are encouraged to be realistic about the demands that academics, sports and other activities place on them, and are urged to find a balance between a challenging course load and allowing time for other activities in which they choose to participate.

Because of scheduling conflicts, it is sometimes necessary to change the courses selected by a student.

Summer School

Students wishing to fulfill a graduation requirement during a summer session must obtain approval of that course in writing from the Assistant Head of School for Academics prior to enrollment, if the course is to be counted toward graduation requirements. This policy is to ensure that a student taking a course during summer school is taking a course equal to the content and challenge of a Villanova course. The student must have the off-campus institution send an official transcript with a grade for the class to Villanova when the course has been completed.

D's & F's in Core Courses

A student who receives a D or F in a core course (one required for graduation) at the end of a semester must make up that grade by repeating the course. A student who receives a "D" in any course is encouraged to repeat the course as required by colleges and universities. When a

course is made up both grades will appear on the transcript and will be computed into the cumulative GPA.

Advanced Placement Classes

Advanced Placement classes require a strong commitment from the student to meet the challenges of a college level class. AP courses are designed for those students prepared to handle intellectual challenges beyond those offered in a regular Villanova course. AP classes demand a commitment of study time greater than a regular or honors Villanova class. Each Villanova AP course has pre-approval enrollment requirements specific to that course. Students enrolled in AP classes are required to take the AP exam for that class. A separate AP Agreement must be submitted by the student.

Honors Classes

Like Advanced Placement classes, Honors classes require a strong commitment from the student to meet the demands of a course that is more challenging than a regular Villanova course. Students in Honors classes are expected to make the commitment of additional time required to complete the course curriculum. The current class teacher makes recommendation for all Honors courses. Placement is subject to the approval of the Assistant Headmaster for Academics.

Weighted Grades

Advanced Placement and Honors Courses are weighted. One point is added to each grade when calculating the GPA: therefore an “A” is 5 points rather than 4, and a “B” is 4 points rather than 3. However, a grade of “D” is not weighted and receives 1 point. Please note that not all colleges will accept Honors classes for the additional point.

Schedule Changes

All schedule changes are processed through the Assistant Headmaster for Academics and should take place within the first week of the new semester. As the schedule is set in June, not all schedule requests may be granted. Seniors must also have the approval of the College Counselor for all schedule changes.

Villanova Graduation Requirements

SUBJECT	REQUIREMENT
English	4 years
Mathematics	3 years (4 recommended)
History/Social Science	3 years
Science	3 years (2 one-year lab sciences)
Foreign Language	3 years (all in same language)
Religion	4 years
Electives	3 courses of 2 semesters each
Introduction to Writing	1 semester
Speech	1 semester
Fine Arts	2 semesters of UC approved Visual & Performing Arts (both in same discipline)
Physical Education/Health	1 year (one semester of each)

Community Service	Meet yearly requirements
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**Entrance Requirements for the University of California
& California State University Systems**

SUBJECT	REQUIREMENT
A. History/Social Science World History, Cultures or Geography (1 year); and US History (1 year) or US History (1/2 year) and Civics/American Government (1/2 year).	2 years
B. English	4 years
C. Mathematics	3 years (4 recommended)
D. Laboratory Science	2 years (3 recommended)
E. Language other than English (2 years of the same language)	2 years (3 recommended)
F. Visual and Performing Arts	1 year
G. College Preparatory Elective Courses Must be chosen from the following areas: visual and performing arts, history, social science, English, advanced mathematics, laboratory science, social science, and language other than English.	1 year
Of the 15 units (30 semesters) required for admission, at least seven must have been taken in the junior and senior years.	

The CSU requires a 15-unit pattern of courses for admission as a first-time freshman. Each unit is equal to a year of study in a subject area. A grade of C or higher is required for each course you use to meet the subject requirement.

AREA	SUBJECT	YEARS
a.	History and Social Science (including 1 year of U.S. history or 1 semester of U.S. history and 1 semester of civics or American government and 1 year of social science)	2
b.	English (4 years of college preparatory English composition and literature)	4
c.	Math (4 years is recommended) including Algebra I, Geometry, Algebra II, or higher mathematics (take one each year)	3
d.	Laboratory Science (including 1 biological science and 1 physical science)	2
e.	Language - other than English (2 years of the same language; American Sign Language is applicable)	2
f.	Visual and Performing Arts (dance, drama or theater, music, or visual art)	1

g.	College Preparatory Elective (One more year of any college preparatory subject)	1
Total Required Subject		15

http://www.csummentor.edu/planning/high_school/subjects.asp

ENGLISH DEPARTMENT

STUDENTS MUST COMPLETE EIGHT SEMESTERS OF ENGLISH, PLUS ONE SEMESTER OF SPEECH AND ONE SEMESTER OF INTRODUCTION TO WRITING, IN ORDER TO RECEIVE A VILLANOVA DIPLOMA *

*Transferring and ESL students may, in some circumstances, and with permission of the Assistant Headmaster for Academics, have the Introduction to Writing and/or Speech requirement waived.

English 9: The purpose of this course is to challenge each student in his/her verbal and written skills through the exercise of reading and writing. Each student will be encouraged to expand his/her writing style through the study of grammar, vocabulary and prose models. This course provides a survey of various literary genres, challenging each student to raise his/her level of reading comprehension and appreciation of artistic expression. Student essays and research projects utilize MLA (Modern Language Association) formatting. English 9 is part of the integrated technology program at Villanova.

Semesters: 2 Grade Level: 9 Required for Graduation: Yes

Introduction to Writing: Students will be introduced to the fundamental elements that contribute to producing effective written materials that are appropriate to a given audience and genre. Primarily structured as a writing workshop, the course will require students to submit written material each week. Students will write five-paragraph expository essays, biographical or autobiographical narratives, persuasive essays, eyewitness reports, and literary analysis essays. Students will practice the essential steps of the writing process, and will learn correct word usage, grammar, mechanics and structure needed to compose coherent, focused and persuasive essays. Through direct instruction and frequent writing practice students will improve their writing skills and master core concepts required for successful writing in the academic context.

Semesters: 1 Grade Level: 9 Required for Graduation: Yes

Introduction to Speech: This course is designed to help students improve their public speaking skills. Students practice and present a variety of speech styles, and work on researching, organizing and preparing for a speech. Students will practice leading a group meeting and interviewing with the use of technology.

Semesters: 1 Grade Level: 9 Required for Graduation: Yes

English 10: This course is designed to build upon the English skills students developed as freshman. The course focuses on the process of reading, understanding and writing about different genres of literature with the aim of making students more successful readers, writers, speakers and thinkers. Students are encouraged to develop sensitivity to and an awareness of

literary concepts and writers' techniques. Through reading and close analysis of literature, students will develop the critical thinking skills necessary to understand complex texts across the curriculum. Students will review the grammar, usage and mechanics of Standard English from paragraph formation to essay composition, and will study the classical roots of English vocabulary. When students write their research papers in the second semester, they will use MLA Style (Modern Language Association). Through their class projects and presentations, students will continue to develop their technological skills (word processing, web page design, Power Point and PhotoShop).

Semesters: 2 **Grade Level:** 10 **Pre-Requisite:** Successful completion of English 9

Required for graduation: Yes (or Honors English 10)

Honors English 10: This course offers an advanced and challenging English curriculum. The course will move at an accelerated pace and require students to cover an expanded and enriched reading list. The course provides rigorous practice in reading, analyzing, and writing about literature. Students will be encouraged to develop a sensitivity to and awareness of literary concepts and writers' techniques, thereby enabling them to respond more fully to literature and to learn how to write in a more sophisticated, versatile way. The course requires students deepen the critical reading and thinking skills necessary for analyzing increasingly complex literature and academic texts. Students will review the grammar, usage and mechanics of Standard English from paragraph formation to essay composition. In Honors English 10 students will use MLA Style (Modern Language Association) in formatting their research paper. Through projects and presentations, students will use their creativity to communicate their understanding of the rhetorical strategies and literary devices found in the course material. Students will continue to develop their technological skills in word processing, web page design, PhotoShop, and Power Point presentations. Honors English 10 students will also build their vocabulary through the study of classical roots.

Semesters: 2 **Grade Level:** 10 **Pre-Requisite:** a minimum of 90% in English 9 and teacher recommendation **Required for graduation:** Yes (English 10 or Honors English 10)

English 11: English 11 is a course in American Literature. Students will be exposed to a broad range of American literature from pre-exploration to the present. Major literary movements such as Romanticism, Realism, Transcendentalism, anti-Transcendentalism, and Existentialism will be defined and explored. This course focuses on the significance of each author to American history and the American Literary experience. English 11 is designed to make students successful readers, writers, speakers and thinkers, building upon the skills developed in English 10. Upon completing English 11, students, as readers, should be able to respond personally, aesthetically and critically to diverse texts; collect facts and ideas, discover relationships and make inferences; make critical judgments, analyze, evaluate and draw conclusions. As writers and thinkers, students should be able to express ideas in a variety of modes; communicate information, ideas and beliefs; express their ideas critically and analytically; express their ideas persuasively and provide support for those ideas. As speakers and listeners, students should be able to express themselves orally and evaluate ideas according to personal and/or affective criteria. English 11 is part of the integrated technology program at Villanova.

Semesters: 2 **Grade Level:** 11 **Pre-requisite:** Successful completion of English 10 or Honors English 10 **Required for Graduation:** Yes (or AP English 11)

AP English 11: AP Language and Composition is a course in both effective writing and critical reading. The class emphasizes the study of diverse texts and a variety of writing tasks. Students will write in a variety of genres and contexts, both formal and informal, employing appropriate conventions. Upon completing the course, students should be able to analyze and interpret samples of good writing, identifying and explaining an author's use of rhetorical strategies and techniques; apply effective rhetorical strategies and techniques in their own writing; create and sustain arguments based on readings, research and/or personal experience; and demonstrate understanding and an increasingly sophisticated use of standard written English. As students move effectively through the stages of the writing process from inquiry and research to drafting, revising, editing and review, their own writing will grow in stylistic maturity. AP English 11 is part of the integrated technology program at Villanova. The students will also be prepared to take the Advanced Placement Language Exam.

Semesters: 2 **Grade Level:** 11 **Pre-requisite:** a minimum of 88% over two years of English, or no less than 88% in Honors English 10 and teacher recommendation **Fee:** \$87.00 AP exam fee **Required for Graduation:** Yes (or English 11)

English 12: English 12 is designed for students who have successfully completed English 11. In English 12, the students will gain an appreciation of the cultural heritage of English literature and history. The students will also attain an understanding of the origins of the English language; its structure, its etymology, and its history. Upon completion of the course, students will be conversant with a broad overview of literary modes and genres. The students will gain an understanding of the research process, by producing work of independent critical literary research. Students will also be given the opportunity to write in critical and analytical modes through regularly assigned interpretive writing assignments. The students will also utilize current information technology in the study of, and writing about, literature.

Semesters: 2 **Grade Level:** 12 **Pre-requisite:** Successful Completion of English 11 or AP English 11 **Required for Graduation:** Yes (or AP English 12)

AP English 12: The students will be exposed to an advanced and accelerated course curriculum, and will read major works of English literature from 16th century to the present. The students will be provided with an overview of current literary critical theory. The students will be involved in literary research, and the research process, in the preparation of regularly assigned projects. The students will also be engaged in an advanced level of research, and will produce a work of independent literary criticism. The students will utilize modern electronic media in the study of literature and in the preparation of research-based projects as a part of Villanova's integrated technology program. Students will also compose critical and analytical essays modeled upon the Advanced Placement Exam, by using previous years' questions from the exam itself. The students will also be prepared to take the Advanced Placement Literature and Composition Exam.

Semesters: 2 **Grade Level:** 12 **Pre-requisite:** a minimum of 88% in AP English 11, or English 11 with a minimum grade of 95% and teacher recommendation **Fee:** \$87.00 AP exam fee **Required for Graduation:** Yes (or English 12)

Advanced Composition: Advanced Composition 12 is designed for students who have been recommended for admission into a course that stresses the writing process, and emphasis on the discursive modes of written English. In Advanced Composition, the students will also have the opportunity to review and expand upon the course material from English 11. The students will receive direct instruction in the writing process; guided exercises in generating

writing topics, sentences, paragraphs and themes ; group work, peer editing, and workshops evaluating student generated writing samples ; language study and a review of the fundamentals of English grammar and syntax ; additional review of course concepts and topics in English 11 and structured support in completing assignments for English 11. . The students will gain an understanding of the research process, by producing works of independent critical literary research. Students will be given additional structured support working toward mastery of writing in critical and analytical modes through regularly assigned interpretive writing assignments. The students will also be given additional utilization of current informational technology in the study of, and writing about, literature.

Course Prerequisite: None **Required for Graduation:** No

Genre Studies and Fiction Writing: (2 semester sequence)

First Semester: "Popular Fiction Technique and Style"

In this class, students will read and analyze works from the various genres of popular fiction, including action-adventure, horror, mystery, fantasy/science fiction, and literary fiction. We will examine how authors employ the techniques of fiction writing--setting, plot, characterization, dialogue, symbol, point of view, and conflict--to create superior stories. Writing assignments will be both analytical essays on authors' use of technique, and practice in mimicking their styles.

Course Prerequisite: None **Grade level:** 11, 12 **Required for Graduation:** No

Second Semester: "Fiction Writing"

In this class, students will study the elements of fiction--setting, plot, characterization, dialogue, symbol, point of view, and conflict--and practice their use to improve their own fiction writing. Daily writing in class and at home is required. All students are required to complete a story or stories of at least 100 total pages by the end of the semester.

Course Prerequisite: None **Grade level:** 11, 12 **Required for Graduation:** No

HISTORY/SOCIAL SCIENCE DEPARTMENT

A STUDENT MUST COMPLETE TWO SEMESTERS OF MODERN HISTORY OR AP WORLD HISTORY, TWO SEMESTERS OF U.S. HISTORY OR AP U.S. HISTORY, ONE SEMESTER OF CIVICS OR AP U.S. GOVT. AND ONE SEMESTER OF ECONOMICS IN ORDER TO RECEIVE A VILLANOVA DIPLOMA.

Modern History: In this course, students examine major turning points in the shaping of the modern world, from the Renaissance period to the present. The beginning of the course focuses on the expansion of the West and then develops into a study of the growing interdependence of people and cultures throughout the world. Through reading, research and geography related assignments, students learn how to analyze cause and effect, organize important information and think critically about past events.

Semesters: 2 **Grade Level:** 10 **Required for Graduation:** Yes

AP World History: The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in

global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodization, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. Admission to the course requires the recommendation of the English department and the approval of the Social Studies department. **Semesters: 2 Grade Level: 10 Fee: \$87.00 AP exam fee Required for graduation: Yes (or Modern History)**

United States History: The objective of this course is to acquaint the student with a comprehensive working knowledge of U.S. history beginning in the first semester with Pre-Columbian civilization, a review of Exploration to the Civil War, then a more in-depth study of the Civil War, and covering in the second semester the Gilded Age to the post-Cold War era of the 1990's. The course will prepare the student for successful test, project, and activity results. Learning strategies include student note taking, class lecture and discussion, examination of primary and secondary documents, essay writing, book and movie reviews, cooperative learning activities, and research methods.

Semesters: 2 Grade Level: 11 Required for graduation: Yes (or AP U.S. History)

AP United States History: The objective of this class is to acquaint the student with a comprehensive fluent knowledge of United States history from the Age of Exploration to the post-Cold War era of the 1990's; to prepare the student for the Advanced Placement Exam in U.S. History to be administered by the College Board in May; to prepare the student for successful test, project, and activity results. The strategies for learning include lecture and class discussion, student note taking, individual reading and analysis of primary and secondary documents, outlining of chapters, book reviews, acquaintance with AP style objective and essay questions, and cooperative learning activities. This course requires summer reading and preparation for the start of class in the fall. **Semesters: 2 Grade Level: 11 Pre-requisite:** a minimum 88% in Modern World History or AP World History and 10th grade Teacher recommendation. **Fee: \$87.00 AP exam fee Required for graduation: Yes (or U.S. History)**

Civics: This class is a required one-semester course for all twelfth grade students. The course is an introduction to the study of the American government and its institutions. Major emphasis is given to the federal level of government and understanding the Constitution of the United States, its foundations, interpretation, and application during the present time. A study is made of the American electoral process and voter behavior. Political decision making is analyzed through study of the executive, legislative, and judicial branches of government, along with political parties, federal bureaucracy, interest groups, and the media. **Semesters: 1 Grade Level: 12 Required for graduation: Yes**

Economics: This class is a required one-semester course for all twelfth grade students. It is designed to introduce students to fundamental economic principles and concepts. The major focus of the course is on the modern American economic system and its relationship to the global economy. Other economic systems are studied for their comparison with the American market economy. The course examines personal economic decision-making, and ultimately should prepare the student for successful study of economics at the college level. **Semesters: 1 Grade Level: 12 Required for Graduation: Yes**

AP American Government and Politics: This course is designed to give students an analytical perspective on government and politics in the United States. It includes the study of facts, general concepts and theories used to interpret U.S. government and politics. Students will become acquainted with a variety of theoretical perspectives and the patterns of political processes and behavior. They will analyze and interpret basic data relevant to the U. S. government and politics and learn to critically analyze relevant theories and concepts. Topics will include The Constitutional Underpinnings of the U.S. Government, Political Parties and Interest groups, Institutions of National Government, Public policy, Civil Rights and Liberties. Applying students must have an 88% grade in US History and the recommendation of their teacher. This is a one semester course which may be taken to fulfill the Civics requirement. UC Approved. **Semesters: 1 Grade Level: 12 Fee: \$87.00 AP exam fee Required for graduation: Yes (or Civics)**

Psychology: This elective course is lecture and discussion based and covers one semester of psychology. Students taking this course will be exposed to a variety of psychological theories and ideas including (but not limited to): various types of psychological approaches; major psychological theories; biological influences of psychology; individual behavior and social psychology; developmental psychology; and abnormal psychology. This course gives students hands on experience with a variety of psychological demonstrations and research projects that allow them to explore psychological theories and principles at a personal level. **Semesters: 1 Grade Level: 11, 12 Required for Graduation: No**

Advance Placement Psychology: This course is lecture and discussion based and covers one college semester of psychology. This class is designed to prepare students to take the Advanced Placement Exam for Psychology. Students will be required to independently complete a variety of research projects, as well as demonstrate an ability to evaluate and analyze psychological theories using critical thinking skills. Students taking this course will be exposed to a variety of psychological theories and ideas including (but not limited to): various types of psychological approaches; major psychological theories; biological influences of psychology; individual behavior and social psychology; developmental psychology; and abnormal psychology. This course gives students hands on experience with a variety of psychological demonstrations and research projects that allow them to explore psychological theories and principles at a personal level. **Semesters: 2 Grade: 12 Prerequisite: a minimum 88% in Psychology/Sociology and teacher recommendations Fee: \$87.00 AP exam fee**

Sociology: This elective course is lecture and discussion based and covers one semester of sociology. Each student is expected to use critical thinking skills to analyze and interpret a variety of sociological information and in doing so, participate in class discussions and debates. The class covers the connection between the larger social world and the students' personal lives, the ability to examine how society shapes human behavior and beliefs and how these in turn shape society. It also explores how individuals become functioning members of society and repercussions to people who do not conform to societal expectations. A major section of the course is devoted to social inequality and social stratification systems, as well as the analysis of social class, poverty, and crime. **Semesters: 1 Grade Level: 11, 12 Required for Graduation: No**

MATHEMATICS DEPARTMENT

IN ORDER TO RECEIVE A VILLANOVA DIPLOMA A STUDENT MUST COMPLETE THREE YEARS OF MATHEMATICS WHICH MUST INCLUDE TWO SEMESTERS OF ALGEBRA, TWO SEMESTERS OF GEOMETRY AND TWO SEMESTERS OF ALGEBRA II/TRIGONOMETRY.

Villanova offers two tracks for Mathematics: College Prep and Calculus, as outlined below. Students who complete Algebra I in their freshman year and who wish to take Calculus as seniors must complete an additional year of Math before senior year. This can be done over the summer with approval from the Math Department Chair and the Assistant Head of School for Academics.

Grade	College Prep Track	Grade	Calculus Track
8th Grade	NA	8th Grade	Algebra I
Freshman	Algebra I	Freshman	Geometry
Sophomore	Geometry	Sophomore	Algebra II/Trig/Honors Algebra II/Trig
Junior	Algebra II/Trig	Junior	Pre-Calculus/Honors Pre-Calculus
Senior	Pre-Calculus	Senior	Calculus AB or BC/ AP Calculus AB or BC

Algebra I: Algebra I is a comprehensive course that incorporates both lecture and problem-solving methods essential to enhance the student’s knowledge of the subject matter, and to ensure success at the next level. This course includes: recognizing and defining properties of the real number system, solving equations, inequalities, word problems, radical expressions, and linear equations in two variables by various systems; factoring and solving polynomials and quadratic equations; and the introduction and understanding of the basic concepts of geometry.

Semesters: 2 **Grade Level:** 9 **Required for graduation:** Yes (or Honors Algebra I)

Geometry: Geometry is a comprehensive course that incorporates both lecture and problem solving methods essential to enhancing the student’s knowledge of the subject matter to ensure success at the next level. This course’s focus is on critical thinking in the form of two-column proofs dealing with congruent and similar triangles, parallel lines, special quadrilaterals and triangles, along with coordinate geometry. The course includes recognizing the advanced techniques in solving linear and quadratic equations in one and two variables, factoring and solving polynomials, and simplifying rational and irrational numbers.

Semesters: 2 **Grade Level:** 10 **Prerequisite:** Satisfactory completion of Algebra I or Honors Algebra I **Required for Graduation:** Yes

Algebra II/Trigonometry: Algebra II/Trigonometry is a comprehensive course that is designed to expand the student's knowledge of algebraic systems and geometry. Exponential, logarithmic and trigonometric functions are explored. The course begins with a review of the real number system and the algebraic methods that manipulate these numbers which will include, solving linear equations, inequalities, absolute value, polynomial, rational and radical equations and non-linear inequalities. The complex number system will be introduced to handle those situations not covered by the real number system. Students will learn how to define functions, state their domain and range, find inverses, define degree and radian measure of angles, and learn the six trigonometric ratios and how to graph them. Exponents, both integer and rational, along with logarithms will be introduced. Upon completion of this course, the student will be ready to apply these concepts in a course like Advanced.

Semesters: 2 **Grade Level:** 11 **Prerequisite:** Satisfactory completion of Geometry **Required for Graduation:** Yes (or Honors Algebra II/Trigonometry)

Honors Algebra II/Trigonometry: Honors Algebra II/ Trigonometry is a comprehensive course designed to prepare a student for a course in Honors Pre-Calculus or AP Calculus AB. This course expands on the concepts covered in Algebra II/Trigonometry (see Algebra II/Trigonometry Course Description). The Honors student is expected to know the history of the irrational number pi and the basic theory of complex numbers. Advanced methods and theorems will be used to study functions and transformations in detail. The degree and radian measure of angles, rectangular and polar coordinates, trigonometric functions and identities, and exponential and logarithmic functions will be introduced. Graphing of various functions will be expected. The Honors course will include a study of the binomial theorem, sequences and series, and probability theory and statistics. The utilization of the graphing calculator is integral to the course. This course is intended for students who will take Calculus in the senior year.

Semesters: 2 **Grade Level:** 11 **Prerequisite:** A high B (88%) in Geometry, and teacher recommendation **Required for Graduation:** Yes (or Algebra II/Trigonometry)

Advanced Math: Advanced Math is a senior course intended for those students who desire to further their math education but do not wish to pursue a more rigorous undertaking of the advanced concepts taught in the Pre-Calculus and AP Calculus AB courses. This course covers the basic elements of mathematical function theory and discusses the polynomial, rational and radical algebraic functions as well as the exponential, logarithmic and trigonometric functions from an applications/users point of view. Applications involving exponential growth and decay, compound interest and depreciation, and surveying problems will be studied with emphasis on determining answers rather than an emphasis on a detailed analysis of the underlying theory. The graphing calculator will be introduced as an instrument used for solving problems related to the above applications. In addition, the student will be introduced to probability and statistics. Students will be exposed to real-world experiences of the application of mathematics.

Semesters: 2 **Grade Level:** 12 **Prerequisite:** Satisfactory completion of Algebra II/Trigonometry or Honors Algebra II/Trigonometry **Required for Graduation:** No

Pre-Calculus: Pre-Calculus is designed to provide a deeper understanding of the principles of Algebra II/Trigonometry as a foundation for higher mathematics. Emphasis will be placed on expanding the student's knowledge of functions and the corresponding inverse functions. Analytic and graphical methods will be used to solve applications involving both algebraic and

transcendental functions. A graphing calculator (minimum TI-83) is a requirement for this course. Students will also be introduced to matrix theory with the aid of matrix algebra and the graphing calculator. The last segment of the course will include advanced applications of trigonometry, powers and roots of complex numbers, polar coordinates and polar equations, arithmetic and geometric sequences, the binomial theorem, and the basic elements of probability theory.

Semesters: 2 **Grade Level:** 10, 11, 12 **Prerequisite:** Satisfactory completion of Algebra II/Trigonometry or Honors Algebra II/Trigonometry **Required for Graduation:** No

Honors Pre-Calculus: Honors Pre-Calculus expands on concepts taught in Pre-Calculus (see Pre-Calculus course description). Students upon completion of Honors Pre-Calculus should be prepared for AP Calculus AB.

Semesters: 2 **Grade Level:** 12 **Prerequisite:** An “A” (93%) in Algebra II/Trigonometry or a high “B” (88%) or better in Honors Algebra II/Trigonometry, and teacher recommendation **Required for Graduation:** No

Calculus AB: This course is an introduction to Calculus and begins with a review of material from Pre-calculus which includes function theory, polynomials, rational expressions, trigonometric functions, and logarithmic and exponential functions. The student will then begin exploring the concept of a limit and how it forms the basis of both differential and integral calculus. In differential calculus, the student will extend his/her knowledge of slope, or average rate of change, to the slope of the tangent line at a point, or instantaneous rate of change. The student will realize this is the first derivative of a function. Focus will be placed on applications of the derivative in physics, business, and the life sciences through the study of related rate and optimization problems. In integral calculus, the student will learn to approximate the area under the curve by summing the area of rectangles. The student will then see how the limit process turns this approximation into the actual area and how this can be interpreted as the definite integral, the anti-derivative or the inverse process of differentiation. As in differential calculus focus will be placed on the application of the integral in the sciences and other fields. After completing this class the student should leave with an appreciation for the power of calculus and an ability to recognize when it is being utilized. The student should also be able to apply techniques learned in this class to solve multi-level problems found in business and the sciences.

Semesters: 2 **Grade Level:** 11, 12 **Prerequisite:** Satisfactory completion of Pre-Calculus or Honors Pre-Calculus. **Required for Graduation:** No

Advanced Placement Calculus AB: AP Calculus AB is an intensive course that covers the material presented on the college and university level. It is expected that students signing up for AP Calculus AB will take the AP exam and seek college credit. The course begins with a review of material from Algebra II/Trigonometry and Pre-Calculus which includes polynomial, rational radical and the classic transcendental functions as well as their inverses. The student will learn the concept of a “limit” and how this concept forms the basis of both differential and integral calculus. In differential calculus, the student will extend his/her knowledge of slope to the “slope of the tangent line to the graph of a nonlinear function at a point” or the first derivative of the function. The second and higher-order derivatives will be defined. In integral calculus, the student will learn how the area under a curve can be approximated by a sum of “many” rectangles and how this area can be interpreted as the definite integral, the anti-derivative or the inverse process of differentiation. Rotating a curve

about some axis can generate a solid of revolution. The student will learn how to find the surface area and volume of this solid of revolution, using the methods of integral calculus. Students should be prepared by early May to take the AP Calculus AB exam administered by the College Entrance Examination Board. Successful completion of this exam will result in college credit or advanced college placement.

Semesters: 2 **Grade Level:** 12 **Prerequisite:** Satisfactory completion of Pre-Calculus or an A in Algebra II/Trigonometry and a passing grade on the Pre-Calculus final and Teacher Recommendation **Fee:** \$87.00 AP exam fee **Required for Graduation:** No

Advanced Placement Calculus BC: AP Calculus BC is a year course that is comparable to calculus courses taught in colleges and universities. Students enrolled in this class are expected to take the AP Exam and seek college credit and/or college placement. The course begins with a review of basic principles learned in AP Calculus AB. Emphasis will be on the theory of sequenced, infinite series, power series, Taylor series, Taylor polynomials, conic sections, parametric equations, and vector calculus. Students will study advanced methods for evaluating integrals, integration by parts, trigonometric substitutions, and techniques for integrating the powers of trigonometric functions. Students will learn how to evaluate improper integrals and be exposed to advance methods for evaluating limits the approach an indeterminate form. Polar coordinates will be introduced and double integrals will be evaluated. Students should be adequately prepared to take the Advanced Placement Exam in May. Successful completion of this exam will result in college credit or advanced college placement. This course receives honors points in GPA calculations.

Semesters: 2 **Grade Level:** 12 **Prerequisite:** satisfactory completion of AP Calculus AB. **Fee:** \$87.00 AP exam fee **Required for Graduation:** No

Advanced Placement Statistics: The purpose of AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This study would include patterns and departures from patterns, sampling, Hypotheses, conducting studies, exploring random phenomena using probability and simulation, and statistical inference. A student should have successfully completed pre-calculus and have the recommendation of his/her current math teacher. **Grade Level:** 12 **Fee:** \$87.00 AP exam fee **Required for Graduation:** No

SCIENCE DEPARTMENT

THREE FULL YEARS OF SCIENCE ARE REQUIRED TO RECEIVE A VILLANOVA DIPLOMA. THESE CREDITS MUST INCLUDE TWO SEMESTERS OF BIOLOGY AND TWO SEMESTERS OF CHEMISTRY.

Physical Science: This is an introductory course which incorporates both lecture and lab work to enhance the student's knowledge in chemistry and physics. Students will learn the basic overview of scientific methods, unit conversions, scientific notation, significant figures and possible sources of error measurement. Students will acquire necessary foundational work for chemistry and physics; perform various chemistry and physics labs; understand and demonstrate laboratory safety. Topics of the chemistry portion of this course include: atoms, elements, compounds, ions, molecules, chemical formulas, chemical reactions and stoichiometry. Students will develop a solid understanding of basic principles of classical

physics and mechanics, including but not limited to: Newton's Laws of motion, momentum, work energy, and wave mechanics.

Semesters: 2 Grade Level: 9 Required for Graduation: Yes

Biology: This course is designed for all students and emphasizes the development of study skills and writing and vocabulary skills. Students will write a research paper on a topic of their own choosing using the APA style and a variety of sources. The purpose of the course is to gain understanding of molecular biology including an introduction to anatomy and physiology of plants and animals. The course also has a field studies component.

Semesters: 2 Grade Level: 10 Required for Graduation: Yes (or Honors Biology)

Honors Biology: This course is designed for students with a declared interest in life science and/or with excellent motivation and study skills. Students will write two research papers on topics of their own choosing using APA style and a variety of sources. The purpose of the course is to gain understanding of molecular biology, cell structure, organic evolution, genetics, ecology, and organismal biology including an introduction to anatomy and physiology of plants and animals. The course also has a field studies component. Students are encouraged to take the SAT II Biology Exam.

Semesters: 2 Grade Level: 10 Prerequisite: a minimum of 85% (or higher) in Physical Science and teacher recommendation. **Required for Graduation: Yes (or Biology)**

Chemistry: Chemistry is an introductory course that will offer students an opportunity to explore the nature and fundamental properties of matter. Incorporating the study of scientific and technological issues that concern us in today's world, students will come to better understand chemical principles. Topics covered in this class include: atomic structure, the periodic table, chemical reactions and energy, bonding, gases and solution chemistry, and a brief introduction to nuclear and organic chemistry. In addition to laboratory investigations, students will be challenged to form meaningful questions and design many of their own experiments. Scientific writing will be required in formal lab reports, reflective papers and research papers. The curriculum is fully grounded in the California State Science Standards for Chemistry.

Semesters: 2 Grade Level: 11 Prerequisite: Physical Science and Biology. Co-Requisite: Algebra II/Trigonometry **Required for Graduation: Yes (or Honors Chemistry)**

Honors Chemistry: Honors Chemistry is an advanced introductory course that offers students an opportunity to explore the nature and fundamental properties of matter at an accelerated pace. Through the study of scientific and technological issues that concern us in today's world, students will come to better understand and apply chemical principles. In addition to weekly laboratory investigations, students will be challenged to form meaningful questions and design many of their own experiments in search of answers. Scientific writing will be required in formal lab reports and research papers. Scientific problem-solving is the basis of the course, and solid fundamental Algebra skills and reasoning are required. The curriculum is fully grounded in the California State Science Standards for Chemistry at the Honors level. Note: This course receives honors points as part of the GPA calculations.

Semesters: 2 Grade Level: 11 Prerequisite: a minimum high B (88%) in Biology or Honors Biology and a math placement test. **Required for Graduation: Yes (or Chemistry)**

Advanced Placement Chemistry: The AP Chemistry course is a time consuming and challenging year long course. The course is designed and structured to be the equivalent of the first year college general chemistry course. Upon successful completion of the course and achievement of a satisfactory score on the AP Chemistry Examination, students may have the opportunity to receive general chemistry credits or move into more advanced science courses during their first year in college. The course is developed in order for the students to attain an in-depth understanding of fundamentals governing many disciplines of chemistry as well as to acquire problem solving skills dealing with chemical problems. Through-out the year long course, a strong emphasis will be placed upon problem solving skills, descriptive chemistry, development and use of models to explain certain chemical principles, and prediction of chemical reaction products. Students are encouraged to develop abilities to express their ideas and thoughts through clear and logical written and oral communications. Laboratory experiments will allow students to explore different topics of chemistry in an interactive way which allows them to develop both qualitative and quantitative observational skills.

Prerequisites: The AP Chemistry course is designed to be taken only after the successful completion of a general chemistry course. A satisfactory score on the placement test and a recommendation from a chemistry teacher are prerequisite for enrollment in an AP chemistry class. It is also recommended that students have successfully passed Algebra II.

Prerequisite: completion of Chemistry or Honors Chemistry and approval of department.

Fee: \$87.00 AP Exam Fee **Required for Graduation:** No

Physics: Physics is a laboratory, writing based course in which students will demonstrate an understanding of physics and its applications through writing and laboratory experiments. This course is specifically designed for those students who will be emphasizing liberal arts over science in college. It is also recommended for those students with special interest in physics as background preparation for Honors Physics. Topics include: kinematics, mechanics, electricity and magnetism, fluids, sound, heat, light, optics, atomic theory, solid state physics, cosmology and relativity theory. Applications include most forms of electronic communication (especially digital communication and the internet), power generation, power transmission, steam and internal combustion engines, transportation and physics as applied to the design and engineering of public works infrastructure, development and land use. In addition to required periodic labs, two major projects in selected areas will be required: 1. a detailed laboratory study in a student selected topic area of physics; 2. a study of social, political or environmental problems relating to a student selected topic such as power generation, transportation, or electronic communication.

Semesters: 2 **Grade Level:** 11 and 12 **Prerequisite:** Algebra II/Trigonometry

Required for Graduation: No

Advanced Placement Physics: This course is designed to prepare the student for the AP Physics B exam. The Physics B course includes topics in both classical and modern physics. Knowledge of algebra and trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems are major goals of the course. Consequently, the course utilizes guided inquiry and student-centered learning to foster the development of critical thinking skills. Physics B provides instruction in each of the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics,

and atomic and nuclear physics. Acceptance to the course will depend upon recommendations from math and science teachers. UC Approved.

Semesters: 2 **Grade Level:** 12 **Prerequisite:** Concurrent enrollment in Calculus AB

Fee: \$87.00 AP exam fee **Required for Graduation:** No

Astronomy: Astronomy is an elective, one year science course which will explore current models and discoveries in the field of Astronomy and Cosmology. Topics will include: our solar system, stellar birth and death, formation of the elements, extra-solar planet formation, galaxies, nebulae, origins of matter, energy and life, cosmology and models of our universe. In addition, students will learn how to use a telescope and take measurements of and identify objects in the night sky. At least one night lab will be required per quarter.

Semesters: 2 **Grade Level:** 12 **Prerequisites:** None **Required for Graduation:** No

Marine Biology: This course is an introduction to the scientific study of the marine biology and is intended for students who are motivated to learn more about the oceans of the world and organisms that live in them. The course is designed to include the study of the marine organisms of our own coastal area. Field trips and laboratory activities will be an integral part of the course. The major areas of study will include the following topics: The World's Oceans, Chemical and Physical Factors, Evolution of Life, Marine Plants, Invertebrates, Marine Vertebrates (fish, reptile, bird, and mammal), Marine Ecology, and Impact of Humans on the Marine Environment.

Semesters: 2 **Grade level:** 12 **Prerequisite:** None **Required for graduation:** No

RELIGION DEPARTMENT

TO RECEIVE A VILLANOVA DIPLOMA, EACH STUDENT MUST COMPLETE EIGHT SEMESTERS OF DESIGNATED RELIGION COURSES

The Villanova Religion Department seeks to provide for Roman Catholic students material content that can serve as a foundation upon which to develop and deepen their understanding and commitment to their Roman Catholic faith. At the same time, students who do not share our Roman Catholic faith are directly encouraged to develop a deeper understanding of their own religious heritage and to present their faith perspectives and positions in the classroom. Throughout the process, the department recognizes the need to respect the individual's conscience.

Religion 9 –God's Revelation through the Bible and the Church: The goal of this course is to give students from diverse religious backgrounds a basic understanding of who Jesus Christ is in the context of the Catholic faith and to explore the revelation of Jesus Christ in the Hebrew Scriptures or Old Testament at a personal and affective level. The students will learn the fundamentals of biblical studies and the themes of salvation beginning with Genesis and the history of the Jews, our forerunners in faith. Religious figures such as Abraham, Moses, David, and the prophets will give further insight into the Christian and Catholic understanding of Jesus Christ's revelation to all peoples of the earth. Students will also receive an introduction to the life and teaching of St. Augustine and the mission of the Order of St. Augustine, the founders of our school. A class retreat is scheduled early in the semester. Assignments will include a minimum of one semester project.

Semester: Fall **Grade level:** 9 **Required for Graduation:** Yes **Christian Service Requirement:** None

Religion 9– New Testament: This course enables students to grow in their understanding of the life, death, and resurrection of Jesus Christ and its meaning for all Christians. The course consists of three parts: an introduction to Jesus and the Scriptures; the life and death of Jesus Christ; and the Resurrection of Jesus and the beginnings of the Christian church. The key to understanding Jesus and these events is through the use of Scripture (primarily the four Gospels and the letters of Paul.) Assignments will include a minimum of one semester project. During this semester, each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course.

Semester: Fall **Grade level:** 10 **Required for Graduation:** Yes **Christian Service Requirement:** 10 hours

Religion 10 – New Testament: This course enables students to grow in their understanding of the life, death, and resurrection of Jesus Christ and its meaning for all Christians. The course consists of three parts: an introduction to Jesus and the Scriptures; the life and death of Jesus Christ; and the Resurrection of Jesus and the beginnings of the Christian church. The key to understanding Jesus and these events is through the use of Scripture (primarily the four Gospels and the letters of Paul.) Assignments will include a minimum of one semester project. During this semester, each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course.

Semester: Fall **Grade level:** 10 **Required for Graduation:** Yes **Christian Service Requirement:** 10 hours

Religion 10 - Sacraments: This course seeks to reflect the renewal of Catholic sacramental theology in five distinct areas: 1. Sacramental awareness which refers to the grace to recognize God’s presence in our life, 2. Celebration, which refers to a ritualistic way of living life, 3. Community, which is the context of celebrating sacraments, 4. Service, which makes God visibly, tangibly present in the world, and 5. Life journeys, which is the context for the seven sacraments as understood by individual Christians as part of a pilgrim Church. In the parameters of this course, the students will be able to describe the relationship between Jesus, the church, and the seven sacraments. Assignments will include a minimum of one semester project. A visit to the Cathedral of Our Lady of the Angels is part of the curriculum. During this semester, each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course.

Semester: Spring **Grade level:** 10 **Required for Graduation:** Yes **Christian Service Requirement:** 10 hours

Religion 11 – Ethics and Morality: This course will guide students to an understanding of the precepts of morality and how to live a moral life based on the teachings of Jesus Christ and the Catholic Church. The students will be guided by the richness of the Christian tradition of moral teachings found in the Gospels, the Ten Commandments, the virtues, the works of mercy, the precepts of the Catholic Church, and the various encyclicals and Episcopal documents that address relevant moral issues in today’s world. Students will also learn about the Moral Law, the development of a moral conscience, and the process of decision making

for a faithful Christian. Assignments will include a minimum of one semester project. During this semester, each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course.

Semester: Fall **Grade level:** 11 **Required for Graduation:** Yes **Christian Service**

Requirement: 10 hours

Religion 11 – Justice and Peace: This course introduces the student to the social teachings of Jesus Christ and the Catholic Church. We will examine the rich tradition of the Gospels and the Church's teachings and apply them to the many justice issues that exist in today's world. Topics for discussion include (but are not limited to) the following: 1. the principles of Catholic social teaching, 2. the virtue of justice, 3. justice in our world, 4. the fundamental right to life, 5. peace, 6. poverty, 7. discrimination, 8. rights of workers and the dignity of work, and the stewardship of creation. Assignments will include a minimum of one semester project. During this semester, each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course. A required retreat is also part of the curriculum.

Semester: Spring **Grade level:** 11 **Required for Graduation:** Yes **Co-Requisite:** A class visit to the Museum of Tolerance **Christian Service Requirement:** 10 hours

Religion 12 – Discovering One's Life Call: This course is designed to involve the students in activities of reflection, journal keeping, and discussion by integrating the following concepts with the students' own experience: 1. Understanding and coping with the opportunities, challenges, and developmental tasks facing them in young adulthood, 2. Focusing on a clearer understanding of our four vocational paths --- single life, married life, religious life, and ordained ministry, and 3. Examining lifestyle issues and choices in the light of the Gospel and the Christian tradition. Assignments will include a minimum of one semester project. During this semester each student is required to complete ten hours of Christian Service in order to receive a passing grade in this course.

Semester: Spring **Grade level:** 12 **Required for Graduation:** Yes **Christian Service**

Requirement: 10 hours

Religion 12: World Religions: World Religions is a course designed for seniors. The purpose of this course is to acquaint students with the variety of religions existing throughout the world. After an introduction to the concept of religion in general and primal religions, specific religions will be studied, beginning with ones from south Asia (Hinduism, Buddhism, Jainism, Sikhism), then from east Asia (Confucianism, Taoism, Zen Buddhism, Shinto), and finally religions of the West (ancient Greek and Roman religions, Judaism, Christianity, and Islam). In each case, the origins, major beliefs and practices of the religion will be covered on its own terms as well as viewed through the Catholic lens. One or two semester projects are required in lieu of a semester exam. An extended retreat is also required this semester as well as completion of the Christian Service hours to receive a passing grade.

Semester: Spring **Grade Level:** 12 **Required for Graduation:** Yes **Christian Service**

Requirement: 10 hours

FOREIGN LANGUAGE DEPARTMENT

A VILLANOVA STUDENT MUST COMPLETE SIX SEMESTERS OF A FOREIGN LANGUAGE. ALL OF THESE MUST BE IN THE SAME LANGUAGE.

Latin I: Latin I employs the methodology of the Lingua Latina series. One objective of the course is to help students think in Latin through a Latin-only speaking, reading, and writing immersion. Students will attain an understanding of word forms, rules of grammar, syntax, and style through direct experience with the language. Finally, students will gain a better understanding of the roots of our very own English words, leading to a better understanding of what our English words are signifying.

Semesters: 2 Grade Level: 9, 10, 11, 12 Required for Graduation: Yes

Latin II: Latin II employs the methodology of the Cambridge School Classics Project, the two major objectives of which are 1) To teach comprehension of the Latin language through practice in reading it, and 2) To develop, through these readings, the students' understanding of the social and political history of the Romans, especially during the first century A.D. The course does not present the Latin language as an abstract linguistic system or merely as an exercise for developing mental discipline. Instead, it presents the language as the medium of a great culture and literature that molded it (Cambridge Latin Course Unit 1, Teacher's Manual, pp.5-6). The students will improve through stage readings and instruction their Latin vocabulary, understanding of word forms, and rules of grammar, syntax, and style. In so doing they shall continue learning about Roman culture, classical civilization, and the classical heritage.

Semesters: 2 Grade Level: 10, 11, 12 Required for Graduation: Yes Pre-requisite: Satisfactory completion of Latin I

Latin III: Latin III employs the methodology of the Cambridge School Classics Project, the two major objectives of which are 1) To teach comprehension of the Latin language through practice in reading it, and 2) To develop, through these readings, the students' understanding of the social and political history of the Romans, especially during the first century A.D. The course does not present the Latin language as an abstract linguistic system or merely as an exercise for developing mental discipline. Instead, it presents the language as the medium of a great culture and literature that molded it (Cambridge Latin Course Unit 1, Teacher's Manual, pp. 5-6). The students will improve through stage readings and instruction their Latin vocabulary, understanding of word forms and rules of grammar, syntax, and style. In so doing, they shall continue learning about Roman culture, classical civilization, and the classical heritage. Latin 3 students will read prose and poetry by authors such as Cicero, Caesar, Catullus and Ovid, as well as selections from the Vulgate Bible and Medieval Latin.

Semesters: 2 Grade Level: 11, 12 Required for Graduation: Yes Pre-requisite: Satisfactory completion of Latin II

Advanced Placement Latin IV, AP-Vergil: The course of study is in accordance with the College Board's Advanced Placement Latin Literature, Vergil syllabus. The objective of the course is to enable students in their preparation to succeed on the Advanced Placement Examination held each May (Consult the AP Latin section on The College Board's website). The course will cover in Latin the following lines of the Aeneid: Aen.1.1-519; Aen.2.1-56, 199-297, 469-566, 735-805; Aen.4.1-448, 642-705; Aen.6.1-211, 450-476, 847-901; Aen.10.420-509; Aen.12.791-842, 887-952 (Total lines: 1,856). The course involves daily, close Latin reading and translation. Meter, scansion, figures of speech and prosody, and

Roman culture of the late Republican and Augustan period are topics. Students will read a number of critical and scholarly articles pertaining to Vergil, his art, and his legacy.

Semesters: 2 **Grade Level:** 12 **Pre-requisite:** Latin III with a minimum grade of B

Fee: \$87.00 AP exam fee **Required for Graduation:** No

Spanish I: Spanish I is an introductory course designed to develop the skills of understanding and speaking Spanish, which will be further strengthened by reading and writing. The goal is that by the end of the first year course, students should be able to understand and produce simple questions, answers, descriptions, and statements on topics such as family and friends, school, and daily activities that would be understood by a native speaker. The student's language will include the use of basic grammar forms and vocabulary appropriate to the topics studied.

Semesters: 2 **Grade Level:** 9, 10, 11, 12 **Required for Graduation:** Yes

Spanish II: This is a second-year Spanish course which stresses all four skills of listening, speaking, reading, and writing. Each unit is culture-based, with vocabulary and expressions typical of the country which is featured. Students will learn new vocabulary, expressions, and grammatical structures needed to express the big ideas of the unit. Communication is practiced in pairs, and through oral presentations of dialogues based on the big ideas of the unit.

Semesters: 2 **Grade Level:** 10, 11, 12 **Pre-requisite:** Satisfactory completion of Spanish I

Required for Graduation: Yes

Spanish III: This is an intermediate course which provides the student with greater opportunities to fine-tune the communication skills acquired in Spanish 1 and 2. Thematic and lexical topics are an extension of those of the first two levels of Spanish study. The sphere of concentration, however, is broadened to include aspects of the social, political, scientific, and cultural life of the countries where Spanish is spoken. **Semesters:** 2 **Grade Level:** 11, 12

Pre-requisite: Satisfactory completion of Spanish II **Required for Graduation:** Yes

Honors Spanish III: This is a course designed for students who have excellent work habits and the ability to do some independent work. This course strives towards mastery in all four skills of listening, speaking, reading, and writing, in order to prepare students for Advanced Placement Spanish at the fourth-year level. Students will engage in a variety of activities at the intermediate level, such as watching and reporting on live television shows, reading short stories and participating in discussions, preparing group projects such as dialogues and skits with the aid of technology. This course receives honors points in GPA calculations.

Semesters: 2 **Grade Level:** 11, 12 **Pre-requisite:** Spanish II with a minimum grade of high B, placement test, and recommendation of teacher and Department Chair **Required for Graduation:** Yes

Spanish IV: Spanish IV is an advanced course designed to provide activities for students to develop proficiency in all communication skills. This course includes opportunities for reading novels, short stories, plays and periodicals in Spanish. Students will write compositions, summaries, critiques and resumes. Students will also present oral reports in Spanish expressing a point of view.

Semesters: 2 **Grade Level:** 11, 12 **Pre-requisite:** Spanish III with a minimum grade of B

Required for Graduation: No

Advanced Placement Spanish IV – Language & Composition: This is a course designed for students with excellent work habits and the ability to work independently. This course prepares students to take the College Board’s Advanced Placement Examination in the Spanish language. All skills are practiced at an advanced level and students are encouraged to think analytically and become articulate. It is a proficiency-oriented course. Students enrolled in this class must take the AP exam in May.

Semesters: 2 **Grade Level:** 12 **Pre-Requisite:** Spanish III with a minimum grade of high B, assessment test, and recommendation of teacher and Department Chair. **Fee:** \$87.00 AP exam fee **Required for Graduation:** No

Japanese I: Japanese I is an introductory course designed to provide students with basic communication skills in Japanese through the textbook, audio-visual aids, computer software, and practical lessons. During the course, students learn about geography of Japan, Japanese culture and people. This course emphasizes practical communication, the development of all four language skills (listening, speaking, reading, and writing), student interaction, and cultural awareness. Students learn to be able to read and write Hiragana, to recognize Katakana, and 20 Kanji characters. Field trips may be required. **Semesters:** 2 **Grade Level:** 9, 10, 11, 12 **Required for graduation:** Yes

Japanese II: Japanese II is a beginning–intermediate course designed to provide students with communication skills in Japanese through the textbook, audio-visual aids, computer software, and practical lessons. Students expand vocabulary and learn grammatical concepts as they acquire greater listening, speaking, reading and writing skills in Japanese. Students learn to be able to read and write Katakana, and 60 additional Kanji characters. Field trips may be required.

Semesters: 2 **Grade Level:** 10, 11, 12 **Pre-requisite:** Satisfactory completion of Japanese I **Required for graduation:** Yes

Japanese III: Japanese III is an intermediate course designed to provide students with communication skills in Japanese through the textbook, audio-visual aids, computer software, and practical lessons. Students use more complex grammatical constructions and wider range of idiomatic expressions. Further study of Japanese history, culture and current events are included in order to develop comprehension and speaking skills. Students learn to use plain speech as well as formal style speech, learn to better understand written and spoken Japanese, informal and polite speech, male and female speech. Students also learn to read and write 80 additional Kanji characters. Field trips may be required.

Semesters: 2 **Grade Level:** 11, 12 **Pre-requisite:** Satisfactory completion of Japanese II **Required for graduation:** Yes

Japanese IV: Japanese IV is an advanced course designed to provide students with communication skills in Japanese through the textbook, audio-visual aids, computer software, and practical lessons. Students use more complex grammatical constructions and wider range of idiomatic expressions. The conversations in this level are more natural and include abbreviated expressions and suitable responses. Students learn to use “keigo” style (used to show respect for the person addressed) as well as plain and polite styles of speech. Further study of Japanese history, culture and current events are included in order to develop comprehension and speaking skills. Students learn to read and write 100 additional Kanji characters. Field trips may be required.

Semesters: 2 Grade Level: 12 Pre-requisite: Japanese III with a minimum grade of B.
Required for graduation: No

Chinese Language and Culture: This course is an elective one year course designed to provide students with basic communication skills in Mandarin Chinese. Emphasis is on listening, speaking, reading and writing Chinese. It is also designed to provide students with a comprehensive and perspective knowledge on Chinese culture. Topics will include language and literature, history, philosophies, religion, traditional arts and music, daily life, etc. Students will gain knowledge with research, further develop critical thinking with writing and discussions, and be able to compare Chinese and American culture.

Semesters: 2 Grade Level: 11-12 Required for graduation: No

COMPUTER TECHNOLOGY DEPARTMENT

**ALL COURSE OFFERED IN COMPUTER TECHNOLOGY
ARE ELECTIVE COURSES.**

Computer Graphic Design—Photoshop CS2 Course Description: This course will explore the digital imaging software application, Adobe PhotoShop CS2. Material will cover the fundamentals: the work environment and help resources, tools, making selections, blending images, using layers and masks, retouching and color correcting, using smart objects, selected effects like hand coloring, color-management issues, and creating images for print or the Web. Semester 2: Continuation of Semester 1 incorporating the fundamentals learned and applying knowledge to increasingly complicated projects including: creating tessellations, interlocking photo patterns, underwater perspective images, comic book images and animation. This course assumes no prior knowledge, and beginners as well as advanced will benefit from material and projects presented.

Semesters: 2 Grade Level: 11, 12 Required for Graduation: No

FINE ARTS DEPARTMENT

**A VILLANOVA STUDENT MUST COMPLETE AT LEAST TWO
CONTINUOUS SEMESTERS OF THE SAME FINE ART IN ORDER
TO RECEIVE A VILLANOVA DIPLOMA.**

The Art of Western Culture: This course combines both the fundamentals of studio art and digital art with a survey course of art in western culture. This course emphasizes the necessary skills to provide the student with a perceptual base leading to understanding artistic perception, creative expression, and historical and cultural context(s). The art elements and principals of design serve as a foundation for each unit covered. Students gain an understanding and appreciation of art by comments from “Visiting Artists” guest lectures series that introduce students to local artists and various careers in art. Students will develop both a studio and digital portfolio of current art projects throughout the semester.

Semesters: 2 Grade Level: 9,10,11,12 Fee: \$50.00 for consumables materials

Required for Graduation: No

Studio Art or Adv. Studio Art: This course is designed to cover new media and techniques not covered in Art in Western Culture and to build on knowledge skills of familiar techniques. Individualized programs are designed to include in-depth studies in areas of student interest. **Semesters:** 2 **Grade Levels:** 11, 12 **Pre-requisite:** Successful completion of Art in Western Culture **Fee:** \$50.00 for consumable materials **Required for Graduation:** No

Art of the Theatre: This course is designed as a comprehensive introduction to the theatre. Throughout the year many aspects of the theatre will be explored. Through discussions, theatre games, acting exercises, character study, scene work, and vocal/body work, the student will gain an understanding of the actor's experience and the creative process. In addition to encouraging creativity and imagination, the course will also examine the making of a production, the role of the playwright and director, key points in theatre history, musical theatre, stagecraft, and the technical aspects of theatre. The course objective is to help students come to a personal appreciation of the theatre and discover how it may apply to their daily lives and future goals.

Semesters: 2 **Grade Level:** 9, 10, 11, 12 **Pre-requisite:** Willingness to participate in group activities and maintain a positive and enthusiastic attitude **Required for Graduation:** No

Drama or Adv. Drama: This course is for advanced drama students who are interested in continuing their study of dramatic skills and performing. The students in the drama class will workshop plays, and participate in advanced scene study and performance projects. The actors will delve deeply into character study, theatre games, various improvisation exercises, and extensive scene work. The class objective is to focus on the application of former knowledge. Participation in school productions is required. Additional rehearsal and performance time outside of class time is required.

Semesters: 2 **Grade Level:** 11, 12 **Pre-requisite:** Successful completion of The Art of Theater **Required for Graduation:** No

Choral Ensemble I: Chorus is designed for students who have little to no experience singing in an ensemble. The purpose of this course is to introduce the students to various forms of choral music and the fundamental elements of ensemble singing. This course encourages students to find and improve their own singing voice and contributing that voice into a larger musical expression. This course provides an introduction to music theory, sight singing, the study of the vocal apparatus, group voice lessons (vocal projection, tone and articulation), listening, identifying and analyzing various choral works, and basic choral ensemble work. Students may be required to perform at various liturgies, or school events based on their progress and development.

Semesters: 2 **Grade Level:** 9,10,11,12 **Required for Graduation:** No

Art of Photography: This is an introductory course in which students learn the art of digital photography. Students will learn the techniques of composing, shooting, and the application of rules of composition. Students will also learn to edit digital photographs using traditional techniques and graphics programs such as Photoshop. Students will visit photographic exhibits. All students will need access to a single-lens reflex digital camera. **Semesters:** 2 **Grade Level:** 11, 12 **Fee:** \$50.00 for consumable materials

Publications: The objective of this elective course is to produce the school's yearbook. The class also publishes a literary journal in the second semester. Students will learn basic elements of journalism and yearbook production. The class requires writing and several hours of after school field work on a regular basis. Students must commit to two semesters of work on publications.

Semesters: 2 **Grade Level:** 11, 12 **Pre-requisite:** Teacher recommendation

Required for graduation: No

HEALTH AND FITNESS DEPARTMENT

STUDENTS MUST COMPLETE ONE SEMESTER OF FITNESS FOR LIFE AND ONE SEMESTER OF HEALTH TO RECEIVE A VILLANOVA DIPLOMA.

Health: This course is designed to help students explore current health issues, evaluate personal attitudes towards health-related matters, and make informed decisions choosing health-enhancing behaviors. **Semesters:** 1 **Grade Level:** 9 **Fee:** \$10.00 book rental **Required for Graduation:** Yes

Fitness for Life: This course is designed to improve physical fitness through weight training, cardiovascular exercises, and games to ensure a lifetime of healthy physical habits. Students will study the concepts of fitness and nutrition while striving to achieve or maintain a healthy lifestyle.

Semesters: 1 **Grade Level:** 9 **Required for Graduation:** Yes

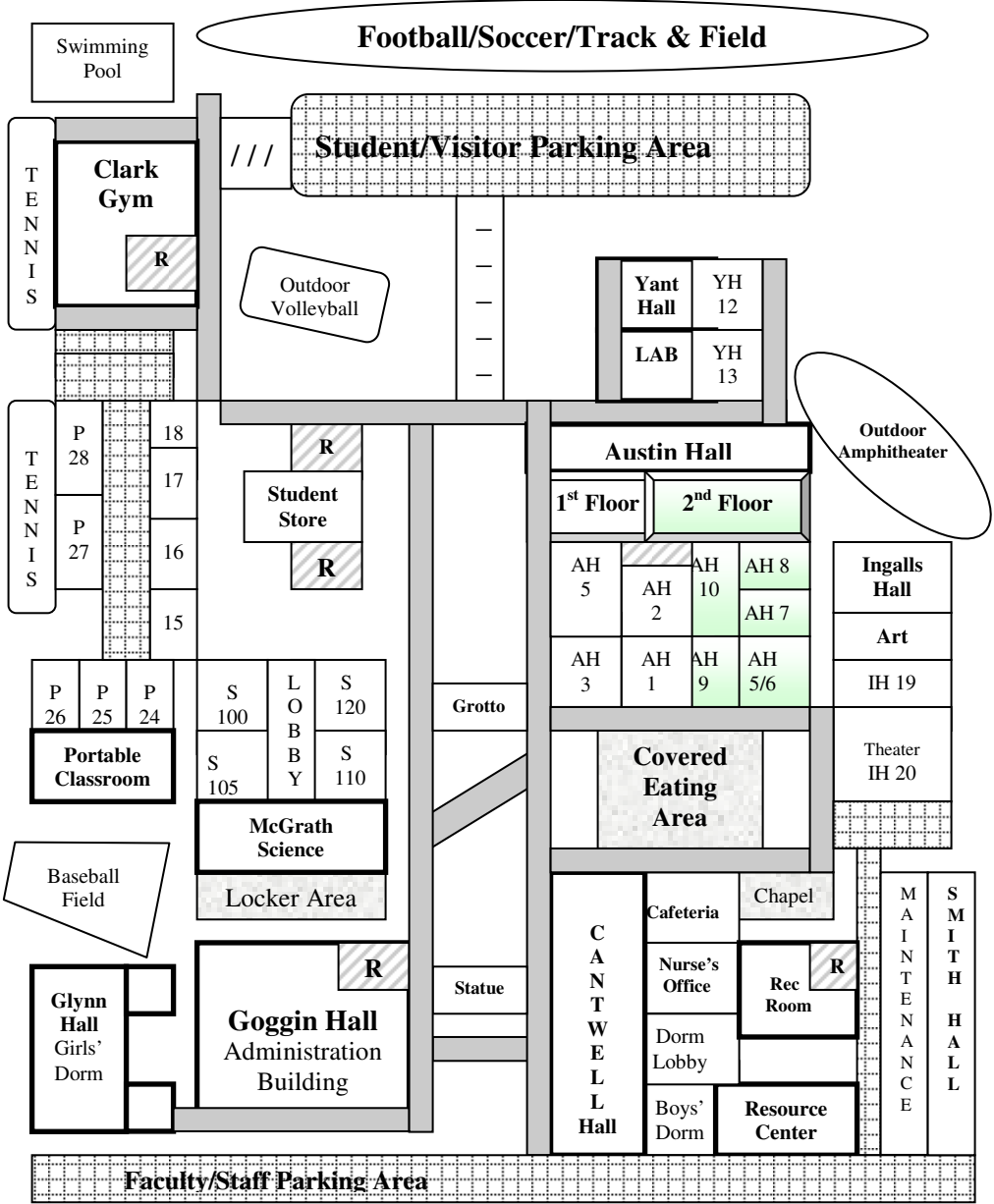
Traditional Prayer of Villanova Students

Direct we beseech You, O Lord, all our actions by Your holy inspiration and carry them out by your gracious assistance so that every prayer and good work of ours may always begin from You and by You be happily ended through Christ our Lord. Amen.

Leader: You have made us for Yourself, O Lord,
Response: and our hearts are restless until they rest in You.

St. Augustine, pray for us.
St. Monica, pray for us.
St. Thomas of Villanova, pray for us.

Villanova Campus Map



KEY	
AH-Austin Hall	G-Goggin Hall
IH-Ingalls Hall	P-Portable
R-Restrooms	Rec-Recreation Center
S-McGrath Science	YH-Yant Hall