

COLLEGE OF LIBERAL ARTS AND SCIENCES

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Set love as the criterion of all that you say, and whatever you teach, teach in such a way that the person to whom you speak, by hearing, may believe, by believing hope, and by hoping love.

THE INSTRUCTION OF BEGINNERS

St. Augustine

HISTORY

The College of Liberal Arts and Sciences of Villanova University was founded by the Augustinian Order in 1842. The College traces its origins to old St. Augustine's Church in Philadelphia, which the Augustinians founded in 1796, and to its parish school, St. Augustine's Academy, established in 1811.

In 1842 the Augustinians purchased "Belle Air," the country estate of John Rudolph, a Revolutionary War officer and Philadelphia merchant. There they established the "Augustinian College of Villanova," under the patronage of St. Thomas of Villanova, a 16th century Augustinian educator and Bishop of Valencia, Spain. Eventually the College came to be known as Villanova and gave its name to the town which grew up around it.

Classes for the new college began on September 18, 1843, when 13 students embarked on a traditional liberal arts curriculum. At the outset, however, difficulties plagued the new college. The anti-Catholic "Know Nothing" riots in Philadelphia in 1844 resulted in the burning of St. Augustine's Church. The need to rebuild the church and maintain the new college created a financial crisis for the Order. As a result, the College closed its doors on February 20, 1845. It was able to reopen in September, 1846, with a student population of 24; the first commencement took place on July 21, 1847. The following year, on March 10, 1848, the Governor of Pennsylvania, Francis R. Shunk, signed the Act of Legislature incorporating the College.

In 1857, Villanova College closed for a second time. Demands on the services of priests through the expansion of parishes in the area created staffing problems for the Augustinians, while the "Panic of 1857" brought on hard economic times. The onslaught of the Civil War in 1860 affected student enrollment, and the College was not reopened until September 1865.

In the years that followed, the College prospered, increasing its student population and adding significantly to its physical facilities. Although in the first 50 years of its existence the College concentrated exclusively on the liberal arts, it nevertheless remained open to the changes in curriculum which were required to meet the needs of the time and the demands for specialization.

Today, the College continues to offer a variety of educational programs that are aimed at the total growth of the individual and which prepare students for viable careers. Graduates of the College have taken their place in almost every field of endeavor, serving in education, business, government, law, medicine, and research, where they make vital contributions to the communities and the world in which they live.

ACADEMIC MISSION

The College of Liberal Arts and Sciences exists to provide an atmosphere of responsible learning to a varied group of students who are called to intellectual, moral, and professional leadership. To fulfill these goals, the College seeks to promote intellectual curiosity and rigor within the university; to instill the fundamentals of critical insight, mature judgment, and independent thinking; and to awaken in its students a sense of the importance of values and the moral responsibility of caring for others and working for the betterment of society.

Villanova has always openly and proudly declared that it is a Catholic institution of higher learning. The University maintains a strong respect for the beliefs of its diverse community of faculty, students, and staff. In keeping with its central place in a Catholic university, the College of Liberal Arts and Sciences has a special commitment to the Christian belief that creation is an expression of the divine truth through the redemptive life, death, and resurrection of Jesus Christ, the incarnate Word of God. It also seeks to provide a Christian intellectual and moral environment, and believes that it is the common right of all to participate in creation, to seek truth, and to apply such truth attained to protect and enrich personal and communal life.

Villanova's special Augustinian heritage enables the College to draw upon the dynamic legacy of St. Augustine, whose passionate pursuit of wisdom, understood through the metaphor of one heart and one mind, inspires its own quest for knowledge in open, intelligent, responsible, and mutually respectful interaction of points of view. This legacy is classically illustrated by the Augustinian Order's impact on the medieval universities, its distinguished cultivation of Renaissance art, and its fostering of the scientific discoveries of Gregor Mendel. It is further expressed in the conviction that all authentic human wisdom is ultimately in harmony with Divine Wisdom, and it invites collaboration with other Christians and peoples of other traditions who might share at least the general features and dynamics of this Augustinian vision.

In light of this legacy, the College has developed a diversified academic program and a core curriculum that provide students with a scale of well-defined universal values that equips them to be wise critics of the society in which they live, and which sustains a moral base and social consciousness that transcends economic barriers and questions of race, gender, and creed.

ACADEMIC GOALS

The academic mission of the College is intimately connected with its Core Curriculum. The courses in the Core Curriculum treat a broad range of disciplines from a variety of approaches; at the same time, the Core strives to ensure depth of study and

intellectual sophistication while recognizing that learning implies different modes of inquiry. The goals of the Core are to:

- ❑ Achieve a synthesis of knowledge that provides a basis for informed judgment, not simply “fact finding.” This includes learning to think and process information in a critical manner.
- ❑ Promote literacy as a foundation for intelligent discourse and the articulation of informed views. This goal acknowledges that literacy spans all disciplines, and undergraduates should demonstrate an ability to understand and utilize a wide variety of information (e.g., scientific, quantitative, cross-cultural, etc.) to articulate said views.
- ❑ Define culture in a broad sense, educating students to understand and to appreciate the interrelated patterns of customary beliefs and practices, social forms, aesthetics, and material traits that act to define a culture and its position within a larger historical and intellectual framework. Students should develop an understanding and appreciation of the diversity of cultures and experiences as well as the development of a multicultural and international perspective.
- ❑ Acknowledge that our world is vibrant and continuously redefined, not simply a static version of the past. Thus, we challenge students to understand that the present is recognizably formed from past influences. In order to assess the present and arrive at a view of its future, students must be trained to scrutinize and bring into perspective the relationship of the present day with that of the past.
- ❑ Prepare students to become active and responsible participants within society, developing an understanding of ethical responsibilities and valuing communal responsibilities.
- ❑ Encourage personal development in preparing students to regard themselves as citizens living in society, who have respect for the individual as well as the feeling of belonging to a world community.

MISSION TO STUDENTS, FACULTY, AND STAFF

The College strongly adheres to the principles of the University Mission Statement that commits Villanova to “developing and sustaining an academic environment in which the potentialities of its members may be realized.” In so doing, the College is guided by the teachings of Vatican II, which emphasized that “the human spirit must be cultivated in such a way that there results a growth in its ability to wonder, to understand, to

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contemplate, to make personal judgments, and to develop a religious, moral, and social sense” (Pastoral Constitution on the Church in the Modern World, 59).

In order to fulfill its academic mission of transmitting, pursuing, and discovering knowledge, the College commits itself to the hiring and retaining of outstanding teacher-scholars and dedicated staff personnel whose academic and professional interests will develop and foster the goals of the University’s mission. In hiring faculty and staff personnel, the College further commits itself to the goal of maintaining a richness of diversity by actively recruiting women and minorities. In all hiring strategies and decisions, the College strives to utilize procedures that will reliably determine the best qualified applicants.

While the College is committed to maintaining its Catholic identity, it does not seek a particular religious affiliation within its personnel. Rather, as formulated in the University’s mission, it asks that all respect its “attempts to develop an environment in which students, faculty, and staff may experience a Christian intellectual and moral perspective,” and have a willingness to enter into the conversation that gives its mission life and character.

The College is strongly committed to academic freedom that makes open discussion and inquiry possible. It believes open discussion among scholars and students is a self-correcting process that is intrinsic to academic freedom and that this process is in accord with responsible freedom, a central value of the Christian tradition, and of the thought of St. Augustine, the great theologian of Christian freedom.

The College seeks to encourage and equitably reward the valuable performance of its faculty and staff by offering competitive salaries and by making available opportunities that will enhance their professional development. It also seeks to promote a congenial work environment that is conducive to self-motivation. In recruiting students, the College seeks to ensure the best applicant pool possible. It strives to retain students by offering excellent academic programs and by providing them with quality campus activities.

LEARNING OBJECTIVES

Goal A. Achieve a synthesis of knowledge that provides a basis for informed judgment, not simply “fact finding.” This includes learning to think and process information in a critical manner.

Values Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their engagement in and commitment to the pursuit of knowledge in a manner conducive to life-long learning.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of: (1) the fundamental facts, concepts, responsibilities, and modes of inquiry related to their academic majors and professions; and (2) topics of personal and intellectual interest to them, pursued through their choice of elective courses and other means.

Skills Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate the following skills: (1) critical analysis; (2) creative problem solving; and (3) well-developed analytical skills.

Goal B. Promote literacy as a foundation for intelligent discourse and the articulation of informed views. This goal acknowledges that literacy spans all disciplines, and undergraduates should demonstrate an ability to understand and utilize a wide variety of information (e.g., scientific, quantitative, cross-cultural, etc.) to articulate said views.

Values Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate an appreciation for literacy in all its forms, including the way in which such information is gathered and expressed for the purpose of furthering intellectual discourse.

Values Objective: Graduates of the College of Liberal Arts and Sciences will comprehend the role and importance of scientific and technological literacy.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their ability to engage in intellectual discourse with well-developed oral and written communication skills.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their understanding of how technical/professional writing is accomplished within their academic majors.

Skills Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of: (1) how to acquire information that promotes the learning experience and the exchange of ideas; (2) appraise the value of such information in the current context; and (3) how to apply proper citation information for these materials.

Goal C. Define culture in a broad sense, educating students to understand and to appreciate the interrelated patterns of customary beliefs and practices, social forms, aesthetics, and material traits that act to define a culture and its position within a larger historical and intellectual framework. Students should develop an understanding and appreciation of the diversity of cultures and experiences as well as the development of a multicultural and international perspective.

Values Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their appreciation of the works produced by intellectual and artistic endeavors, at a level consistent with the requirements of their academic majors and/or their participation in co-curricular cultural activities.

Values Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate an attitude of concern for or interest in international and multicultural issues.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of the works produced by intellectual and artistic endeavors,

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at a level consistent with the requirements of their academic majors and/or their participation in co-curricular cultural activities.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their comprehension of cultural issues, including how multicultural and international perspectives can be incorporated into their own cognitive framework.

Skills Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate an understanding of other languages, including the ability to communicate (in both oral and written forms) using appropriate grammar and vocabulary in a variety of culturally-authentic and meaningful contexts.

Goal D. The educational program does not simply look to the past, but acknowledges that our world is vibrant and continuously redefined. Thus, we must challenge students to understand that the present is recognizably formed from past influences. In order to assess the present and arrive at a view of its future, students must be trained to scrutinize and bring into perspective the relationship of the present day with that of the past.

Values Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate an appreciation of how our historical perspectives are related to modern-day issues.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of the intellectual, ethical, and spiritual traditions of Western civilization, including Judaeo-Christian, Catholic, and Augustinian traditions and the values and moral principles inherent in them.

Goal E. Prepare students to become active and responsible participants within society by developing an understanding of ethical responsibilities and valuing communal responsibilities.

Values Objective: Consistent with their attainment of intellectual goals, Graduates of the College of Liberal Arts and Sciences will (1) treat others with compassion, civility, and respect; (2) demonstrate their acceptance of individual, cultural, social, and ideological differences; (3) accept the responsibilities of community membership; and (4) demonstrate respect for the natural environment.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of how major Western ethical traditions (especially those influenced by Jewish and Christian perspectives) apply to selected contemporary ethical problems.

Knowledge Objective: Graduates of the College of Liberal Arts and Sciences will demonstrate their knowledge of ethical practices within their academic majors.

Skills Objective: Graduates of the College of Liberal Arts and Sciences will (1) manage conflicts productively; (2) work together to accomplish common goals and further the

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common good; and (3) motivate and coordinate the efforts of others to work toward common goals.

Goal F. Encourage personal development in preparing students to regard themselves as citizens living in society, who have respect for the individual as well as the feeling of belonging to a world community.

Values Objective: Graduates of the College of Liberal Arts and Sciences will accept responsibility for the consequences of their own decisions and behavior.

Skills Objective: Graduates of the College of Liberal Arts and Sciences will (1) define a set of personal goals reflective of their values, capabilities, and interests; (2) demonstrate independence and self-direction in personal problem solving and goal attainment, including the ability to find and employ appropriate resources; and (3) establish rewarding relationships within their peer groups.

SPECIAL PROGRAMS

ACADEMIC SEMINARS IN WASHINGTON, D.C.

Villanova University in conjunction with the Washington Center sponsors intense two-week academic seminars in the District of Columbia in January, May, and August. Seminars do not interfere with the University calendar. Upon successful completion of the program, three elective credits are awarded the students. Program details are available in the Internship Office, 451 St. Augustine Center (610-519-4661).

CREDIT BY EXAMINATION

To encourage independent study and recognize personal knowledge and mastery of a subject matter, Villanova University provides qualified matriculated students with the opportunity to “test out” of certain courses. The student who successfully passes such an examination satisfies the requirements of and earns the credit for the respective course. For more information, see www.villanova.edu/artsci/creditbyexam. Also, you may contact the Dean’s Office, 105 St. Augustine Center for the Liberal Arts, 610-519-4600.

HEALTH AFFILIATION PROGRAM

(www.villanova.edu/artsci/healthprofessions)

Villanova University has Health Affiliation programs with a number of institutions including, the Drexel University, School of Medicine, Thomas Jefferson University College of Health Professions, the University of Pennsylvania School of Dental Medicine, The Pennsylvania College of Optometry. Applications to these programs must be received by the Office of University Admission no later than November 1. SAT I or ACT must be taken no later than October of the senior year. These programs are not available to transfer students.

HEALTH RELATED SCIENCE PRE-PROFESSIONAL ADVISING

(www.villanova.edu/artsci/healthprofessions)

The Health Related Science Adviser, John Friede, Ph.D.:

- ❑ Provides information to prospective students and their parents regarding Villanova University's programs in the sciences and how Villanova University can prepare them for careers in health related professions;
- ❑ Provides information to matriculated students on professional schools and their application processes;
- ❑ Prepares the evaluation materials for each Villanova student applying to a professional school in the health sciences; and
- ❑ Serves as the academic adviser for students accepted into the affiliation programs.

Additional information is available from the Health Science Adviser in 151 Mendel Science Center (610-519-4833) or from the Office of the Dean in the College of Liberal Arts and Sciences.

HONORS PROGRAM

Director: Edwin L. Goff, Ph.D.

Office: 103 St. Augustine Center for the Liberal Arts

Tel. (610) 519-4650

Website: www.honorsprogram.villanova.edu

Course descriptions: www.artsci.villanova.edu/courses/honors

The University Honors Program is a comprehensive four-year curriculum of small seminars designed to foster the free and open exchange of ideas among students and faculty. Honors courses emphasize extensive reading and writing, and attempt to develop the critical abilities of judgment and analysis. Innovative courses include team-taught seminars and seminars given by visiting professors. All Honors courses are enriched by a variety of lectures, cultural events, and social activities.

Students in the College of Liberal Arts and Sciences may pursue the degree of B.A or B.S. Honors Program. The Honors Program Sequence in Liberal Studies (the Honors Program Interdisciplinary Concentration) is open to students in all colleges.

Acceptance: Admission to the University Honors Program is by invitation or by application to the Director. Members of the Program are expected to take Honors courses at least every third semester, and to maintain high academic standards (At least a 3.33 overall QPA). Individual Honors courses are open to all Villanova students who have at least a 3.0 overall QPA or will bring a special expertise to the course, contingent upon class size limitations. Admission to all Honors courses requires the permission of the Director.

INTERNATIONAL STUDIES

The College of Liberal Arts and Sciences strongly encourages all majors in the College to consider studying overseas in a foreign university for a summer, a semester, or for a year during the sophomore or junior years at Villanova. Students may study subjects in their major, minor or concentrations, strengthen their modern language skills, or complete Core course requirements through Overseas Programs. In any case, students normally enhance past skills such as high school languages learned but no longer studied due to heavy course requirements at Villanova, work toward a career path through overseas internships, gain fluency in language currently being studied, or begin learning a language. Interested students should see the detailed discussion of International Studies in the Villanova University section of this catalog.

INTERNSHIPS

The College of Liberal Arts and Sciences provides its students with the opportunity to earn course credit in departmentally related and academically creditable internships. Internships for academic credit must be directly related to a student's major, minor, or concentration. Internships are not restricted to the Delaware Valley, and might take place in Washington, D.C., as well as other parts of the country. Qualified juniors and seniors with a 3.0 QPA are eligible to participate in the program. Internships last for the semester and can be either full-time or part-time. They are also available during the summer sessions. Program details are available from the Internship Director, St. Augustine Center for the Liberal Arts, Room 415 (610-519-4232).

NATIONAL FELLOWSHIP AND SCHOLARSHIP ADVISEMENT

(<http://www.villanova.edu/artsci/college/academics/curf/>)

Villanova University provides comprehensive advisement for students who pursue prestigious national scholarship and fellowship opportunities, including the Truman, Goldwater, Udall, Fulbright, Marshall, Rhodes, National Science Foundation, Hughes, Mellon, and Ford Foundation. A mentoring program is administered by the Center for Undergraduate Research and Fellowships, and begins as early as an undergraduate student's first year. In recent years, more than 135 students have received formal recognition from these various national scholarship programs. Center for Undergraduate Research and Fellowships. Ms. Jane Morris, Director, 138 St Augustine Center for the Liberal Arts, 610-519-5928.

PHI BETA KAPPA

Phi Beta Kappa is the National Honors Fraternity for Colleges of Liberal Arts and Sciences. It was founded at the College of William and Mary in 1776. Since that time, its rigorous and comprehensive standards have made election to it a premier sign of excellence. Villanova University became one of the colleges and universities to shelter a chapter when the Sigma of Pennsylvania Chapter of Phi Beta Kappa was installed at Villanova in April 1986. The Phi Beta Kappa standards reflect the highest ideals of liberal education at Villanova: education that is concerned with values as well as facts,

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and wisdom as well as knowledge; education that seeks freedom from ignorance, alienation, and inhumanity; that values intellectual integrity and tolerance over expediency, and breadth of scholarly achievement over specialized expertise.

Juniors and seniors who are candidates for a degree in the College of Liberal Arts and Sciences, whose academic achievements reflect the goals of Phi Beta Kappa, and who meet the following specific criteria shall be eligible for consideration for election to Phi Beta Kappa:

- ❑ Candidates must have completed three semesters of work in the College of Liberal Arts and Sciences and be fully registered for a fourth.
- ❑ Candidates must have a grade point average of at least 3.50 (3.80 to be elected as a junior).
- ❑ At least three-fourths of a candidate's academic work must have been taken in the liberal arts and sciences, as distinct from applied or professional work.

In choosing candidates for election, the Chapter seeks evidence of academic achievement that is of exceptional distinction, and gives weight to the breadth and the quality of the overall program of courses taken by each candidate.

Election to membership in Phi Beta Kappa is wholly within the discretion of the members of the Chapter, subject only to the limitations imposed by its Constitution and By-Laws. Fulfillment of the minimum qualifications does not assure election to the membership.

ROTC NAVY (www.nrotc.villanova.edu)

Villanova University, in a long-standing relationship with the United States Navy, maintains one of approximately 60 Naval Reserve Officer Training Corps units in the United States. The mission of the NROTC program is to develop midshipmen morally, mentally and physically, and to imbue them with the highest ideals of duty, honor and loyalty. They must possess a basic professional background, be motivated towards a career in the Naval Service and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship and government. Commissions as Ensign or 2nd Lieutenant are awarded upon successful completion of prescribed naval science courses and graduation from the University. These commissioned officers will serve on active duty for a minimum period of four to ten years, depending upon choice of warfare specialty.

Participation in the NROTC Unit is through either the Scholarship or College Programs. Students in the NROTC Scholarship Program (national selection competition) receive a substantial subsidy from the Navy, including tuition, books, and fees. A monthly subsistence allowance is also provided as follows: Freshman \$250, Sophomores \$300, Juniors \$350, and Seniors \$400. Midshipmen participate in three summer cruises on board various naval ships and installations and receive active duty pay while on these cruises.

NROTC College Program students (Non-Scholarship) apply directly to the Villanova NROTC Unit, usually prior to or early in the fall semester of their freshman year. Students in the College Program receive no government subsidy until their junior and senior years, during which they receive a monthly subsistence allowance of \$350 for

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Juniors and \$400 for Seniors. They participate in one summer cruise and receive active duty pay while on cruise. Scholarships are available each year to those NROTC College Program students who stand at or near the top of their College Program class in terms of overall academic performance and aptitude for commissioned service. The Professor of Naval Science nominates College Program students for these scholarships with the selection being made by the Commander, Naval Service Training Command (NSTC).

In addition to the four-year programs described above, two-year NROTC Scholarships and two- or three-year Tweeddale Scholarships are available. Both may be offered to college students who have not previously participated in an ROTC or Service Academy commissioning program. Tweeddale is a specialized scholarship designed to attract students in technical majors, engineering specialties in particular. Students must apply for these programs early in the spring semester of their sophomore year (or as early as the spring semester of their freshman year for Tweeddale Scholars). Application packages are normally due to NSTC by 31 March each year. Those selected for the two-year programs must successfully complete a six-week training course at Newport, RI, during the summer preceding their junior year. Upon enrollment in the NROTC Program at the beginning of their junior year, two-year program students have the same benefits (tuition, books, fees and stipend), and assume the same active duty obligation, as four-year program students.

All Scholarship and College Program students may select any major at the University; however, a shift in Navy Policy has placed great emphasis on students who excel academically in technical majors and some foreign languages. Midshipmen at Villanova study in a wide variety of majors in engineering, arts, sciences, business, and nursing. Detailed NROTC information may be obtained from the Naval Science Office, Room 103, John Barry Hall.

NOTE: Applicants for the NROTC Program are not relieved of the necessity for payment of the registration deposit required by their letter of acceptance for admission to Villanova University.

ROTC ARMY (www.widener.edu/rotc or www.armyrotc.villanova.edu)

Villanova students are eligible to participate in the Army Reserve Officers' Training Corps (ROTC) Program through a partnership agreement with the Widener University Department of Military Science. Army ROTC offers students the opportunity to graduate with a college degree and commission in the United States Army, Army National Guard, or United States Army Reserve. All Army ROTC classes are conducted on the Villanova University campus.

The Army ROTC Program involves undergraduate courses taken during the freshmen and sophomore years, and advanced courses taken during junior and senior years. Students may enroll in the introductory courses without incurring any military or financial obligation and may withdraw at any time, subject to Villanova University's course withdrawal policy. Students who participated in Junior ROTC in high school or have prior military service may receive placement into the advanced courses as determined by the Army Professor of Military Science. The introductory course requirements may also be satisfied through attendance at the 28-day Leader's Training Course (LTC) at the end of the sophomore year. Students in the advanced courses are required to attend the 33-day Leadership Development and Assessment Course (LDAC)

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between their junior and senior years. Students enrolled in the advanced courses receive a stipend of \$350 to \$400 per month and may incur an active duty obligation of up to three to four years. National Guard and Reserve Forces options are also available.

Nursing students who complete the four-year or two-year program, obtain their Nursing Degree, and pass the Nursing Board Examinations are commissioned into the Army Nurse Corps.

Four-year, three-year, and two-year Army ROTC scholarships are available on a competitive basis. Scholarships pay up to \$20,000 per year for tuition, \$900 annually for books, and a tiered \$250-400 per month stipend. Additionally, up to five four-year scholarship winners receive full tuition payments through an agreement with Villanova University.

Applications for the three-year Army ROTC scholarships should be submitted early in the spring semester of the freshman year; applications for the two-year Army ROTC scholarships should be submitted early in the sophomore year. Applications for attendance to the LTC must be submitted early in the spring semester of the sophomore year.

Detailed information may be obtained from the Scholarship and Enrollment Officer, Widener University, Chester, PA 19013, (610) 490-7035 / 4098 or by the Villanova Campus Army ROTC representative at 610-519-5953.

ROTC AIR FORCE (www.sju.edu/academics/cas/afrotc/)

Villanova students are eligible to participate in the Air Force Reserve Officer Training Corps (AFROTC) through a cross-enrollment agreement with Saint Joseph's University. All Aerospace Studies courses are held on the Saint Joseph's campus. The AFROTC program enables a college student to earn a commission as a Second Lieutenant in the U. S. Air Force while concurrently satisfying requirements for his/her baccalaureate degree.

The program of Aerospace Studies offers a one to four year curricula leading to a commission as a Second Lieutenant in the Air Force. Students are under no contractual obligation to the Air Force until they accept an Air Force scholarship as sophomores or higher or enter the Professional Officer Corps.

Air Force ROTC offers 1, 2, 3 and 4 year scholarships on a competitive basis to qualified applicants. Four-year scholarships are available to high school seniors in various fields. The scholarships are offered to cadets enrolled in the AFROTC program and to college entrants to AFROTC. All scholarships cover tuition, lab fees, reimbursement for books, plus a \$250-\$400 tax-free monthly stipend, depending on academic year.

Detailed information may be obtained from the Professor of Aerospace Studies, AFROTC Det 750, Saint Joseph's University, Philadelphia, Pennsylvania 19131, (610) 660-3190.

TEACHER CERTIFICATION ELEMENTARY EDUCATION

Chair: John Durnin, Ph.D.

Office: 302 St. Augustine Center for the Liberal Arts; Tel. (610) 519-4620

Web site: <http://www.villanova.edu/artsci/education/undergrad/elementaryed.htm>

Villanova, in cooperation with neighboring Rosemont College, offers students a program leading to a Pennsylvania-approved program in elementary education certification. Students planning to teach are admitted to the teacher certification program in the sophomore year after interviews and scholastic averages indicate they have the acceptable qualifications. A Villanova student may be recommended for certification in elementary education by Rosemont College by satisfactorily completing (1) all major and core requirements of Villanova University, (2) the professional education requirements of Rosemont College, and (3) the necessary psychology and education courses at Villanova.

Interested students must make application to the Chair of the Department of Education and Human Services, 302 St Augustine Center in the fall semester of their sophomore year and must have achieved a cumulative grade point average of 3.00. An interview with the Director of the Education Program at Rosemont College is required. A limited number of students may be accommodated in this program. Students should arrange their own transportation.

Students in the Elementary Education Program are required to complete professional courses and student teaching during the first semester of the senior year. To be eligible for the student teaching experience, students must fulfill the following requirements:

- A cumulative grade point average 3.00 with a minimum grade of B- in each required professional course.
- A cumulative grade point average of 3.00 in the student's major and a recommendation from the Villanova department chairperson.
- Doctor's certification of physical and mental health.

See the Web site above for more information.

TEACHER CERTIFICATION SECONDARY EDUCATION PROGRAM

Chair: John Durnin, Ph.D.

Office: 302 St. Augustine Center for the Liberal Arts; Tel. (610) 519-4620

Web site: <http://www.villanova.edu/artsci/education/teachercert/>

Villanova University's secondary teacher education program is approved by the Pennsylvania Department of Education as satisfying the requirements for teacher certification in 14 subject areas. Students with majors in departments other than Education and Human Services may be admitted to the teacher education program upon

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the approval of the Undergraduate Committee. Students admitted to the teacher education program must complete the same requirements as Education majors, including student teaching. Student Teaching is normally taken in the second semester of the senior year. Undeclared Arts students who may be interested in Secondary Teacher Certification should stop by the Office of Education and Human Services, 302 St. Augustine Center for the Liberal Arts, as soon as possible.

Students enrolled in the Teacher Education Program will have their work reviewed each semester by a department committee to determine progress and professional development for certification. Students must achieve a 3.0 overall GPA before they are permitted to do student teaching. Students who do not achieve the required cumulative average by spring semester senior year will not be allowed to continue in the education major. Upon successful completion of the major and the National Teachers Examination (NTE/Praxis) in communication skills, general knowledge, professional knowledge, and subject specialization, the student will be eligible for certification.

THE BACCALAUREATE DEGREE

GENERAL REQUIREMENTS

Every degree program in the College of Liberal Arts and Sciences is made up of three components: the Core Curriculum, Courses in the Major, and Free Electives. The Baccalaureate degree is awarded when the curriculum prescribed by the College for one or more of the various degree programs has been satisfied. Candidates for graduation must meet all of the following seven requirements:

- ❑ A minimum of 40 courses of three or more credits and two labs (science degrees vary according to major), which include the successful completion of the Core Curriculum, academic major requirements, and free electives;
- ❑ A cumulative GPA of at least 2.000. (Science students must also have a minimum technical grade point average of at least 2.000);
- ❑ At least half of the Core Curriculum requirements must be fulfilled at Villanova University;
- ❑ At least half of the requirements for the major must be fulfilled at Villanova University;
- ❑ The final 30 credits of the degree program must be earned at Villanova University;
- ❑ A minimum of 122 credit hours; and
- ❑ At least 61 credits must be earned at Villanova University.

DEGREE PROGRAMS

Bachelor of Arts with majors in:

Art History Humanities

Villanova University

Classical Studies** Human Services
Communication** Italian
Criminal Justice ** Philosophy
Economics Physics
Education (Secondary) Political Science**
English Psychology**
Environmental Studies Sociology
French and Francophone Studies Spanish**
Geography Theology and Religious Studies**
Global Interdisciplinary Studies
History

Bachelor of Arts, Honors

Bachelor of Science with majors in

Astronomy and Astrophysics Computer Science**
Biology** Environmental Science
Biochemistry Comprehensive Science
Chemistry** Mathematics**
Physics

Bachelor of Science, Honors

** Indicates the opportunity for integrated Bachelor's/Master's program

INTERDISCIPLINARY CONCENTRATIONS

In addition, interdisciplinary concentrations are available in:
Africana Studies Irish Studies
Arab and Islamic Studies Latin American Studies
Augustine in Dialogue with Faith and Culture Peace and Justice
Cognitive Science Russian Area Studies
East Asia Studies Writing and Rhetoric
Ethics
Elementary Education (in conjunction with Rosemont College)
Gender and Women's Studies
Honors (Arts)

MINORS

In addition to most of the above, minors are also available in
Aerospace Studies (Air Force ROTC) Military Science (Army ROTC)
Arabic Naval Science (Navy ROTC)
Business Russian
Chinese Theater
Criminal Justice

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Japanese

See the Majors, Interdisciplinary Concentrations, and Minors Section for detailed information on requirements for each of these degrees, interdisciplinary concentrations, and minors.

See the Part-time Studies Catalog for information on the Bachelor of Interdisciplinary Studies Degree (BIS), the Bachelor of Arts in General Arts, and the Associate Degrees.

THE CORE CURRICULUM

Every degree program in the College of Liberal Arts and Sciences is made up of three components: the Core Curriculum, Courses in the Major, and Free Electives.

The courses in the Core Curriculum treat a broad range of disciplines from a variety of approaches; at the same time, the Core strives to ensure depth of study and intellectual sophistication while recognizing that learning implies different modes of inquiry. Fact learning alone is not enough to justify the existence of a Core Curriculum; rather the purpose of the core is to achieve a synthesis of knowledge that provides a basis for informed judgment. The Core also seeks to promote literacy as a foundation for intelligent discourse and the articulation of informed views.

The Core aims to advance culture in a broad sense, training students to understand and to appreciate the interrelated patterns of customary beliefs and practices, social forms, aesthetics, and material traits that act to define a culture and its position within a larger historical and intellectual framework. This educational program does not simply look to the past, but acknowledges that culture is vibrant and continuously redefined. The Core challenges students to understand how the present is recognizably formed from past influences, and that in order to assess our culture and arrive at a view of its future, students must be trained to scrutinize and bring into perspective the relationship of the present culture with that of the past.

In fostering active participation in learning, the Core prepares students to become active participants within society, to engage in the process of informed political debate, and to encourage an understanding and appreciation of the diversity of cultures and experiences, a respect for the individual, and the development of a multi-cultural and international perspective. The Core thus encourages personal development in preparing students to regard themselves as citizens living in a democratic society, as belonging to a world community, and as therefore having communal responsibilities.

SUMMARY OF CORE CURRICULUM COURSE REQUIREMENTS

- 1) Augustine and Culture Seminar (ACS)..... 2 courses
- 2) College Ethics1 course
- 3) Fine Arts.....1 course
- 4) Foreign Language..... 2 courses
- 5) History..... 2 courses

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- 6) Literature..... 2 courses
- 7) Mathematics 1 course
Mathematics/Computing Science..... 1 course
- 8) Philosophy..... 2 courses
- 9) Theology and Religious Studies..... 2 courses
- 10) Social Sciences..... 3 courses
- 11) Natural Sciences..... 2 courses w/labs

Distribution Requirements

The core courses listed above, courses required by the Major, and available electives must have attributes that include the following: five writing intensive courses, three writing enriched courses, and two diversity courses.

For more detailed information concerning Core Curriculum requirements, see the Undergraduate Handbook, Enchiridion, at:

<http://www.villanova.edu/artsci/handbook/index.htm>

ADVANCED PLACEMENT AND INTERNATIONAL BACCALAUREATE CREDIT

Students should request that the College Board send AP scores to Villanova University (our code is 2959). AP scores are received in the Registrar's Office and forwarded to our Dean's Office, where the determination on credit is made. Most AP scores for incoming freshmen reach Villanova by mid-July. If the scores are received before freshmen classes begin, a representative of the Dean's Office will communicate with the student, then authorize the Registrar's Office to post the appropriate credit to the academic record. For scores received after classes begin, this representative will simply direct the Registrar to add any credit they approve. AP credits appear in the "Transfer Credit" area of the student record.

Incoming students who have taken Advanced Placement (AP) or International Baccalaureate Higher Level (IB) exams should inform their Academic Advisor and should report to the Dean's Office during the first week of classes to verify Villanova's receipt of the official scores and to ensure that proper adjustments have been made to their academic record. In some instances scores are sent to the Villanova Registrar after courses have been assigned based on the student's response to the Incoming Students Questionnaire.

The guidelines for granting credit for courses that are equivalent are shown on the following page. Please consult the Dean's Office for guidelines regarding equivalency for International Baccalaureate courses. The following is the list of tests and scores and their application to the baccalaureate degree.

The first table is a list of AP tests; the second is a list of Higher Level IB tests and scores.

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ADVANCED PLACEMENT 2008-2009 <i>Subject-Test Number</i>	SCORE OF 3		SCORE 4 OR 5	
	COURSES	CR.	COURSES	CR.
AMERICAN HISTORY –(07)			HIS 2000 HIS 2001	3 3
STUDIO ART – (14)	PLACEMENT ONLY		PLACEMENT ONLY	
STUDIO ART – (15)	PLACEMENT ONLY		PLACEMENT ONLY	
BIOLOGY – (20)			BIO 2105 BIO 2106	4 4
CALCULUS AB – (66)			MAT 1500 MAT 1505	4 4
CALCULUS BC – (68)			MAT 1500 MAT 1505	4 4
CALCULUS SUBGRADE- (69)			MAT 1500 MAT 1505	4 4
CHEMISTRY – (25)			CHM 1103 CHM 1104 CHM 1151 CHM 1152	1 1 4 4
CHINESE LANGUAGE AND CULTURE – (28)			CHI 1111 CHI 1112	6 6
CLASSICS: VIRGIL – (60)			LAT 1121	3
CLASSICS: HORACE CATULLUS – (61)			LAT 1122	3
COMPUTER SCIENCE A – (31)			CSC 1051	4
COMPUTER SCIENCE AB – (33)			CSC 1051	4
ECONOMICS: MICRO – (34)			ECO 1001	3
ECONOMICS: MACRO – (35)			ECO 1002	3
ENGLISH LANGUAGE AND COMPOSITION – (36)	PLACEMENT ONLY		ENG 1050	3
ENGLISH LITERATURE & COMPOSITION – (37)	PLACEMENT ONLY		ENG 1050	3
EUROPEAN HISTORY – (43)			HIS 3095 HIS 3995	3 3
HISTORY OF ART – (13)			AAH 1101 AAH 1102	3 3
MODERN LANGUAGE FRENCH – (48) OR (51)	PLACEMENT ONLY		FRE 1121 FRE 1122	3 3
HUMAN GEOGRAPHY – (53)			GEO 1001	3
MODERN LANGUAGE GERMAN – (55)	PLACEMENT ONLY		GER 1121 GER 1122	3 3
MODERN LANGUAGE ITALIAN– (62)	PLACEMENT ONLY		ITA 1121 ITA 1122	3 3
JAPANESE LANGUAGE AND CULTURE -- (64)			JPN 1111 JPN 1112	6 6
MODERN LANGUAGE SPANISH – (87) OR (89)	PLACEMENT ONLY		SPA 1121 SPA 1122	3 3
PHYSICS C: MECHANICS – (80)			PHY 1100 PHY 1101	3 1
PHYSICS C: ELECTROMAG – (82)			PHY 1102 PHY 1103	3 1
POLITICAL SCIENCE – (57)			PSC 1100	3
POLITICAL SCIENCE – (58)			PSC-1875	3
PSYCHOLOGY – (85)			PSY 1000	3
STATISTICS – (90)			MAT 1230	3
WORLD HISTORY – (93)	PLACEMENT ONLY		HIS 1040 HIS 1050	3 3

**INTERNATIONAL BACCALAUREATE CREDIT
AND COURSE EQUIVALENCE
NOTE: CREDIT IS ONLY GIVEN FOR HIGHER LEVEL EXAMS**

SUBJECT	SCORE OF 5	CR	SCORE OF 6 OR 7	CR
ANTHROPOLOGY			SOC 2100, SOC 4000	6
BIOLOGY			BIO 2105, BIO 2106	8
CHEMISTRY			CHM 1151, CHM 1152	8 OR 10*
COMPUTER SCIENCE HL	CSC 10510	4	CSC 1051	4
INFORMATION TECHNOLOGY	CSC 1030	3	CSC 1030	3
ECONOMICS	ECO 1001, ECO 1002	6	ECO 1001, ECO 1002	6
ENGLISH	ENG 1010, ENG 1050	3	ENG 1010 OR ENG 1050	3
FRENCH A	PLACEMENT	0	FRE 1121, FRE 1122	6
GEOGRAPHY	GEO 1001	3	GEO 1001	3
GERMAN A	PLACEMENT	0	GER 1121, GER 1122	6
HISTORY AMERICAS		0	HIS 2000, HIS 2001	6
HISTORY EUROPE		0	HIS 3095, HIS 3995	6
LATIN	PLACEMENT	0	LAT 2031, LAT 2032	6
MATHEMATICS			MAT 1500	4
MATH FURTHER	MAT 1500	4	MAT 1500, MAT 1505	8
MUSIC			SAR 3000	3
PHILOSOPHY	PLACEMENT	0	PHI 1050, PHI 2950	6
PHYSICS			PHY 2410/11, PHY 2412/13	8
PSYCHOLOGY			PSY 1000	3
SPANISH A	PLACEMENT		SPA 1121, SPA 1122	6

- Sample of lab work needed for approval of lab courses CHM 1103 and CHM 1104

FOREIGN LANGUAGE PLACEMENT

- All students who decide to continue their study of French, German, Italian, or Spanish from high school in order to fulfill the Core Curriculum requirement of two courses at or above the intermediate-level are required to complete the online

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language placement examination for the language in which they will enroll by June 15.

- ❑ The online language placement examination consists of questions on vocabulary, grammar, and reading comprehension and generally takes about 25 minutes to complete. Based on the results of the test and a number of other factors (such as the number of years of study of the language in high school, study or time abroad, etc.), the student will be placed at the appropriate level by professors of the language of choice and automatically registered for the appropriate course. For important additional information on the online placement exam and to take the online examination, please visit: <http://www.villanova.edu/artsci/modernlanglit/about/languagerequirements/placementtest>
- ❑ Please note that if you have never studied French, German, Italian, or Spanish and wish to do so to meet the Core Curriculum language requirement, you must register for the first semester introductory course of the language, Introductory I, numbered 1111. You do not have to take the online placement examination, but remember that in this case, you must successfully complete four semesters of that language.
- ❑ As an alternative to meet the language requirement, students may choose the two-semester introductory sequence in either Arabic, Chinese, Classical Greek, Japanese, or Russian.

MATHEMATICS PLACEMENT

The Core Curriculum requirement for all students in the College of Liberal Arts and Sciences is two courses. For Science students, it is two Math courses. For Arts students, one course has to be Math and the second course can be either Math or Computer Science. All incoming students to the College of Liberal Arts and Science take a Math or Computer Science course in the first semester. A student's potential choice of major and career plan affects his or her choice of Mathematics.

1. Health Professions, one of the following sequences:
 - Preferred: MAT 1310 and 1315, Calculus for Life Science Applications
 - MAT 1320 and 1325, Calculus for Liberal Arts
 - MAT 1500 and 1505, Calculus
2. The Sciences
 - Biology- MAT 1310 and 1315
 - Chemistry, Computer Science, Comprehensive Science Mathematics, Physics - MAT 1500 and 1505
3. Naval Science, one of the following sequences:
 - MAT 1500 and 1505, Calculus
 - MAT 1320 and 1325, Calculus for Liberal Arts

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- MAT 1310 and 1315, Calculus for Life Science Applications

4. Interdisciplinary Concentrations

- Environmental Studies- MAT 1230, Introductory Statistics and one course in Calculus

5. Business Minor

- MAT 1230 and 1235, Introductory Statistics I and II

6. Arts Students

- Two Math courses. They do not have to be in the same sequence. A student could choose an introductory calculus course and an introductory statistics course; or
- A Math course and a computer science course.

TRANSFER CREDIT

Students who have taken college courses at another institution prior to attending Villanova, must present the necessary course descriptions and other documentation as needed to the Dean's Office before or during their first semester at Villanova. Credit for courses taken at two-year institutions (community colleges) will be considered for transfer only if the courses were taken prior to matriculation at Villanova. However, once a student has been matriculated at Villanova, no credits may be transferred from two-year institutions. Transfer credit will not be awarded for college level courses that are used to meet high school graduation requirements.

Courses will be given consideration for transfer credit only upon receipt of a seal-bearing, official transcript sent by mail to the College, and, upon request, an official course description (e.g., from a course catalog). If such courses are not presented for evaluation during the first year, no future possibility for evaluation or credit will exist. Transfer credit will be awarded only for approved courses in which a student earns a grade of "C" or better. The actual grade received at the other institution (earned either before attending Villanova or earned during a summer) is not calculated into the student's cumulative grade point average.

Transfer credits (along with AP credit) may be used for no more than half the courses required for the degree, no more than half the courses for the major, minor or concentration and no more than half the courses required for the core curriculum. Transfer students must have completed three academic semesters at Villanova before being eligible to study abroad during the academic year. No more than four Web or distance learning courses may be applied to a student's degree. With the official transcript the transferring student must identify such courses that appear on their transcript.

Transfer Credit will not be awarded for Accelerated or Fast Forward courses. In order for a non professional three-credit course to be considered for transfer credit, the course must have met on at least 15 different days and with a minimum total meeting time of at least 37 hours. For courses in question, the student must provide documentation

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stating the manner in which the course was taught along with the official transcript. Courses in professional studies will be evaluated on a case-by-case basis. The College reserves the right to test the student to assess course outcomes.

ACADEMIC ADVISING

ACADEMIC ADVISING OFFICE

451 St. Augustine Center for the Liberal Arts
Nancy Allen, Ph.D., Director
Lynda Capuzzi, Associate Director
Trudi Tedjeske, Assistant Director
Kathleen M. Moore, Advising Coordinator
Joyce Harden Administrative Assistant

www.villanova.edu/arts/college/advising
as.advising@villanova.edu
610-519-4661 or 610-519-8900

The Academic Advising Office in the College of Liberal Arts and Sciences reinforces the College's mission by emphasizing the holistic education of each student. The academic advisor balances support for students learning to navigate a new intellectual and social environment and the challenge to students to be active learners who synthesize knowledge and understanding from curriculum and co-curricular activities. Faculty advisors and students create a learning community where learning-centered, active learning is fostered. Academic Advising is a dynamic process through which students and faculty work together to develop a program of study that addresses each student's academic and professional goals.

Each student in the College of Liberal Arts and Sciences is assigned an academic advisor during the summer before the First-Year. The faculty advisor calls each student to welcome him or her to Villanova and answer any questions. In Orientation, faculty advisors begin a conversation with students about the value of a Liberal Arts and Sciences education, asking questions that will lead students to explore academic majors as well as possible professional or career interests.

Faculty advisors create appropriate boundaries with student advisees, knowing when a student needs to be referred to other University personnel. At the same time, faculty advisors have an understanding of the developmental as well as the intellectual needs of students and are open to discussion about how personal development affects professional development.

Faculty advisors are generalists, understanding the curriculum of all academic departments and the importance of extra-curricular activities including service learning, internships, and study abroad. Faculty advisors for students admitted as Undeclared Arts and Undeclared Science students come from all academic disciplines and include faculty

who teach our interdisciplinary Augustine and Culture Seminars. Faculty advisors for students admitted to science majors have an advisor from the academic department.

While faculty advisors will refer students to the Learning Support Services Office, The Writing Center, The Math Learning Resource Center, and to academic departments for needed tutoring, The Academic Advising Office offers workshops throughout the academic year on time management, study skills, and other topics important for academic success. Students on academic probation or with low grade point averages at the end of a semester may be required to attend academic support workshops and to meet with the faculty advisor on a more frequent basis until the deficiency is corrected.

The Academic Advising Office staff works with faculty advisors to assist students in creating linkages between academic goals and career or professional goals. To this end, we invite alumni to campus to share how their Villanova experience shaped their personal and professional development. Workshops are also offered on topics such as Professional Opportunities, Devising a Professional Development Plan, and Professional Writing.

Undeclared science students are required to declare the major at the end of the First-Year; undeclared Liberal Arts students are required to declare the major during the second semester of the sophomore year. At the time that the student declares the academic major, a new faculty advisor is assigned who provides direction for students in the chosen discipline.

Many students in the College of Liberal Arts and Sciences decide to attend graduate school. Faculty advisors in each academic department provide direction, advice, and resources for students who want to apply to graduate school. The College also provides the following resources to assist students: National Fellowship Advisement; Health Professions Advisor; and Law School Advisor.

NATIONAL FELLOWSHIP ADVISEMENT

Center for Undergraduate Research and Fellowships
Ms. Jane Morris, Director
138 St Augustine Center for the Liberal Arts
610-519-5928
<http://www.villanova.edu/artsci/college/academics/curf/>

Villanova University provides comprehensive advisement for students who pursue prestigious national scholarship and fellowship opportunities, including the Truman, Goldwater, Udall, Fulbright, Marshall, Rhodes scholarships, and fellowships awarded by the National Science Foundation, Hughes, Mellon, and Ford foundations. A mentoring program is administered by the Office of Undergraduate Grants and Awards and begins as early as an undergraduate student's first year. In recent years, more than 135 students have received formal recognition from these various national scholarship programs.

LAW SCHOOL ADVISOR

Karen M. Graziano, J.D.
402 St. Augustine Center for the Liberal Arts
610-519-7427

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www.villanova.edu/artsci/college/advising/development/law

There are no suggested majors or a pre-defined list of courses recommended by law schools, the Pre-Law Advisors Council, or by the Association of American Law Schools for students interested in a legal career. The Law School Admissions Council (LSAC) states, “Law schools want students who can think critically and write well, and who have some understanding of the forces that have shaped the human experience. These attributes can be acquired in any number of college courses, whether in the arts and humanities, the social sciences, or the natural sciences.” Students considering a legal career should choose a major that is of interest to them—one that is interesting, exciting, and challenging. This way, students will do their best work, learn, develop their critical-thinking and writing abilities, and achieve good grades. Professor Graziano is available to consult with students concerning the law school admission process.

INTERNSHIPS

Mr. Robert I. Blanchard, Assistant Dean
415 St. Augustine Center for the Liberal Arts
610-519-4232
<http://www.villanova.edu/artsci/internships/>

The College of Liberal Arts and Sciences encourages and supports students to seek a variety of work and experiential learning experiences that will help with their career choices and position them as superior candidates as they enter the interview process for post-graduation employment.

To support and encourage students to seek such experiences, the College provides its students with the opportunity to earn course credit in departmentally related and academically creditable internships. While all work and experiential learning experiences are valuable, students must meet academic requirements and go through the application process for approval.

Students must apply through the Internship Office for consideration to enter the program and meet certain requirements. Among these requirements are the completion of the sophomore year (or have sufficient credits for junior status) and an overall GPA of 3.0 (2.7 for the summer). Internships for academic credit must be directly related to a student’s major, minor, or concentration and meet the criteria set by the faculty of the department or program that will award the academic credit. Students interested in completing an internship for academic credit outside their area of study may apply for the Liberal Arts Internship after consultation with the Internship Office.

Complete details, including other requirements of the program, are available through the Internship Office. Students are encouraged to contact the Office early in their exploration of an internship opportunity. **No academic credit will be awarded for an internship that has not received prior approval from the Internship Office.**

FIELD STUDY OPPORTUNITIES

There are many opportunities for Villanova students to participate in summer field study in the areas of anthropology, archaeology, astronomy, biology, ecology, and marine science. Academic departments should be contacted for information on these programs.

ACADEMIC POLICIES AND PROCEDURES

It is the responsibility of students to know and to comply with the academic regulations of the University and their respective colleges. University Academic policies can be found in the Villanova University Catalog, Undergraduate Studies, located at <http://catalog.villanova.edu/>. More detailed information concerning the College's policies see the Undergraduate Handbook, Enchiridion on the College's website: www.villanova.edu/artsci/college/publications.

The Registrar's Office (Tolentine Hall 202, 610-519-4030) is responsible for registration processes; course and student records, transcripts, and enrollment reports; and other similar documents. Any changes in a student's personal data such as permanent or local address, phone numbers, etc., should be reported to this office.

ACADEMIC STANDING, PROBATION, AND DISMISSAL FROM THE COLLEGE

The College Academic Standing Committees meet at the end of each regular semester to review the academic records of any student in the College who is on academic probation or experiencing academic difficulties. The Committees recommend corrective actions to the Dean that range from Letters of Concern, to Probation, to a Dismissal from the College. Each student deserving corrective action will receive a letter from the Dean's Office stating the action taken.

The record of any student whose cumulative or semester quality-point average falls below 2.00 is automatically placed on academic probation and his or her status will be reviewed by the Academic Standing Committee for appropriate action. Students in the Arts whose major requires a minimum GPA for all courses used to meet the requirements of the major and whose major GPA fails to meet the requirement, and students in Science whose technical course GPA (technical courses include all science, mathematics, and engineering courses) falls below 2.00 will also come before the committee. Typically, the student will either be placed on academic probation or be dismissed.

A student on academic probation will normally be allowed only one semester to achieve the required grade-point average. While on academic probation, a student's course load may be limited to four courses plus any associated laboratories, and the student on academic probation may not participate in any extra-curricular activities.

The Academic Standing Committee may dismiss a student whose GPA falls below 2.00, who is not making sufficient progress toward a degree due to excessive course drops or withdrawals even if the grade-point average is above 2.00, who has not declared a major by the end of the sophomore year without permission of the Dean. There is no requirement that a student must receive a Letter of Concern or have been placed on

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Probation prior to being dismissed. A Dismissal from the College may be appealed in writing. University policy does not permit students who have been dismissed by the University to attend summer sessions at Villanova.

Matriculated students who fail to register for or attend classes in any given semester will be considered to have unofficially withdrawn from the College. To be considered for readmission, the student must submit the request in writing to the Dean.

Students who have been dismissed or who have withdrawn frequently continue their academic work and take courses at another institution. Villanova does not pre-approve such courses. If these students apply for readmission, courses taken at other institutions will be evaluated for transfer credit by the Dean of the college to which the student is seeking readmission. Such students seeking readmission to the College of Liberal Arts and Sciences will not be able to seek transfer credit for courses taken at two year (community college) institutions.

ACADEMIC PROGRESS AND CLASS STATUS

Officially, class status is determined by the number of credits earned as follows:

Arts

Freshman 0-29 credits

Sophomore 24-59 credits

Junior 58-89 credits

Senior 90+ credits

Science

Freshman 0-32 credits

Sophomore 33-65 credits

Junior 66-95 credits

Senior 96+ credits

COURSE LOAD: OVERLOADS AND UNDERLOADS

All students in the College of Liberal Arts and Sciences pursuing the Bachelor of Science Degree and the Bachelor of Arts Degree are required to be a full-time student by taking a minimum of 12 credit hours (four courses of three credits or more) each semester. Students who wish to take less than 12 credits a semester must seek approval from their academic advisor and the Dean.

The normal course load each semester for full-time students is five courses of three credits or more excluding labs. The credit limit set by the Registrar during the pre-registration period is 15-credit hours for arts students and a higher number for science students. In order to be granted permission for an overload, a student must have a cumulative grade point average of at least 3.0, (2.75 for the summer), or have achieved senior status and need a sixth course to fulfill graduation requirements.

After all students have had the opportunity to register for five courses, credit limits will be raised by the Registrar for students with a GPA of 3.0 or higher and for seniors in order to allow them to register for a sixth course through NOVASIS using their semester PIN. No paperwork is required.

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Students with a GPA lower than 3.0 taking Japanese, Chinese, Arabic, or Russian to fulfill their language requirement or in Military Science, Naval Science, Aerospace Studies or Education may have to enroll for more than 17 credits in a given semester and therefore need to have their credit limit raised prior to registering online. In these cases, students must complete and submit the Overload Request Form available in the Dean's Office prior to their assigned registration day and time. Students who enroll in an extra course without proper permission will be dropped from the course.

In no case will permission be given for a seventh course, or for six courses and associated labs totaling more than 21 credit hours.

CLOSED SECTIONS

Students will not be permitted to enroll in closed sections. Exceptions to this rule will be made only by the chairperson of the academic department offering the course. If other sections or other courses are available to satisfy the degree requirements, then the exception will not be granted. Student employment conflict is not a legitimate reason for admittance to a closed section.

DEAN'S LIST

At the end of the fall semester and at the end of the spring semester the College of Liberal Arts and Sciences officially recognizes its best students by including their names on the Dean's List. Inclusion on the list is a tribute to a student's hard work and superior academic performance. In an effort to retain the honor which is integral to membership on the list, the requirements for inclusion are justifiably rigorous.

In order to be named to the Dean's List, a full-time student in the College of Liberal Arts and Sciences must maintain a minimum semester GPA of 3.50. All students included on the list receive a congratulatory letter from the Dean following the conclusion of the fall and spring semesters. *For the fall semester, letters are posted by the second Friday in February. For the spring semester, letters are posted the second Friday in July. These dates allow for grades of Incomplete to be changed upon the submission of outstanding work.*

DROPPING/ADDING COURSES (COURSE ADJUSTMENT)

During the *first week* of each semester, students are given the option of dropping or adding courses by using their pin number and going online through Novasis, or by completion of a paper form available in the Dean's Office and in the Advising Center. The drops do not appear on a student's transcript.

After this period, students may withdraw from courses (WX with approval during WX period, W after WX period) but may not add a course. These courses will appear on the student's transcript.

AUTHORIZED COURSE WITHDRAWAL (WX) AFTER CLOSE OF DROP/ADD PERIOD

Students are allowed to withdraw from a course after the close of the first week drop/add period without academic penalty, until a date published each year by the Registrar that is usually two days after the close of pre registration for the forthcoming semester and receive the grade of “WX”. The grade of WX does not affect a student’s grade point average but does appear on the transcript. Forms to request an Authorized Course Withdrawal are available in the Dean’s Office, 105 St. Augustine Center for the Liberal Arts, and in the Advising and Professional Development center, 451 St. Augustine Center for the Liberal Arts.

After this period, students may request an authorized withdrawal from any course, up to the commencement of final examinations, by providing to the Dean a written statement of justifiable cause for withdrawal, as well as the written recommendation of the instructor and the student’s chairperson. Withdrawal from the course will be contingent upon the Dean’s approval. Justifiable cause is a reason outside of a student’s control such as illness, which is extrinsic to the nature or difficulty of a course and which would prevent a student from completing the substantial requirements of the course.

Students who do not have a justifiable cause to withdraw from a course without academic penalty may still withdraw from the course and receive a grade of “W”. The grade of “W” is equivalent of an “F” grade and is included in computing the student’s quality point average and will appear on the student’s transcript.

GRADUATION CEREMONY

At the close of the academic year in May, the College of Liberal Arts and Sciences participates in the annual University Graduation Ceremony and hosts a special recognition ceremony and reception for all of its graduates and their families. Following University Graduation, diplomas are distributed at a location listed in the annual Graduation Program.

Students who have *no more than three courses* remaining in order to complete their degree may apply at the Office of the Dean, 105 St Augustine, for permission to “walk” in graduation. Their name will not appear in the Graduation program, and they will be handed an empty diploma case at the College’s recognition ceremony in order for pictures to be taken. Once the final courses have been completed and a grade entered, the Office of the Registrar will mail the diploma to the student at the address of record.

GRADUATION HONORS

Graduation honors will be noted on the degrees of graduating students meeting the following requirements:

- 1) Summa cum laude..... minimum cumulative GPA of 3.90
- 2) Magna cum laude..... minimum cumulative GPA of 3.75
- 3) Cum laude..... minimum cumulative GPA of 3.50

GRADUATION MEDALLION OF EXCELLENCE

Each department in the College of Liberal Arts and Sciences may nominate one graduating senior each year to receive a Medallion of Excellence. Generally, to be eligible for nomination, students must have earned a minimum of three fourths of their degree at Villanova in the College of Liberal Arts and Sciences and must have a minimum cumulative GPA of 3.50.

Each department has named its medallion either for a luminary from the past who has deeply affected the discipline or an outstanding person who helped to shape the course of study at Villanova University.

EVENING, ONE NIGHT A WEEK COURSES

No students may enroll in introductory survey courses (i.e. 1040, 1050, 1051) that meet one night a week.

Students whom have *completed* 45 credit hours may request permission to register for advanced courses that meet one night a week in the evening by completing the Permission To Enroll In Restricted Evening Courses Form before their enrollment day and time assigned by the Registrar each semester. The form is available in the Dean's Office, 105 St Augustine.

FAST FORWARD OR ACCELERATED COURSES

Transfer Credit will not be awarded for Accelerated or Fast Forward courses. In order for a non-professional three-credit course to be considered for transfer credit, the course must have met on at least 15 different days and with a minimum total meeting time of at least 37 hours. For courses in question, the student must provide documentation stating the manner in which the course was taught along with the official transcript. Courses in professional studies will be evaluated on a case-by-case basis. The College reserves the right to test students to assess course outcomes.

ONLINE AND DISTANCE LEARNING COURSES

The availability to enroll in DL courses for current Liberal Arts and Sciences undergraduate students is limited to sophomores, juniors, and seniors with a GPA of 2.75 and above. Students studying abroad may not take Distance Learning courses in addition to their approved curriculum.

The College will *accept up to a maximum of four courses*, commonly referred to as distance learning or online courses, taken at Villanova or at another accredited college or university toward a degree program within the college. Students may not take an online course at another institution if the same course is offered on line by Villanova. The College reserves the right to test the student in order to assess the outcome of that course. The prior approval form to allow students to take DL courses is available in the Dean's Office, 105 St. Augustine Center for the Liberal Arts.

SUMMER SCHOOL AT OTHER INSTITUTIONS

Students in the College of Liberal Arts and Sciences may be permitted to take summer school courses at institutions other than Villanova University with prior approval *if the course is not offered as a Distance Learning (DL) course by Villanova*. A student may take at most the equivalent of three courses of three credits or more in the summer. Transfer credit will be awarded on the Villanova transcript only for pre approved courses in which a student earns a grade of "C" or better. The actual grade received at the other institution does not transfer and is not calculated into the student's cumulative grade point average. No credit will be awarded for courses at other institutions that has not received prior approval.

Students seeking prior approval must complete the form, Request To Enroll in Summer Courses At Another Institution, available in the Dean's Office and attach a copy of the course description(s) usually available on the institution's Web site. The form and descriptions must be submitted to the Dean's Office for approval *no later than May 15th*.

In all cases, permission to enroll in summer courses at other institutions must be obtained from the student's advisor and from the Dean's Office before enrolling in the course(s). If the summer courses are to be taken abroad, then permission also is required by the International Studies Office.

Courses generally will be approved if they are taken at accredited four-year colleges or universities and if they are equivalent to course offerings at Villanova. Credit for courses taken at two-year institutions (community colleges) is considered for transfer only if the courses were taken prior to matriculation at Villanova. Transfer students to Villanova are required to have completed three semesters on campus before leaving for overseas studies.

Upon completion of the course, it is the student's responsibility to see that an official, sealed transcript is sent to the College of Liberal Arts and Sciences at Villanova. Transfer credits may be used for no more than half the courses required for the degree, no more than half the courses for the major, and no more that half the courses required for the core curriculum.

Transfer Credit will not be awarded for Accelerated or Fast Forward courses. In order for a non-professional three-credit course to be considered for transfer credit, the course must have met on at least 15 different days and with a minimum total meeting time of at least 37 hours. For courses in question, the student must provide documentation stating the manner in which the course was taught along with a course description.

STUDY ABROAD

In order to qualify for study abroad, a student must have a 2.75 or better GPA, good health, and receive prior approval. Transfer students to Villanova are required to have completed three semesters on campus before leaving for overseas studies. The Prior Approval Form, available in the International Studies Office, requires the approval of the

various department chairs for courses in their subject area that the student wishes to take abroad and transfer, of the appropriate Foreign Language Coordinators for foreign language courses, of the departmental chairperson of the student's major, of the Director of International Studies, and the Office of the Dean.

No student will receive study abroad transfer credit for any course that has not received prior approval. Students on Leave of Absence, Suspension, or Unofficial Withdrawal will not receive study abroad transfer credit. Students studying abroad may not take Distance Learning courses in addition to their approved curriculum.

Students wishing further information should contact the Director of International Studies in Middleton Hall, Second Floor (610-519-6412).

TRANSFER STUDENTS: INTERNAL FROM ENGINEERING, NURSING, VSB, PART-TIME STUDIES

Admission to the College is competitive and is based on seats available. The number of internal transfer students to be accepted for any given semester is determined by the projection of places available in introductory sections of Humanities courses for the upcoming semester.

Students seeking to transfer from other VU colleges and schools must do so by completing the form, Application to Enter the College of Liberal Arts and Sciences. Along with the form the student must submit an academic plan that indicates a direction for future studies with reference to specific academic programs offered by the College of Liberal Arts and Sciences, and the foreign language to be taken. The applicant also must read and sign the A&S Internal Transfer Policy sheet. In addition, the student must address why he/she is transferring from their current college and program, and indicate if he/she is also applying to another VU college. The application form and Transfer Policy Sheet are available on-line and in the Dean's Office, 105 St. Augustine Center for the Liberal Arts.

The deadline for application for internal transfer to the College of Liberal Arts and Science is the second Friday in May for the subsequent fall semester; and the second Friday in December for the upcoming spring semester. Applicants will be notified of the decision either prior to or within one week after the application deadline. Primary notification will be by the student's Villanova email account.

The primary criteria for evaluation are academic performance while at Villanova. The minimum criteria for application to the College of Liberal Arts and Sciences for students who have completed only one or two semesters at Villanova is a high school profile that includes a minimum SAT score of 1235 and class standing in the top 15 percent; or a grade point average of 2.33 for all Arts courses taken at Villanova.

For all students who have completed three semesters or more at Villanova, the minimum required for application is a grade point average of 2.33 for all Arts courses taken and an academic plan that includes a direction for future studies with reference to specific academic programs offered by the College of Liberal Arts and Sciences.

Once a student has successfully completed two consecutive semesters in the College of Liberal Arts and Sciences and has attained a GPA greater than or equal to 2.50 in each

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semester, grades for the courses that do not ordinarily apply to the student’s new Arts and Sciences curriculum may be excluded from the calculation of the student’s GPA. The exclusion is not automatic. Students must petition the Dean’s Office for the exclusion.

SAMPLE CURRICULUM FOR AN ARTS MAJOR PROGRAM

The following chart offers a sample program for students with majors in Liberal Arts. It is just one of the many possible arrangements students may choose in pursuing a degree. Students are required to meet with an assigned adviser at least once each semester in order to select courses for registration. While a student may decide to alter the following course order, no courses may be omitted. It is exclusively the responsibility of the student to see that the appropriate courses are selected in the pursuit of any of the various degrees in the College.

SAMPLE CURRICULUM FOR AN ARTS MAJOR PROGRAM

FIRST YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Augustine and Culture Seminar (ACS)*	Augustine and Culture Seminar (ACS)*
Introductory Philosophy	Introductory Literature
Social Science	Introductory History
Language	Language
Mathematical/Computing Sciences	Mathematical/Computing Sciences
SECOND YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Natural Science & Laboratory*	Natural Science & Laboratory*
Fine Arts	College Ethics
Introductory Theology	Social Science
Elective/Major/Social Science	Elective/Major/Social Science
Adv. Humanities (History/Philos)	Adv. Humanities (Theol/Literature)
THIRD YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Major	Major
Major	Major
Advanced Humanities	Advanced Humanities
Elective	Elective
Elective	Elective

FOURTH YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Major	Major
Major	Major
Elective	Elective
Elective	Elective
Elective	Elective

*NOTE: These courses must be taken in the semester indicated.

SAMPLE CURRICULUM FOR A SCIENCES MAJOR PROGRAM

The following chart offers a sample program for students with majors in the Sciences. Students are required to meet with an assigned adviser at least once each semester in order to select courses for registration. While a student may decide to alter the following course order, no courses may be omitted. It is exclusively the responsibility of the student to see that the appropriate courses are selected in the pursuit of any of the various degrees in the College.

FIRST YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Augustine and Culture Seminar (ACS)*	Augustine and Culture Seminar (ACS)*
Major Science	Major Science
Science or Core	Science or Core Requirement
Mathematics	Mathematics
Foreign Language	Foreign Language
SECOND YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Major Science	Major Science
Major Science	Major Science
Math or Core	Math or Core
Science or Core	Science or Core
Introductory Literature	Core Elective
THIRD YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Major Science	Major Science
Major Science	Major Science
Science or Core	Science or Core Requirement
Advanced Humanities	Advanced Humanities
Elective	Elective

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FOURTH YEAR	
<u>Fall Semester</u>	<u>Spring Semester</u>
Major Science	Major Science
Major Science	Major Science
Science or Core	Science or Core Requirement
Advanced Humanities	Advanced Humanities
Elective	Elective

*NOTE: These courses must be taken in the semester indicated.

Students wishing to receive the Bachelor of Science in Astronomy and Astrophysics, Biology, Chemistry, Computer Science, Mathematics, Physics or the Bachelor of Science Comprehensive Program must attain a QPA of 2.00 in the science and mathematics courses taken in fulfillment of their major, as well as attaining an overall QPA of 2.00.

MAJORS, INTERDISCIPLINARY CONCENTRATIONS, AND MINORS

The following information is designed to give students a brief introduction to the requirements of the various degree programs in the College of Liberal Arts and Sciences. A significant number of courses required for Interdisciplinary Concentrations can fulfill Core Curriculum requirements. Please contact individual departments for additional information about a particular program.

AEROSPACE STUDIES PROGRAM AND MINOR (AIR FORCE ROTC)

Director: Captain Larry Beer (lbeer@sju.edu)
Department of Aerospace Studies
Saint Joseph's University
(610) 660-3190; rotc@sju.edu
<http://www.sju.edu/academics/cas/afrotc/index.html>

Air Force Reserve Officer Training Corps participation is available through a cross-enrollment agreement with St. Joseph's University.

Participation in a one through four-year program leads to a commission as a Second Lieutenant in the Air Force. Scholarships are available in any major. Additional Details are available in the Liberal Arts and Sciences Special Programs section of the Villanova Catalog.

MINOR: The minor in Aerospace Studies is offered to any student completing the proscribed courses of study. Students desiring a minor in Aerospace Studies must declare this choice no later than the add/drop period of their seventh semester. Specific English and Foreign Language courses must receive approval by the Professor of Aerospace Studies to qualify.

See the Web site address above for more information.

AFRICANA STUDIES CONCENTRATION

Director: Dr. Crystal J. Lucky
Office: 204 Old Falvey
Tel. (610) 519-4640
Web site: www.villanova.edu/artsci/africanastudies/

CONCENTRATION: The Africana Studies Concentration combines an introductory core, a number of electives, and an integrating seminar for a total of 21 credits.

MINOR: The Africana Studies Minor combines an introductory core and a number of electives for a total of fifteen credits. The list of approved electives is available from the Africana Studies office.

See the Web site address above for more information.

ARABIC

Director: Dr. Maghan Keita
Office: 433 St. Augustine Center for the Liberal Arts
Web site: www.villanova.edu/artsci/global/criticallangs/arabic/

MINOR: A minor in Arabic requires six courses offered within the Arabic Program.

See the Web site address above for more information.

ARAB AND ISLAMIC STUDIES CONCENTRATION

Director: Dr. Silvia Nagy-Zekmi
Office: 268 St. Augustine Center
Tel. (610) 519-4640
Web site: www.villanova.edu/artsci/arabislamic/

CONCENTRATION: The Arab and Islamic Studies Concentration requires **21 credits** in addition to a *minimum* of 12 credits of Arabic language courses.

MINOR: The Arab and Islamic Studies Minor requires **15 credits**.

The list of approved electives is available from the Arabic and Islamic Studies Office Studies office, St. Augustine Center, Room 268.

See the Web site address above for more information.

ART HISTORY

Chair: Dr. Marc Gallicchio, Chairperson
Office: 403 St. Augustine Center
Tel. (610) 519-4660
Web site: www.villanova.edu/artsci/history/undergrad/arhistory/
Course descriptions: www.artsci.villanova.edu/courses/art_history

The Art History major and minor are administered by the Chair of the History Department.

MAJOR: Art History majors must complete a total of 10 courses, which include a required introductory core of four courses.

MINOR: Students seeking a minor in Art History are required to earn at least 15 credit hours in art history, six of which must be the two survey courses (AAH 1101 and 1102), plus 3 credit hours in Studio Art.

See the Web site address above for more information.

ASTRONOMY AND ASTROPHYSICS

Chair: Dr. George P. McCook

Office: 456 Mendel

Tel. (610) 519-4820

Web site: <http://www.villanova.edu/arts/astronomy/>

Course descriptions: www.arts.villanova.edu/courses/astronomy

The Astronomy and Astrophysics major is designed to prepare students for graduate studies in Astronomy and related fields. The major combines rigorous academic preparation with a strong research component, which usually culminates in the presentation of original research results at national-level astronomical conferences. In addition, both the major and the minor – as combined with the strong humanities focus of the University's Core Curriculum – provide outstanding preparation for careers in science journalism and science education, as well as for essentially any technically-based career.

MAJOR: 87 credits including courses in physics, mathematics, computer science, and meteorology. Students completing the major will also qualify for a minor in physics.

MINOR: The astronomy minor is available to all students and requires 24-26 credits, including courses in physics, mathematics, and meteorology, plus any prerequisites for the required courses. The MAT courses fulfill the 2-semester Core Curriculum mathematical science requirement in the College of Liberal Arts and Sciences. With the addition of 2 appropriate lab courses, the AST or PHY courses fulfill the 2-semester natural sciences requirement.

See the Web site address above for more information.

CONCENTRATION: AUGUSTINE IN DIALOGUE WITH FAITH AND CULTURE

Chair: Dr. Kevin Hughes

Office: 304 St. Augustine Center

Tel. (610) 519-7300

Web site: www.arts.villanova.edu/augustinianconcentration

This is an interdisciplinary program, open to all students in all degree programs. Students must complete the required 18 hours for the concentration in addition to fulfilling the requirements of their major. They will maintain a portfolio of all the papers they have written throughout their course of studies in the Concentration. At the end of their first semester senior year, they will undergo an oral exam which both reviews the course material they have taken thus far, as well as lays the groundwork for the research

they will undergo in their capstone experience. The oral examination will be administered by three professors: the Director of the Concentration, and two professors who have taught them during their course of studies for the Concentration.

See the Web site address above for more information.

BIOCHEMISTRY

Program Director: Dr. Janice Knepper; Dr. Barry S. Selinsky

Office: 215 Mendel Science Center

Tel. (610) 519-4840

Web site: www.villanova.edu/artsci/biochem

Course descriptions: www.villanova.edu/artsci/biochem/courses/undergrad

Biochemistry is an interdisciplinary major requiring comprehensive coursework in both Chemistry and Biology. The biological relevance of chemical concepts is stressed throughout the curriculum. Students are encouraged to pursue one of many available research opportunities.

MAJOR: CHM 1151/1103; 1152/1104; 2211/2201 (or 3211/3201); 2212/2202 (or 3212/3202); 3417; 3511/3501; 4621/4622/4623/4603; MAT 1500/1505 (or 1300/1305); PHY 2410/2411 (or 1100/1101); PHY 2412/2413 (or 1102/1103); BIO 2105/3351/4505. In addition, Biochemistry majors must complete one Chemistry elective and one Biology elective.

CHEMISTRY MAJOR WITH BIOCHEMISTRY CONCENTRATION:

The major provides more extensive training in physical and inorganic chemistry while providing a chemistry-centered introduction to biochemistry: CHM 1000; 1311/1301; 1512/1502; 3511/3501; 3211/3201; 3212/3202; 3311/3301; 3411/3403; 3412/3404; 4621/4622/4603; MAT 1500/1505; PHY 2410/2411; 2412/2413; BIO 2105/2106. In addition, students must select one molecular-biology based BIO elective.

RESEARCH OPPORTUNITIES: The Biochemistry program offers two mechanisms for participation in research by the undergraduate major. Departmental fellowships for 8-10 weeks of summer research are funded by industrial and government sources. Recipients of these fellowships carry out a research project under the direction of a faculty member. In addition, students are encouraged to enroll in research for academic credit during the school year (CHM 4801, 4802, 4803, or BIO 6509, 6609).

See the Web site address above for more information.

BIOLOGY

Chair: Dr. Russell M. Gardner

Office: 147 Mendel

Tel. (610) 519-4830

Web site: www.villanova.edu/artsci/biology/

Course descriptions: www.artsci.villanova.edu/courses/biology

MAJOR: Thirty-six credits in Biology, including BIO 2105, 2106, 3351, and 5100. Cognate requirements include: CHM 1151/1103, 1152/1104, 2211/2201, 2212/2202; MAT 1310/1315; PHY 1100/1101 and 1102/1103. In addition, Biology majors must select a minimum of five laboratory science electives from the Biology departmental offerings (five courses including laboratories) numbered 3000 and higher. At least one course with laboratory must be chosen from each of the following areas: Population Biology, Organismal Biology, Cellular/Molecular Biology. NOTE: Courses numbered below 2000 will not apply toward a major in biology.

MINOR: Twenty-three credits Biology, including BIO 2105 and 2106. Additional elective courses from Biology departmental offerings numbered 3000 and higher. These Biology electives must include at least 3 lab science courses. Minors must complete at least 12 of their Biology credits at Villanova and achieve a minimum QPA of 2.0 in those courses.

NOTE: Courses numbered 7000 to 7999 are open to fourth year students with a QPA of 3.0 or higher. Third year students with a QPA of 3.4 or higher may be eligible for enrollment in these courses with the approval of the Department of Biology and the Office of Graduate Studies.

See the Web site address above for more information.

BUSINESS MINOR

School: Villanova School of Business (VSB)

Dean: James M. Danko

Tel. (610) 519-5532

Location: The Clay Center at VSB (Bartley Hall 1054)

Students enrolled in other colleges of the University may apply to seek a General Business Minor through the Villanova School of Business (VSB).

Students must attend an information session held by VSB before applying. Information sessions are held at least once a month. Dates and times are posted at the start of the fall and spring semesters.

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Applications are available through the Clay Center at VSB (Bartley Hall 1054) and online at <http://www.villanova.edu/business/undergrad/forms.htm>. The application deadline is May 1st. Business Minor applications are reviewed once per year after spring grades are posted. Students are notified in late May. Acceptance is determined on a competitive basis.

All business courses must be taken at Villanova. Microeconomics, Macroeconomics, and the Statistics requirement may be taken elsewhere. Preapproval by the Clay Center at VSB is necessary.

The required business courses for a General Business Minor for students in the Class of 2012 are:

ECO 1001	Intro to Microeconomics
ECO 1002	Intro to Macroeconomics
VSB 1000	Information Technology (1 cr.)
VSB 1001	Business Dynamics I
VSB 1002	Business Dynamics II
VSB 2010	Financial Management & Reporting ¹ (6 cr.)
VSB 2020	Competitive Effectiveness ¹ (6 cr.)
	Statistics Requirement²

1. Prerequisites: VSB 1000, VSB 1001, VSB 1002, ECO 1001, ECO 1002. MAT 1235 (or VSB 2005) is the pre-requisite or co-requisite for VSB 2010.

2. Statistics may be fulfilled by successfully completing:

- BIO 3105 Biostatistics and Experimental Design, **OR**
- MAT 1230 and MAT 1235, **OR**
- VSB 2005 Business Statistics (or ECO 2137 or MAT 2310 or MAT 4310) may substitute for MAT 1230 and MAT 1235, the statistics sequence, if a student has successfully completed a calculus course.

Please Note: Statistics is waived for Engineers and Math Majors.

Students who successfully complete the General Business Minor may then pursue an additional VSB minor in Accounting, Business Law and Governance, Economics, Entrepreneurship, Finance, International Business, Management Information Systems, Marketing or Real Estate. **Additional coursework may be required.**

Students in the General Business Minor program must meet with Sherrylynn Pitts, the Business Minor Advisor in the Clay Center, before registering for VSB courses.

CHEMISTRY

Chair: Dr. Wm. Scott Kassel

Office: 215 Mendel Hall

Tel. (610) 519-4840

Web site: www.villanova.edu/arts/chemistry

Course descriptions: www.villanova.edu/arts/chemistry/courses/undergrad

The Chemistry major, accredited by the American Chemical Society, provides comprehensive classroom and laboratory training in all areas of chemistry. Students receive extensive training in laboratory techniques using modern chemical instrumentation. Extensive opportunities for faculty-mentored undergraduate research are available for all students.

MAJOR: CHM 1000; 1311/1301; 1512/1502; 3511/3501; 3211/3201; 3212/3202; 3311/3301; 3411/3403; 3412/3404; 4611; MAT 1500/1505; PHY 2410/2411; 2412/2413. In addition, Chemistry majors must select a minimum of two Chemistry electives and one Chemistry lab elective.

MINOR: CHM 1151/1103; 1152/1104; 2211/2201; 2212/2202. In addition, Chemistry minors must select a minimum of three courses (along with appropriate laboratories) from any 3000 level courses or higher.

See www.villanova.edu/arts/chemistry/undergrad/minor for details.

BIOCHEMISTRY CONCENTRATION: The curriculum is identical to the Chemistry major except for the following: CHM 4611 and one Chemistry elective are replaced by CHM 4621/4622/4603. Three semesters of Biology are required: BIO 2105; 2106; and a molecular based biology course.

COMBINED BS/MS IN CHEMISTRY: CHM 1000; 1311/1301; 1512/1502; 3211/3201; 3212/3202; 3511/3501; 3311/3301; 3411/3403; 3412/3404; 4611; 4801; MAT 1500/1505; PHY 2410/2411; PHY 2412/2413. In addition, students must complete six graduate courses, three graduate research courses, and defend a research thesis.

RESEARCH OPPORTUNITIES: The Chemistry Department offers two mechanisms for participation in research by the undergraduate major. Departmental fellowships for 8-10 weeks of summer research are funded by industrial and government sources. Recipients of these fellowships carry out a research project under the direction of a faculty member. In addition, students are encouraged to enroll in research for academic credit during the school year (CHM 4801, 4802, 4803).

See the Web site address above for more information.

CHINESE MINOR

Director: Dr. Maghan Keita

Offices: 433 St. Augustine Center

Website: <http://www.villanova.edu/artsci/global/>

Course descriptions:

http://www.villanova.edu/artsci/global/criticallangs/chinese/minor_conc.htm

MINOR: The minor in Chinese Language and Cultural Studies requires four courses in Chinese language that may be selected from the following:

CHI 1111-Basic Chinese I
CHI 1112- Basic Chinese II
CHI 1121- Intermediate Chinese I
CHI 1122-Intermediate Chinese II
CHI-1131-Advanced Chinese I
CHI 1132-Advanced Chinese II
CHI-1133-Advanced Chinese III
CHI 1134-Advanced Chinese IV

In addition, the minor requires two elective courses that can be selected from the following:

CHI-1131-Advanced Chinese I
CHI 1132-Advanced Chinese II
CHI-1133-Advanced Chinese III
CHI 1134-Advanced Chinese IV
CHI 2134-Chinese Culture
CHI 2144-Chinese Film & Novel
CHI 3412-Chinese Special Topics
CHI 1113-Business Chinese
CHI 3413-Chinese Calligraphy
CHI 3414-Chinese Classical Thought

See the Web site address above for more information.

CLASSICAL STUDIES

Chair: Dr. Kevin Hughes

Office: 304 St. Augustine Center

Tel. (610) 519-6165

Web site: <http://www.villanova.edu/artsci/classical/>

Course descriptions: <http://www.villanova.edu/artsci/classical/courses/>

MAJOR: A major in Classical Studies generally requires a minimum of 12 courses (minimum 36 credits) in Latin or Greek. Once a sequence of language courses has begun, a student may not revert to a lower level course. Up to 2 Classics courses (taught in English: Archaeology, Mythology, etc.) may be included in the 12 course total. Classics 3001, Independent Study, will be considered a Latin or Greek course when the study is done in those languages.

MINOR: A minor in Classical Studies generally requires a minimum of 6 courses (minimum 18 credits) in Latin or Greek. Up to 2 Classics courses taught in English may be included in the 6 course total. Classics 3001, Independent Study, will be considered a Latin or Greek course when the study is done in these languages.

The Classics Program also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper level literature course in any language taught in the Department satisfies the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the major in a language, except for double majors.

See the Web site address above for more information.

COGNITIVE SCIENCE CONCENTRATION

Director: Dr. Charles L. Folk

Office: 252 Tolentine Hall

Tel. (610) 519-7464

Website: www.artsci.villanova.edu/cogscience/

Cognitive Science is a basic and applied science with the primary goal of explaining intelligent behavior, whether exhibited by humans, animals, or machines. The purpose of the Cognitive Science Program is to offer an interdisciplinary course of study related to

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intelligent systems emphasizing the perspectives of psychology, computer science, philosophy, biology, and engineering. The program offers both a concentration and a minor to students in all of the University's undergraduate colleges.

CONCENTRATION: The concentration requires seven courses, a five-course proscribed core, and two electives.

MINOR: the Minor requires five courses. Note: Course selections for the minor must include approved courses in three of the following five disciplines: Psychology (PSY), Computer Science (CSC), Philosophy (PHI), Biology (BIO), and Electrical/Computer Engineering (ECE).

See the Web site address above for more information.

COMMUNICATION

Chair: Dr. Bryan Crable

Office: 203 St. Augustine Center

Tel. (610) 519-4750

Website: www.villanova.edu/artscomm/communication/

Course descriptions: www.artscomm.villanova.edu/courses/communication

ACCEPTANCE: COM 1000, Survey of Communication Studies, and COM 1100, Public Speaking, are prerequisites which must be taken in the freshman and/or sophomore years. A minimum G.P.A. of 2.5 is required to declare the major.

MAJOR (Class of 2009 and beyond): Thirty-six credit hours are required. COM 1000, Survey of Communication Studies, COM 1100, Public Speaking, and COM 1200, Introduction to Communication Research, are entry-level required courses, and should be taken in the freshman and/or sophomore years. Either COM 4001, Qualitative Research in Communication, or COM 4002, Quantitative Research in Communication, should be taken in the junior year or prior to taking the required capstone, COM 5050, Senior Project. COM 1200 will satisfy the College of Liberal Arts and Sciences Core Research Requirement.

After enrolling in COM 1000, 1100, and 1200, and declaring the Communication major, students will consult their academic advisers and choose one of the Department's specializations: *Public Relations, Journalism, Organizational Communication, Media Studies, Media Production, Rhetorical Studies, Performance Studies, and Interpersonal Communication*. Based upon the selection of specialization, students will take two (2) courses at the theory (2000) level, and five (5) courses at the advanced topics (3000) level (from at least three different specializations). A complete listing of specialization requirements and courses is available in the Communication Department main office. Students not wishing to specialize may receive a generalized Communication degree by

taking any two (2) courses at the theory level, five (5) courses at the advanced topics level (from three different specializations), and all required courses.

Some specializations will require Communication majors to choose internships, which will be used to satisfy free electives for the College of Arts & Sciences.

MINOR (Students in College of Liberal Arts and Sciences only): Survey of Communication Studies (COM 1000), plus any four courses from the major course offerings.

MINOR (Students outside College of Liberal Arts and Sciences): Survey of Communication Studies (COM 1000), plus four courses from the following list: Business & Professional Communication, Theories of Organizational Communication, Leadership, Negotiation and Dialogue, Teambuilding and Small Group Communication, Training and Development, Public Relations, Gender and Communication, Intercultural Communication, Communication and Conflict. *Courses not on this list will only count toward the minor in exceptional circumstances, and require the Department's Chair's written permission. In order to qualify for the Business Communication Minor, students must have a minimum G.P.A. of 2.75 or above, and receive a final grade of C or higher in COM 1000.*

See the Web site address above for more information.

COMPREHENSIVE SCIENCE

Director: Dr. Frederick Hartmann

Office: 103 St. Augustine Center

Tel. (610) 519-8900

Website: www.artsci.villanova.edu/comprehensivesci/

MAJOR: The Comprehensive Science program is designed to allow students interested in the physical and life sciences to get a broad based and thorough exposure to a full spectrum of scientific concerns and practices. The information provided here is a basic outline of the comprehensive science requirements. The elective courses taken may vary based upon special interest or concentrations selected by the student.

The following courses are required of Comprehensive Science majors:

CSC 1051 Algorithms and Data Structures I

BIO 2105, 2106 General Biology I and II

CHM 1151/1103 General Chemistry I and Laboratory

CHM 1152/1104 General Chemistry II and Laboratory

MAT 1500/1505/2500 Calculus I, II and III

PHY 2410/2411 University Physics: Mechanics and Laboratory

PHY 2412/2413 University Physics: Electricity & Magnetism & Laboratory

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or

PHY 2414/2415 University Physics: Thermodynamics and Lab

One Mathematics course selected from the following:

MAT 2705 Differential Equations with Linear Algebra

MAT 4310 Statistical Methods

Additionally students must complete at least SEVEN upper level science electives with appropriate laboratories chosen in consultation with the student's advisor.

The degree program allows for students to design a concentration in a particular discipline or an interdisciplinary field. Some sample concentrations follow:

Biological-Chemistry Biology

Chemistry Cognitive Science

Environmental Studies Pre Dental

Mathematics Pre Medical

Pre Optometry Physics

See the Web site address above for more information.

COMPUTER SCIENCE

Chair: Dr. Robert E. Beck

Office: 161 Mendel Science Center

Tel. (610) 519-7307

Website: www.csc.villanova.edu

Course descriptions: www.csc.villanova.edu/academics/courses

A Computer Science major explores a broad spectrum of computing technologies and concepts. The courses provide a thorough foundation in the principles and practices of computing, paving the way for a successful career and graduate studies. The students also learn skills in communication and the scientific, mathematical, and engineering principles that support the computing disciplines. The program is designed to develop the total person, one with intellectual curiosity, mature judgment, a thirst for life-long learning, and a commitment to the betterment of society.

MAJOR: CSC 1051, 1052, 1300, 1700, 1800, 2053, 2400, 2405, 3990, 4170, 4700, and 4790 plus three departmentally approved elective courses; MAT 1500, 1505, and 2310; PHI 2180; a two semester science sequence with co-requisite laboratories selected from an approved set of courses in Astronomy, Biology, Chemistry or Physics; and one more approved science or engineering course. A specific list of approved electives and approved science/engineering courses can be obtained from the department

Villanova University

web site <http://www.csc.villanova.edu>. A total of 26 credits in science and mathematics is required. The major in computer science is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

MINOR: CSC 1051, 1052, 2400 or ECE 3445, CSC 1300, CSC 1700, CSC 2053, and two elective courses chosen from the list of approved courses available from the department office or department web site.

The Information Science Minor focuses on the acquisition, representation, storage, indexing, manipulation, retrieval and management of information in all its forms--text, audio, video, image, animation, and hypermedia

INFORMATION SCIENCE MINOR: CSC 1051, 1052, 1300, 2500, 3400, and two elective courses chosen from the list of approved courses available from the department office or department web site.

See the Web site address above for more information.

CRIMINAL JUSTICE

Director: Dr. William Waegel

Office: 204 St. Augustine Center

Tel. (610) 519-4740

Web site: www.villanova.edu/artsci/sociology/undergrad/criminaljustice

Acceptance: To be accepted as a Criminal Justice major applying students must have earned a "C" or better in CRJ 1000, Introduction to Criminal Justice.

The Criminal Justice Major is an interdisciplinary program designed to provide students with an understanding of the causes, social functions, societal reactions, nature and application of criminal law. Rather than a technical program which focuses on applied skills (e.g. vocational skills), our program will emphasize the justice component. This program will educate students in diverse theories exploring the many social dimensions of crime and effectiveness (and implications) of current criminal justice policies.

Required Courses:

CRJ 1000 Introduction to Criminal Justice

CRJ 3000 Criminology

CRJ 3200 Police and Society

CRJ 3300 Criminal Courts

CRJ 3400 Penology and Corrections

CRJ 5100 Criminological Theory

CRJ 6500 Senior Seminar

One of the following:

College of Liberal Arts and Sciences

CRJ 5200CJ Research, Methods and Statistics

SOC 5300Data Analysis for Social Scientists

SOC 5400Applied Research Methods

Two Approved Electives

Requirements for a Minor in Criminal Justice (5 courses)

Required courses are Intro. to Criminal Justice (CRJ 1000) and Criminology (CRJ 3000 or SOC 3000), and three other criminal justice courses chosen from the offerings of the department. Philosophy of Criminal Justice (PHI 2140) is strongly recommended as one of the three elective courses. The student must inform the chair of his or her intention to minor and request certification of the minor when it has been completed.

See the Web site address above for more information.

EAST ASIA STUDIES CONCENTRATION

Director: Dr. Joanna Rotté

Office: 224 St. Augustine Center

Tel. (610) 519-4761

Web site: www.villanova.edu/artsci/eastasian/

The East Asia Studies Concentration is an interdisciplinary program that is open to students in all degree programs and in all four undergraduate colleges. The main goals of the program are to equip students with basic competence in the history, politics, philosophies, languages, and cultures of the region, while also emphasizing A complex and connective understanding and appreciation of the region's diversity; and the acquisition of basic research skills aimed at a deeper understanding of a particular problem, idea, or event in the region.

CONCENTRATION: Students are required to take a minimum of 24 credit hours in the following areas:

- Minimum of two semesters of an Asian language at the intermediate level;
- One of the core courses that provide an overview of the region;
- Five Elective courses (15 credits) (the list below is indicative of the course offered);
- Senior research capstone seminar paper on a topic related to the Asia/Pacific region.

Other courses, including those taken in approved overseas studies programs, may count towards the concentration at the discretion of the director.

See the Web site address above for more information.

ECONOMICS

Chair: Dr. Wen Mao

Office: 2015 Bartley

Tel. (610) 519-4370

Web site: www.villanova.edu/business/academics/undergrad/programs/economics/

Course descriptions: www.artsci.villanova.edu/courses/economics

BACHELOR OF ARTS IN ECONOMICS: Students in the College of Liberal Arts and Sciences who specialize in Economics earn the degree of Bachelor of Arts in Economics. Such students must take Calculus (MAT 1320 or higher) either to satisfy their math requirement or as a free elective. They should take ECO 1001 and ECO 1002 as two of the three social science courses in the Freshman or Sophomore year. In addition, students must successfully complete: ECO 2101, 2102, VSB2005 (or equivalent), 3132 (to satisfy the college research requirement), 4132; and 12 elective Economics credits (courses numbered above 3000). Students may receive a Specialization certificate by choosing to specialize in one of the following areas – (Business Economics, Global Economics, Human Resource Economics, or Pre-Law) by taking, as part of their 12 elective credits, three courses within their specialty and focusing their seminar paper (ECO 4132) on that specialty area.

MINOR: Students must take Calculus (MAT 1320 or equivalent), and complete a total of 18 credits consisting of ECO 1001, 1002, 2101, 2102, and two elective courses with course numbers ECO 3000 or above.

For a list of economics courses, please see the Economics listing in the catalog for the Villanova School of Business.

See the Web site address above for more information.

EDUCATION, SECONDARY

Chair: Dr. John Durnin

Office: 302 St. Augustine Center

Tel. (610) 519-4620

Website: www.villanova.edu/artsci/education/

Course descriptions: www.artsci.villanova.edu/courses/education

The Department of Education and Human Services secondary teacher education program seeks to develop prospective teachers able to meet the demands of teaching in a variety of school environments, public and private, urban and suburban. Provisions for professional competencies and teacher certification include a thorough grounding in the

College of Liberal Arts and Sciences

liberal arts, a substantial concentration in an area of specialization and a study of the foundations, principles and methods of education.

NOTE: In addition to the Education major, it is recommended that students earn a second major in their teaching area. Education majors Education majors and minors must come to the Department each semester for advising.

ADMISSION REQUIREMENTS: Secondary Education candidates apply the first semester of their sophomore year in anticipation of completing 47 or 48 credits that semester. Application requirements include a minimal 2.8 GPA, six credits in English and mathematics respectively, two letters of recommendation from professors, and an essay. For a complete listing of requirements, see the Undergraduate Student Handbook.

MAJOR: In addition to the teaching subject area requirements* described in the sequence charts that can be obtained at our office, Secondary Education majors are required to earn a total of 30 credit hours in Education courses. These are: EDU 2201 or 2202, 2300, 3251, 3263, 4290, 4291, and an appropriate teaching methods course. The coursework includes a full time student teaching experience which is open only to students in their senior year who have completed all of the subject matter courses in their field of specialization. NOTE: For Education majors, the upper level philosophy requirement is met by EDU 4290 (Philosophy of Education).

PENNSYLVANIA TEACHER CERTIFICATION: Students are required to have a GPA of 3.0 at graduation and are also required to successfully complete the state mandated Praxis series of examinations.

AREAS OF CERTIFICATION:

Biology Citizenship Education Spanish
Chemistry Social Studies French
General Science Communication German
Mathematics English Italian
Physics Latin

MINOR: A minor in Education does not lead to teacher certification but exposes students to the field of education. It requires 15 credits including: EDU 2202, 3251, 3263, and 4290. An additional three credits must be earned from among the following: EDU 2201, 2300, 3258, 3260, 3262, 3265, 3266, 4301.

See the Web site address above for more information.

ENGLISH

Chair: Dr. Evan Radcliffe
Office: 402 St. Augustine Center
Tel. (610) 519-4630
Website: www.villanova.edu/artsci/english/

MAJOR: Thirty-three hours in advanced English courses (numbered 2000 or above) including:

- Junior Research Seminar (English 2250)
- Two courses in British/Irish literature pre-1800 from two of three areas: (1) Medieval; (2) Renaissance (to 1649); (3) Restoration and Eighteenth Century.
- Two courses in literature after 1800: one in British/Irish literature and one in American literature. One of these courses must be in 19th century literature and one must be in literature after 1900.
- Senior Seminar (English 5000)
- Five electives

English majors must take the Junior Research Seminar before they complete their junior years. The English Department recommends that they consider taking it as sophomores.

British Literary Tradition I (English 2101) is not required, but the English Department recommends that English majors take it early, since it introduces writers, texts, and issues that are crucial to most subsequent courses.

British Literary Tradition 1 and 2 (2101, 2102) and American Literary Tradition 1 and 2 (2103, 2104) can operate as free electives with a maximum of two permitted toward the major and the college Advanced Literature requirement.

MINOR: Fifteen hours including:

- At least one course from the British/Irish literature offerings (mostly 3000-level courses).
- At least one course from the American literature offerings (mostly 4000-level courses).
- At least three electives from the English departmental offerings (numbered 2000 or above).

See the Web site address above for more information.

ENVIRONMENTAL SCIENCE AND STUDIES

Chair Dr. Francis A. Galgano Jr.

Chair, Dept of Geography and the Environment

Office: Mendel G-67-D

Website: www.villanova.edu/artsci/geoenv

Concentration: Dr. Lisa J. Rodrigues, Director

Website: www.artsci.villanova.edu/envstuds

Environmental programs at Villanova University include the: Environmental Science major, Bachelor of Science; the Environmental Studies major, Bachelor of Arts; and the Environmental Studies Concentration. The Department of Geography and the Environment administers each academic program.

Bachelor of Science, Environmental Science major (133 credit hours):

Environmental science is the study of interactions among physical, chemical, and biological components of the environment. Environmental Science provides an integrated, quantitative, and interdisciplinary approach to the study of environmental systems. Students enrolled in this new and dynamic major will learn how to monitor the quality of the environment, interpret the impact of human actions on ecosystems, and develop strategies for restoring natural systems. In addition, students will learn how to help planners develop and construct buildings, transportation corridors, and utilities that protect water resources and reflect efficient and beneficial land use. This is a highly interdisciplinary major, thus, students will work in multi-disciplinary teams to analyze complex environmental problems, examine environmental laws and policy decisions that require specific environmental protocols, and develop methods to promote public awareness of environmental problems.

For more information about the Environmental Science major, see our website:
www.villanova.edu/artsci/geoenv

Bachelor of Arts, Environmental Studies major (124 credit hours):

The Environmental Studies major focuses on the systematic study of human interaction with the natural environment. Today's environmental problems have evolved into highly complex and interdisciplinary issues involving political, economic, social, as well as physical and biological considerations. Modern environmental studies programs include the examination of urban and natural environments. Society needs educated people capable of addressing current and future environmental problems from a holistic approach, one that emphasizes linkages between human and natural systems. These may include urban environments, land use planning and management, environmental pollution, sustainability, or economic growth and its impact on natural resources. These relationships must be analyzed and understood in order to address successfully environmental problems at local, regional, and global scales.

For more information about the Environmental Studies major, see the Web site:
www.villanova.edu/artsci/geoenv

The Environmental Studies Concentration: The Concentration promotes an interdisciplinary approach to environmental issues through coursework and independent study/internship experiences. Several requirements of the Concentration also fulfill requirements in the student's major and/or the Core Curriculum. The Concentration is open to students from all colleges and all majors.

Courses are subdivided into four categories. Students take all of the courses in:

Category A (required): including GEV 1050, GEV 1051, GEV 4000, PHI 2121, an independent study course (internship or senior thesis or independent /group project) in the student's major, and one course each in statistics (e.g., MAT 1230, 1235, 1250, 2310, 4310 or BIO 3105) and calculus (several possible).

In addition, students take at least one course in each of three categories:

Category B-NATURAL SCIENCE AND GEOGRAPHICAL TECHNIQUES: (BIO 3255, GEV 1500, 4050, 4101, 4250, 4300),

Category C-POLICY AND MANAGEMENT: (GEV 5100, 5200, 5300, ECO 1104, PSC 2600, 2625, 3800), and

Category D-ENVIRONMENTAL SOCIAL SCIENCES & HUMANITIES: (GEV 2000, 2100, 2200, 2300, HIS 2276, PHI 2160, 2430, PJ 2200, SOC 3750). Occasionally, other courses (e.g., courses taken overseas) may be used to fulfill requirements by permission of Director.

A modified curriculum is available for students in Civil and Environmental Engineering. Please see the Director and visit the website for advice on completing the Concentration.

See the Web site address above for more information.

ETHICS – CONCENTRATION AND MINOR

Director: Dr. Mark Doorley

Associate Director: Brett Wilmot, Ph.D.

Office: 485 St. Augustine Center

Tel. (610) 519-4692

Fax. (610) 519-8026

Web site: www.villanova.edu/artsci/ethics/

Course descriptions: www.artsci.villanova.edu/courses/ethics

College of Liberal Arts and Sciences

The University believes that issues of ethics and values are at the heart of every human endeavor. In addition to regular requirements in the sciences and humanities, the College of Liberal Arts and Sciences and the Villanova School of Business require each student to take a special multidisciplinary course in ethics, typically in the sophomore year. The purpose of this course is to give students the opportunity to examine and discuss both ethical theories and their applications to contemporary moral issues. This course is designed to contribute to the implementation of Villanova's mission statement which states that, as a Catholic institution Villanova both emphasizes the values of the Jewish and Christian humanistic traditions and concerns itself with all value systems.

CONCENTRATION: The Ethics Concentration offers students an opportunity to pursue in-depth an intellectual discipline that studies human character and conduct. Each student in the concentration selects one of four tracks: Ethics and Health Care; Ethics, Politics and Law; Ethics Economics and Public Policy; or Ethics, Science, Technology and Environment. Concentrators must also fulfill the service requirement.

Required Courses for all tracks: ETH 2050 and ETH 4000

Service component: A minimum of 100 hours of approved service, including work with the poor or otherwise marginalized members of our society and/or work related to building a sustainable world environment. This component affords students the opportunity to engage in practical moral inquiry. The student, in conjunction with the program director, will arrange and design the service with the goal of enhancing comprehension of applied ethical issues in the track selected by the student.

Ethics Minor: The Ethics Program offers an ethics minor that is open to all undergraduate students at Villanova University. The rationale for this academic program is based on two pillars. First, Villanova University prides itself on presenting an educational alternative built around a clear ethical core, in particular, the moral teachings of the Catholic Church. An ethics minor allows students to pursue the study of ethics explicitly and in depth as part of their undergraduate education but without committing to the more extensive demands of a concentration. This minor contributes directly to the mission of the university. Second, a focus on ethics not only benefits students' intellectual and moral development and contributes to the public perception of the university but also has tangible benefits for students as they apply for graduate studies, fellowships, and jobs on completion of their studies.

Academic Requirements: ETH 2050 is the gateway course for the ethics minor. Ordinarily, a student must earn a B or better in ETH 2050 to be eligible for the minor. Generally, a student will declare the minor after completing ETH 2050. In discussion with the faculty of the Ethics Program, the student will create a course of study that pursues a thematic program or question that the student identifies. To complete the requirements for the Ethics Minor, a student must prepare an E-Portfolio which will collect representative written work that he or she has done for the courses taken in pursuit of the minor, including the work for ETH 2050. A student is required to complete two

upper-level ethics courses in theology and two upper-level ethics courses in philosophy. Each semester the courses that will count toward the minor will be marked in the Master Schedule.

See the Web site address above for more information.

FRENCH AND FRANCOPHONE STUDIES

Chair: Dr. Mercedes Juliá

Program Coordinator: Dr. Jan Rigaud

Office: 303 St. Augustine Center

Tel. (610) 519-6955

Website: www.classicalmodernlanglit.villanova.edu/french

Course Descriptions: www.artsci.villanova.edu/courses/french

MAJORS: Majors in French and Francophone Studies are required to take ten courses above the intermediate level (1122). Once a sequence of language courses has begun, a student may not revert to a lower level course. This does not apply to upper level courses (above 1132). French 1133 and the research seminar ML 2100 are required for all majors in French.

MINORS: For a minor in French four courses above the intermediate level in the language are required.

The Department of Modern Languages and Literatures also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper level literature course in any language taught in the Department may satisfy the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the French and Francophone Studies major, except for double majors.

Students may obtain up to six credits through the Villanova summer program abroad in France.

See the Web site address above for more information.

GEOGRAPHY

Chair: Dr. Francis A. Galgano Jr.

Office: Mendel G-67-D

Website: www.villanova.edu/artsci/geoenv/

Program Director: Dr. J. Harold Leaman

College of Liberal Arts and Sciences

Tel. (610) 519-4663

Course descriptions: www.artsci.villanova.edu/courses/geography.html

The Geography major is an integrating, multi-disciplinary academic program within the Department of Geography and the Environment. The geography major focuses on linkages between human and natural environments within a spatial context using state-of-the-art technology such as satellite imagery, GPS, computer mapping, and Geographic Information Systems. Geography majors receive an integrated education that focuses on the spatial dynamics of economic, political, cultural, and environmental systems. The major is dynamic, focuses on critical global trends, and has applicability to a wide variety of fields in government, science, education, business, and engineering. Individual programs are formed around major geographic problems and world regions. The department offers course work in four areas (1) human systems analysis; (2) geographical techniques; (3) regional analysis; and (4) environmental analysis and human dimensions of global environmental change.

MAJOR: At least 30 credits in geography. The distribution is given below:

- Introductory Courses (9 credits): GEV 1001 (International Approaches to Geography), 1500 (Physical Geography), and 1750 (Geography Techniques)
- Regional Geography (3 credits): Any one of five regional courses (i.e., Europe, North America, Asia, Africa, and the Middle East)
- Geographical Technology (3 credits): One of four geo-techniques courses (i.e., Remote Sensing, Geographic Information Systems, Advanced Cartography; Air Photo Interpretation)
- Research Seminar (3 credits): GEV 2500 (Global Change in Local Places)
- Senior Seminar or Independent Study (3 credits): One GEV 6000-level course
- Geography Electives (9 credits): Any focused program developed from the remaining 1000, 2000, 3000, 4000, 5000, and 6000 series courses

MINOR: Requirements are: GEV 1000 introductory courses (3 credits); GEV 3000 regional courses (3 credits); and 9 credits from any combination of the 1000, 2000, 3000, 4000, 5000, and 6000 series courses.

Majors and Minors who meet certain academic standards are eligible for membership in The Eta Lambda chapter of Gamma Theta Upsilon, The International Geography Honors Society, which annually sponsors activities, lectures, and field trips. Internships designed for geography majors are also available. Geography students participate in professional conferences and student paper competitions in regional professional societies.

See the Web site address above for more information.

GENDER AND WOMEN'S STUDIES

CoDirec Catherine Kerrison, Ph.D., and Lisa Sewell, Ph.D.
Office: 204 Old Falvey
 610-519-3815
Web Site <http://www.villanova.edu/artsci/gws/>

The Gender and Women's Studies Program is an interdisciplinary program providing courses, a minor, and a concentration in Gender and Women's Studies. It is open to students in all degree programs. In addition to the courses listed below, Gender and Women's Studies generates new, specialized topics courses each semester. Please check the Web site for current course offerings.

MINOR: The minor in Gender and Women's Studies requires students to take a total of six courses including GWS 2050-Introduction to Gender and Women's Studies, and GWS 5000-Integrating Seminar, which is taken as a culminating course.

CONCENTRATION: The concentration requires a total of eight courses, including GWS 2050 and GWS 5000.

Introduction to Gender and Women's Studies is offered every fall semester, and the Integrating Seminar is offered every spring. Other courses for the GWS minor or concentration may be taken in a variety of departments, reflecting the interdisciplinary nature of gender and women's studies, as long as they are designated with the Gender and Women's Studies attribute (a partial list appears below) on the NOVASIS Master Schedule and/or approved by the Academic Director of the Gender and Women's Studies program.

GWS 2050 Introduction to Gender and Women's Studies

GWS 3000 Independent Study

GWS 5000 Integrating Seminar (required; topic varies) AAH 3001 Women in Art

COM 3406 Gender and Communication

COM 3346 Gender and Film

ENG 2300 Women in Literature
HIS 2296 History of American Women
HIS 3360 Women in Pre- Modern Western Civilization
NUR 4800 Women's Health Issues
PHI 2420 Philosophy of Women

College of Liberal Arts and Sciences

PHI 4900	Feminist Theory
PJ 2800	Race, Class and Gender
PSC 2700	Women and Politics
PSY 3000	Psychology of Women
SOC 2300	Sociology and the Family
SOC 3500	Sociology of Gender Roles
THL 5850	Women in Religion and Society

Topics – GWS Director can approve other courses offered by departments. (Please see Master Schedule.)

See the Web site address above for more information.

GERMAN

Chair: Dr. Mercedes Juliá

Program Coordinator: Dr. Charles Helmetag

Office: 303 St. Augustine Center

Tel. (610) 519-7794

Web site: www.classicalmodernlanglit.villanova.edu/german

Course descriptions: www.artsci.villanova.edu/courses/languages

MAJOR: Due to lack of enrollment, the major in German has been discontinued at Villanova. Students who registered to have a major in German prior to August 21, 2008, may continue with their studies until they have fulfilled all course requirements. New majors are not permitted at this time. Those who are already registered are required to take 10 courses above the intermediate level (1122). Once a sequence of language courses has begun, a student may not revert to a lower level course. This does not apply to upper-level courses (above 1132). Junior and Senior majors must satisfy a one-semester research requirement by enrolling in either German 3212 or 3213.

MINOR: Due to lack of enrollment, Villanova is no longer accepting minors in German. Students who registered prior to August 21, 2008, will be allowed to finish their minor. For a minor in German, four courses above the intermediate level in the language are required.

The Department of Modern Languages and Literatures also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper-level literature course in any language taught in the Department satisfies the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the major in a language, except in the case of double majors.

Students may obtain up to six credits through the Villanova summer programs abroad in Germany.

GLOBAL INTERDISCIPLINARY STUDIES

Director: Dr. Maghan Keita
Offices: 443 St. Augustine Center
Web site: <http://www.villanova.edu/artsci/global/>

The Institute for Global Interdisciplinary Studies is rooted in and committed to the Augustinian and Catholic tradition of an inspired intellectual community, oriented by a quest for justice and peace. In a world beset by crisis, the mission of the Institute is to train a dedicated cadre of students who see themselves as problem-solvers and advocates for justice and peace worldwide.

MAJOR: The Institute for Global Interdisciplinary Studies provides a unique and dynamic course of study that consists of 10 courses comprising 36 credit hours for the completion of the major. The 10-course sequence has as its center a five-seminar core that consists of the Proseminar: Introduction to Global Interdisciplinary Studies; the Junior Research Seminar; and the Senior Capstone Colloquium.

These courses are mandatory. In addition to these three, the student will choose two other seminars to complete the core. All seminars will be team-taught and capped at 15 students. Seminars are open to the University population at large; however, Global Studies majors will receive priority. The remaining element of the IGIS curriculum will be satisfied by the selection of five more courses, seminar and/or lecture-discussion in areas of the student's choosing, which correspond to the designed plan of study. Currently, there are approximately 200 courses from which a student might choose.

All students majoring in Global Interdisciplinary Studies must complete the College of Liberal Arts and Sciences language requirement of proficiency in the language of their choosing at the intermediate level. Language choices for Global Interdisciplinary Studies majors will complement their selected areas of studies. The choice of language, along with the overall course of study, will be augmented by a mandatory semester abroad that will focus on language and cultural immersion.

Student initiative and responsibility are central to the design and the completion of a successful course of study as an Institute for Global Interdisciplinary Studies major. In conjunction with the Institute director and a faculty mentor of each student's choosing, the student will create her/his own major. The major will be tailored to the interests of the individual student. Students will be in ongoing consultation with the director and their mentor to refine the course of study.

MINOR: While the Institute offers no minor per sé, minors are possible within the area of Critical Language and Cultural Studies for Arabic, Chinese, Japanese, and Russian. Information concerning the requirements for these minors can be found on their respective pages. In addition, students interested in minoring in those areas should

College of Liberal Arts and Sciences

consult their websites. These can be accessed through the Institute for Global Interdisciplinary Studies website.

Acceptance: Admission to the major for Global Interdisciplinary Studies is open to all students of the College of Liberal Arts and Sciences who are in good standing. Students must fill out the application and complete its essay prior to admission.

See the Web site address above for more information.

HISTORY

Chair: Dr. Marc Gallicchio, Chairperson

Office: 403 St. Augustine Center

Tel. (610) 519-4660

Website: www.villanova.edu/artsci/education/

Course descriptions: www.artsci.villanova.edu/courses/history

MAJOR: History majors must earn 27 credits in history beyond the basic World History course (Themes in Modern World History [HIS 1050] or Themes in Pre-Modern World History [HIS 1040]). *Effective Fall 2007*, the ten courses required for the major now must include:

- History 1040 or 1050
- Either HIS 2000, Investigating US History I, or HIS 2001, Investigating US History II;
- At least one junior research seminar;
- History 5501 (Seminar in Historical Methodology) or History 5515 (Independent Research);
- At least six additional history courses of the student's choice.

MINOR: History minors are required to earn 18 credit hours in history. For students in the College of Liberal Arts and Sciences, the 18 credit hours must include HIS 1050, Themes in Modern World History, or HIS 1040, Themes in Pre-Modern World History.

The following courses may also be taken for credit toward the History major or minor:

- AAH 1101 History of Art: Beginnings to Renaissance
- AAH 1102 History of Art: Renaissance to Contemporary World

See the Web site address above for more information.

HONORS PROGRAM

Director: Dr. Edwin L. Goff

Office: 103 St. Augustine Center

Tel. (610) 519-4650

Website: www.honorsprogram.villanova.edu

Course descriptions: www.artsci.villanova.edu/courses/honors

The University Honors Program is a comprehensive four-year curriculum of small seminars designed to foster the free and open exchange of ideas among students and faculty. Honors courses emphasize extensive reading and writing, and attempt to develop the critical abilities of judgment and analysis. Innovative courses include team-taught seminars and seminars given by visiting professors. All Honors courses are enriched by a variety of lectures, cultural events, and social activities.

Students in the College of Liberal Arts and Sciences may pursue the degree of B.A or B.S. Honors Program. The Honors Program Sequence in Liberal Studies (the Honors Program Interdisciplinary Concentration) is open to students in all colleges.

Acceptance: Admission to the University Honors Program is by invitation or by application to the Director. Members of the Program are expected to take Honors courses at least every third semester, and to maintain high academic standards (At least a 3.33 overall QPA). Individual Honors courses are open to all Villanova students who have at least a 3.0 overall QPA or will bring a special expertise to the course, contingent upon class size limitations. Admission to all Honors courses requires the permission of the Director.

All first-year Honors students are required to complete a two-semester Gateway Portfolio Project: HON 1996 Gateway Portfolio I; and HON 1997 Gateway Portfolio II.

All second-year Honors students intending to pursue an Honors major, or the Honors Interdisciplinary Concentration are required to complete HON 1998 Gateway Portfolio III; and HON 1999 Gateway Portfolio IV.

Each Portfolio course is one-credit, and is graded Satisfactory/Unsatisfactory; the one-credit Portfolio course is taken in addition to each student's normal course load each semester.

B.A.H. Degree: Twelve Honors courses, including:

- The Humanities Seminar HON 2550, or the Social Science Seminar HON

College of Liberal Arts and Sciences

2560;

- A five credit HON 6001 & HON 6002, or six-credit HON 6000 & HON 6002 senior thesis, and Three upper-level courses not used to fulfill core requirements.

Students receiving a Bachelor of Arts, Honors Degree, will not receive another Bachelor of Arts Degree at graduation. Any additional major will be listed on the student's transcript.

B.S.H. Degree: Ten Honors courses, including:

- The Natural Science Seminar, HON 2570,
- A five-credit senior thesis HON 6001 & HON 6002 , and
- Three upper-level courses which may be used to fulfill core requirements.

Honors Program Sequence (Concentration) in Liberal Studies:

Eight courses in Honors, at least three of which must be upper level.

At least one of the upper-level seminars must be selected from:

The Humanities Seminar HON 2550, or
The Social Science Seminar HON 2560, or
The Natural Science Seminar, HON 2570

All Honors Program certifications require a minimum overall QPA of 3.33, and satisfactory completion of the four-semester Gateway Portfolio Project. Honors classes may be used to fulfill Arts and Sciences requirements and electives for students in all of the undergraduate colleges.

For first- and second-year students, the Program offers Honors seminars in place of the core curriculum introductory courses in the humanities and social sciences. Some students are invited to take multi-credit, team taught interdisciplinary seminars (HON 1000, 1050, 2000 series), which examine the major works of Western and World Civilization in place of regular core requirements. This Honors core for students pursuing the degrees B.A.H or B.S.H. culminates with specially designed seminars on methodology, current issues, and ethical questions in the humanities (HON 2550), social sciences (HON 2560), or natural sciences (HON 2570).

On the advanced level, the Honors Program offers a variety of seminars that include traditional themes of enduring significance, timely issues of concern, and interdisciplinary studies not available elsewhere in the college. All have in common small student enrollment, active class participation, and intensive writing requirements. Specific offerings change from semester to semester to reflect the

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interests of faculty and students in the Program.

All upper-level seminars also fulfill major, concentration, and minor requirements in specific academic disciplines.

See the Web site address above for more information.

HUMANITIES

Chair: Dr. Kevin Hughes
Office: 304 St. Augustine Center
Tel. (610) 519-6165
Website: www.humanities.villanova.edu

The Department of Humanities offers an integrated, interdisciplinary curriculum. This is available to Humanities majors as well as to students at Villanova University generally. In some cases, Humanities courses will fulfill certain requirements for the Core Curriculum of the College of Liberal Arts and Sciences.

MAJOR: The Humanities major requires the completion of 10 courses. Four Gateway Courses are required of all majors, which are: HUM 2001: God, HUM 2002: Human Person, HUM 2003: World, HUM 2004: Society (see course descriptions below). Students then take five free electives, two of which have to be taken within the Department of Humanities. Finally, in senior year, Humanities majors take HUM 6500: Senior Capstone Seminar.

MINOR: Students must take two of the four Gateway Courses: HUM 2001, HUM 2002, HUM 2003, HUM 2004 plus three electives two of which must be taken in the Humanities Department.

See the Web site address above for more information.

HUMAN SERVICES

Chair: Dr. John Durnin
Office: 302 St. Augustine Center
Tel. (610) 519-4620
Web site: www.villanova.edu/artsci/education/
Course descriptions: www.artsci.villanova.edu/courses/Humanservices

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The Human Service program is designed for students who desire a degree in the helping professions. The foundation of this program is a strong grounding in the liberal arts supplemented by an experiential component. The program culminates in a 6 credit practicum with specialization in care-giving, counseling, human resources, or non-profit groups.

ACCEPTANCE: Human Services candidates may declare the major during the sophomore year. A minimum GPA of 2.5 is required for acceptance. Students not meeting this requirement may petition the Chair for acceptance into the program. To declare the major, come to the offices of the Department of Education and Human Services.

MAJOR: The requirements for a major in Human Services include the following courses: HS 2000, 2100, 2200, 3000, 3100, 3400, 4000, and 4100. HS Majors must also complete minors in Psychology and Sociology, which include the following required courses: Psychology 1000, 2200, 2500, 2600, and one elective; Sociology 1000, 2200, 2300, 3600, and one elective.

MINOR: A minor in Human Services requires a total of 15 credits. Distribution requirements are: HS 2000, 2100, 3000, 3100. An additional 3 credits must be earned from one of the following: HS 2200, 3400, 3500, 3600, 3700.

See the Web site address above for more information.

IRISH STUDIES CONCENTRATION

Director: Dr. James J. Murphy
Office: 467 St. Augustine Center
Tel. (610) 519-4647
Website: www.artsci.villanova.edu/irishstudies/

Irish Studies explores the history and culture of the Irish people from different perspectives—literature, history, art, politics, and folklore. The program is open to students from all colleges. Interested students may also study in Ireland either in a Semester Abroad program or with the Villanova in Ireland Summer program at NUI Galway. Details are available in the Irish Studies Office.

CONCENTRATION: Fifteen credits including two core courses, ENG 2500 and HIS 3216, and any three of the following: AAH 3007; ENG 2450, 2460, 2490, 2500, 2700, 3615; HIS 3214, 3215; PSC 4950, 6875.

See the Web site address above for more information.

ITALIAN

Chair: Dr. Mercedes Juliá

Program Coordinator: Dr. Gaetano Pastore

Office: 303 St. Augustine Center

Tel. (610) 519-4696

Website: www.classicalmodernlanglit.villanova.edu/italian/

Course descriptions: www.artsci.villanova.edu/courses/italian

MAJOR: Majors in Italian are required to take ten courses above the intermediate level (1122). Once a sequence of language courses has begun, a student may not revert to a lower level course. This does not apply to upper level courses (above 1132). Research Seminar: ML 2100 is required of all majors in Italian.

MINOR: For a minor in Italian four courses above the intermediate level in the language are required.

The Department of Classical & Modern Languages and Literatures also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper level literature course in any language taught in the Department satisfies the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the major in a language, except in the case of double majors.

Students may obtain up to six credits through the Villanova summer programs abroad in Italy.

See the Web site address above for more information.

JAPANESE MINOR

Director: Dr. Maghan Keita

Office: 443 St. Augustine Center

Web site: <http://www.villanova.edu/artsci/global/>

Course descriptions:

<http://www.villanova.edu/artsci/global/criticallangs/japanese/minor.htm>

MINOR: The minor in Japanese Language and Cultural Studies requires four courses in Japanese language through the intermediate level (JPN 1111- Introduction to Japanese I / JPN 1112- Introduction to Japanese II, and JPN 1121- Intermediate Japanese

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I / JPN 1122- Intermediate Japanese II). In addition, students must also select two courses from the following list of electives:

- JPN 1131- Advance Japanese I
- JPN 1132- Advance Japanese II
- JPN 2100 Japanese Literature in English Translation
- JPN 2102 Japanese Film
- JPN 2115 Women in Asia
- JPN 2143 Japanese Animation: Art, Culture & Communication
- JPN 2144 Japanese Culinary Culture
- JPN 3412 Special Topics

LATIN AMERICAN STUDIES CONCENTRATION

Director: Dr. Satya Pattnayak
Office: 273 St. Augustine Center
Tel. (610) 519-4773
Website: www.villanova.edu/artsci/latinamerstudies/

The Latin American Studies Program is an interdisciplinary program that provides two degrees: a Minor and a Concentration. It is open to all students in the University's four undergraduate colleges.

CONCENTRATION: A total of 24 credits are needed to satisfy the requirements for a Concentration. Two courses in Advanced Spanish language (6 credits), LAS 3950 (3 credits), and any combination of five courses (15 credits) from the list below will suffice.

MINOR: A total of 21 credits are needed to satisfy the requirements for a Minor. Two courses in Spanish language at or above the intermediate level (6 credits), LAS 3950 (3 credits), and any four additional courses (12 credits) from the course list below will suffice.

COURSES

- Chile* Summer courses in Chile: 001. Latin American Voices; 002. Globalization, Culture, and Society in Chile; 003. Modern Political History of the Southern Cone; 004. Chilean Economic Development; 005. Intensive Spanish; 006. Internship
- Costa Rica** Semester courses in Costa Rica: 001. Human Development and Poverty in Central America; 002. Justice, Gender, and Challenges in Development; 003. Justice and Human Rights in Latin America; 004. Politics and Democracy and Development in Latin America; 005. Environmental Issues and Sustainable Development in Central

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America; 006. Urban and Rural Development: Impact on Central America's Environment; 007. Intensive Spanish
ECO 3127Economics of Underdevelopment
ECO 4200Topics: 001. The Economics of Latin America and the Caribbean;
Topics: 002. Economic Development of Central America
ENG 2041Travel writings: Latin America
HIS 4405The Americas and Spanish Conquest
HIS 4410Colonial Latin America
HIS 4415Revolutionary Latin America
HIS 4420Contemporary Latin America
HIS 4470Third World Revolutions
HIS 4490Topics in World History: 001. Racism and Justice in the Americas
HIS 4495Topics in Latin American History
HIS 4499History of the Caribbean
HON 4000Latin American Themes
LAS 3412Special Topics: 001. Religion in Latin America;
Special Topics: 002.Immigration, Ethnicity, and Development
LAS 3950Inter-disciplinary Latin American Seminar
LAS 5000Internship*; **
LAS 6000Independent Study Research
PHI 2160The Ethics of war
PSC 4750Latin American Politics
PSC 5800Politics of International Economics
SOC 3600Race and Ethnic Relations
SOC 3750Human Populations
SOC 4000Sociological Themes: 001. Immigration, Ethnicity, and Development:
002. Sustainable Development in Latin America
SOC 6500Modernization and Development Seminar:
Latin America in Comparative Perspective
SPA 1121Intermediate Spanish I
SPA 1122Intermediate Spanish II
SPA 1131Conversation and Composition
SPA 1132Advanced Conversation and Composition
SPA 1133Business Spanish I
SPA 1134Business Spanish II
SPA 1138Advanced Spanish Grammar
SPA 2143Latin American Culture
SPA 2212Survey of Latin American Literature
SPA 2213Latin American Theater
SPA 2214Latin American Novel
SPA 2215Latin American Short Story
SPA 3412001. Poesia, Historia y con Política;
002. Latin America Today;
003. Women's Voices in Latin America;
004. Neruda
SPA 3822Latin American Poetry
THL 3740Liberation Theologies

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THL 4300 Ethical Issues in Peace and Justice

THL 4600 Global Poverty

THL 5990 Religion in Latin America

* Offered through Villanova Summer Program in Valparaiso, Chile.

** Offered through VU's partner (CIDH: International Center for Sustainable Human Development) in Costa Rica.

See the Web site address above for more information.

MATHEMATICAL SCIENCES

Chair: Dr. Douglas Norton

Office: 305 St. Augustine Center

Tel. (610) 519-4850

Website: www.villanova.edu/artsci/mathematics/

Course descriptions: www.artsci.villanova.edu/courses/math

FRESHMAN CALCULUS: Prospective first year Villanova students who have completed a year's study of calculus in high school should take the College Board Advanced Placement test for possible credit for the first course at Villanova.

MAJOR: MAT 1500, 1505, 2500, 2600, 2705, 3300, 3400, 3500, and 5900; an approved analysis elective course, e.g. MAT 3305, 4270, or 5400, plus four additional mathematics courses numbered 3000 or higher; a two-semester natural science sequence with laboratory, e.g. PHY 2410/2411 and 2412/2413; a third science course, either 3 credit plus an appropriate lab or 4 credit, such as CSC 1051 (all science courses must be at the science-major level).

MINOR: MAT 1500, 1505, 2500, 2600, plus four courses chosen from MAT 2705, and courses numbered 3000 or higher. Students may petition to substitute an approved upper division course (e.g., CSC 4170, ECE 3720, PHY 4202, CEE 3704) in his/her major for one of these four courses. To graduate with a minor, students must have at least a 2.0 Q.P.A. in their Mathematics courses.

NOTE: The University offers multiple versions of calculus and of statistics. One cannot receive credit for two similar versions of calculus or statistics without prior approval. Please contact the department for more information.

See the website address above for more information.

MILITARY SCIENCE PROGRAM AND MINOR (ARMY ROTC)

Chair: LTC Jon Peterson, U.S. Army
Office: Military Science Program
Website: www.armyrotc.villanova.edu
Course descriptions: www.widener.edu/rotc

ARMY ROTC PROGRAM: By agreement with Widener University's Department of Military Science, Villanova offers a program of study leading to a commission as a Second Lieutenant in the United States Army. Details are found in the Academic Programs Section of the Undergraduate Catalog.

COURSES OF STUDY:

MS 101 Leadership and Personal Development 1 credit
MS 102 Introduction to Tactical Leadership 1 credit
MS 201 Innovative Team Leadership 2 credits
MS 202 Foundations of Tactical Leadership 2 credits
MS 301 Adaptive Tactical Leadership 3 credits
MS 302 Leadership in Changing Environments 3 credits
MS 401 Developing Adaptive Leaders 3 credits
MS 402 Leadership in a Complex World 3 credits
MS 499 American Military History 3 credits

MINOR: Students who successfully complete all military science courses 101 through 402 (18 credit hours) will earn a minor in military science.

See the Web site address above for more information.

MODERN LANGUAGES AND LITERATURES

Chair: Dr. Mercedes Juliá
Office: 303 St. Augustine Center
Tel. (610) 519-4680
Website: www.classicalmodernlanglit.villanova.edu/

MAJORS: Majors in **French and Francophone Studies, Italian, or Spanish** are required to take ten courses above the intermediate level. Once a sequence of language courses has begun, a student may not revert to a lower level course. This does not apply to upper level courses (above 1132). Majors in French and Italian, are required to take the

research seminar, ML 2100. FRE 1133 is required of all majors in French and Francophone Studies. For majors in Spanish SPA 1138 or SPA 2400, SPA 2100 or SPA 2212 and SPA 3950 are required.

MINORS: Students may minor in **Arabic, Chinese, French and Francophone Studies, German, Italian, Japanese, Russian, or Spanish.** Minors in Arabic, Chinese, Japanese, and Russian must complete six courses in the language in sequence. For minors in French and Francophone Studies, German, Italian and Spanish four courses above the intermediate level in the language are required.

The Department also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper level literature course in any language taught in the Department satisfies the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the major in a language, except in the case of double majors.

Students may obtain six credits through Villanova summer programs abroad in France, Germany, Italy, Chile, and Spain.

See the Web site address above for more information.

NAVAL SCIENCE PROGRAM AND MINOR (NAVY ROTC)

Chair: Col. Bryan Manthe, USMC

Office: 103 John Barry

Tel. (610) 519-7380

Website: www.nrotc.villanova.edu

Course descriptions: www.nrotc.villanova.edu/current_students/courses

Eligibility for a commission in the U.S. Navy or the U.S. Marine Corps through the NROTC Program is contingent upon successful completion of required University and naval professional courses of study. Courses required by the NROTC program are as follows:

1. Navy Option: NS 0100, 1000, 1100, 2100, 2200, 3100, 3200, 4100, 4200 plus six credits each of Calculus (completed by end of Sophomore year), Physics (completed by the end of Junior year), and English (no time requirement); and, three credits each of Cultural Awareness and American Military Affairs (also no time requirement). All courses must be approved by the Naval Science Advisor.

2. Marine Option: NS 0100, 1000, 1100, 3500, 3600, 4100, 4200 and three credits of American Military Affairs, approved by the Marine Option Advisor.

3. Nurse Option: NS 0100, 1000, 1100, 4100, 4200, and six credits of English, approved by Naval Science Advisor.

MINOR:

(Navy Option) NS 0100, 1000, 1100, 2100, 2200, 3100, 3200, 4100, 4200.

(Marine Option) NS 0100, 1000, 1100, 3500, 3600, 4100, 4200.

See the Web site address above for more information.

PEACE AND JUSTICE CONCENTRATION

Director: Dr. William Werpewowski

Office: Ground Floor, Sullivan

Tel. (610) 519-4499

Website: www.villanova.edu/artsci/peaceandjustice/

Course descriptions: www.artsci.villanova.edu/courses/pj

CONCENTRATION: Twenty-four, including all requirements for the minor, plus two additional Peace and Justice courses, courses cross-listed by Peace and Justice, or courses otherwise earning Peace and Justice credit. Note: No more than three foundational courses may receive credit for the concentration.

MINOR: Eighteen credit hours, including one of the following foundational courses: PJ 2250 Violence and Justice in the World, PJ 2600 Catholic Social Teaching, PJ 2700 Peacemakers and Peacemaking, PJ 2800 Race, Class and Gender, PJ 2900 Ethical Issues in Peace and Justice; and five other courses in Peace and Justice, courses cross-listed by Peace and Justice, or courses otherwise earning Peace and Justice credit. *Note: No more than three foundational courses may receive credit for the minor.*

See the Web site above for more information.

PHILOSOPHY

Chair: Dr. John Carvalho

Office: 108 St. Augustine Center

Tel. (610) 519-4690

Website: www.philosophy.villanova.edu

Course descriptions: www.artsci.villanova.edu/courses/philosophy

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PHI 1050 and one upper-division elective), students can complete the requirements for a Philosophy Major by taking nine additional Philosophy courses. These must include the following.

(1) Three courses in the History of Philosophy sequence:

- PHI 3020 History of Ancient Philosophy
- PHI 3030 History of Medieval Philosophy
- PHI 3040 History of Early Modern Philosophy

With the approval of the Chair of the Department, upper division electives in Ancient, Medieval and Modern Philosophy as well as Topics courses offered in Philosophy and Honors may substitute for the courses in this sequence. Examples of such courses are:

- PHI 4100 Plato and Aristotle
- PHI 3100 Augustine and Antiquity
- PHI 3120 Augustine and Modernity
- PHI 3160 History of Islamic Philosophy
- PHI 3410 Introduction to St. Thomas Aquinas

(2) Two capstone courses in one of the following combinations

(A) One Course numbered PHI 5000: Advanced Seminar in Philosophy and
One course numbered PHI 6000: Research Seminar

(B) Two courses numbered PHI 5000: Advanced Seminar in Philosophy

(3) Four additional upper-division electives

·Students choosing to complete the capstone requirement with option (A) follow the THESIS PATH to the major.

On this path, the four additional upper-division electives are all "free electives." The focus for the student following this path to the major in the thesis, submitted to fulfill the requirements for PHI 6000: Research Seminar. The topic and the research dedicated to completing the thesis are worked out in consultation with a full time member of the Philosophy Department faculty who serves as an advisor on the thesis project and another member of the Department faculty who serves as a second reader. Preparations for the thesis project should begin in the semester before its expected completion (fall semester of the senior year).

·Students choosing to complete the capstone requirement with option (B) follow the TRACK PATH to the major.

On this path, at least three of the four additional upper-division electives must come from the courses assigned to one of the six tracks below. The focus for the student following this path is the track. Courses are assigned to tracks to guide student interests in the study of Philosophy and in the pursuit of a major in Philosophy.

Minor in Philosophy

Students can minor in Philosophy by taking any five courses offered by the Philosophy Department including PHI 1050, required to complete the College Core requirements, but including no more than two courses from the following list: PHI 1050, PHI 2010, PHI 2030, PHI 2115, PHI 2150.

Double Majors

Because of the interdisciplinary nature of Philosophy studies, the Department welcomes and encourages students who want to combine their philosophy major with a major in another discipline. In order to make this possible, Philosophy double majors can (with the permission of the Chair of the Philosophy Department) count up to six cognate or related credits from the second major toward fulfilling the Philosophy Major requirements.

See the Web site address above for more information.

PHYSICS

Chair: Dr. Philip Maurone

Office: 347 Mendel

Tel. (610) 519-4860

Website: www.villanova.edu/artsci/physics/

Course descriptions: www.artsci.villanova.edu/courses/physics

Bachelor of Science, MAJOR:

PHY 2410 University Physics: Mechanics

PHY 2411 Lab: Mechanics

PHY 2412 University Physics: Electricity & Magnetism

PHY 2413 Lab: Electricity & Magnetism

PHY 2414 University Physics: Thermodynamics

PHY 2415 Lab: Thermodynamics

PHY 2416 Modern Physics

PHY 2417 Lab: Modern Physics

PHY 2601 Computational Physics Lab I

PHY 2603 Computational Physics Lab II

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PHY 3310 Electronics
PHY 3311 Electronics Laboratory
PHY 4000 Electricity & Magnetism I
PHY 4001 Electricity & Magnetism I Laboratory
PHY 4002 Electricity & Magnetism II
PHY 4003 Electricity & Magnetism II Laboratory
PHY 4100 Mechanics I
PHY 4102 Mechanics II
PHY 4200 Mathematical Physics I
PHY 4202 Mathematical Physics II
PHY 4301 Experimental Methods I
PHY 5100 Quantum Mechanics
PHY 5200 Thermodynamics/Statistical Mechanics
PHY 5300 Subatomic Physics
CHM 1103 General Chemistry Lab I
CHM 1151 General Chemistry I
CHM 1152 General Chemistry II
MAT 1500 Calculus I
MAT 1505 Calculus II
MAT 2500 Calculus III
MAT 2705 Differential Equations with Linear Algebra.

In addition, Physics majors must select a minimum of one elective from the Physics departmental offerings and two science courses chosen from courses for Science, Mathematics or Computer Science Majors.

See the website address above for more information.

Bachelor of Arts, MAJOR:

PHY 2410 University Physics: Mechanics
PHY 2411 Lab: Mechanics
PHY 2412 University Physics: Electricity & Magnetism
PHY 2413 Lab: Electricity & Magnetism
PHY 2414 University Physics: Thermodynamics
PHY 2415 Lab: Thermodynamics
PHY 2416 Modern Physics
PHY 2417 Lab: Modern Physics
PHY 2601 Computational Physics Lab I
PHY 2603 Computational Physics Lab II
PHY 3310 Electronics
PHY 3311 Electronics Laboratory
PHY 4000 Electricity & Magnetism I
PHY 4001 Electricity & Magnetism I Laboratory
PHY 4100 Mechanics I
PHY 4200 Mathematical Physics I
PHY 4301 Experimental Methods I
PHY 4303 Experimental Methods II

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PHY 5100 Quantum Mechanics
CHM 1103 General Chemistry Lab I
CHM 1151 General Chemistry I
CHM 1152 General Chemistry II
MAT 1500 Calculus I
MAT 1505 Calculus II
MAT 2500 Calculus III
MAT 2705 Differential Equations with Linear Algebra.

In addition, BA majors must complete four courses in a minor, concentration, or technical elective with the Chairperson's approval.

See the website address above for more information.

MINOR: Successful completion of an introductory sequence in Physics, plus a minimum of 15 credits from the upper level Physics courses numbered above 3000. Physics minors are open to all science and engineering students.

Applied Minor: All Math Courses required for a Math degree, plus

MAT 4310 PHY 2416/2417
PHY 2410/2411 PHY 3310/3311
PHY 2412/2413 PHY 4301
PHY 2414/2415 PHY 4303

See the Web site address above for more information.

POLITICAL SCIENCE

Chair: Dr. A. Maria Toyoda
Office: 202 St. Augustine Center
Tel. (610) 519-4710
Website: www.villanova.edu/artsci/psc/
Course descriptions: www.artsci.villanova.edu/courses/psc

MAJOR: Thirty credit hours in political science courses are required for a major including American Government (PSC 1100), International Relations (PSC 1200), research seminar (PSC 1900), and a senior seminar (PSC 6900), restricted to Political Science senior majors.

Elective courses are divided into three areas:

- American Government and Public Law (2000 and 3000 level)
- Comparative Government and International Relations (4000 and 5000 level), and

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- Political Theory and Behavior (6000-6875)

Political Science majors must take one course from each area in order to meet our 1-1-1 distribution requirement. With the exception of internships (up to 6 credits), courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major.

Any senior with a GPA of 3.0 or above may request to take a graduate PSC course. A Junior may apply for the five year BA / MA program.

CERTIFICATES and CONCENTRATIONS WITHIN THE MAJOR: A political science major may choose to earn one or more certificates or concentrations within political science in International Relations, Comparative Politics, Pre-Law, [American Politics](#), Public Administration, Political Theory, and National Security Studies. Students satisfying the requirements for these receive a document testifying to this with their diploma at graduation. The certificate or concentration does not appear on the student's transcript.

Please see <http://www.villanova.edu/artsci/psc/> for details about the five year BA / MA program, certificates, and other PSC programs.

MINOR: Fifteen credits consisting of American Government (PSC 1100), International Relations (PSC 1200), plus any three advanced PSC courses numbered 2000 and above will earn a student a minor in Political Sciences. With the exception of a 3 credit internship, courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the minor.

See the Web site address above for more information.

PSYCHOLOGY

Chair: Dr. Thomas C. Toppino

Office: 334 Tolentine Hall

Tel. (610) 519-4722

Website: www.villanova.edu/artsci/psychology/

Course descriptions: www.artsci.villanova.edu/courses/psychology

Acceptance: To choose psychology as a major, a student must have completed General Psychology, (PSY 1000 or HON 1811) or have AP credit for General Psychology. In addition, a student must have a grade of C+ or higher in General Psychology or have an overall QPA of 3.00 or higher. Because of course prerequisites, students should expect that completion of the major will require at least four semesters after their formal declaration of the major.

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MAJOR: PSY 1000 General Psychology plus 28 additional credits including PSY 4000 Statistics, 4050 Research Methods, 4100 Foundations of Modern Psychology or 4125 Contemporary Issues in Psychology, 4150 Seminar in Professional Development, 4200 Physiological Psychology, 4500 Cognitive Psychology, and 12 elective credits (four electives). PSY 4000 Statistics and 4050 Research Methods are prerequisites for many upper level Psychology courses (PSY 4200 and above). Students who contemplate majoring in psychology may begin the major early by taking PSY 1000 General Psychology, plus any elective courses for which PSY 1000 General Psychology is the only prerequisite.

MINOR: PSY 1000 General Psychology plus any combination of 12 undergraduate credits in psychology.

Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major or minor. PSY 1000 General Psychology is a prerequisite for all other courses in psychology.

See the Web site address above for more information.

RUSSIAN AREA STUDIES CONCENTRATION

Director: Dr. Lynne Harnett
Office: 427 St. Augustine Center
Tel. 610/519-4684
Web site: www.artsci.villanova.edu/russian/

The Russian Area Studies Concentration is open to all students enrolled in the University. The purpose of the concentration is to provide students with a multi-disciplinary comprehension of an exciting, important, and complex part of the world.

CONCENTRATION: Two semesters of Russian at the intermediate level, or demonstrated proficiency at an equivalent level, plus fifteen credit hours selected from among the following: HIS 3240; HIS 3241, 3242; PSC 4401, 5351; RUS 1131, 1132, 3412, 3717, 3718, 3810, 3818, 3819; SAR 4007; THL 5510; and appropriate special topics courses in Economics as approved by the director. In addition, students are required to take RAS 6000, a multi-disciplinary intensive investigation of a topic in Russian studies, generally taken in the senior year.

Students are encouraged to study in Russia for a summer or semester, either at Nizhny Novgorod State University in central Russia or at Higher School of Economics in Moscow (both have an exchange agreement with Villanova), or at another approved

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Russian university. Contact the Russian Area Studies Office or the International Studies Office for further details on available programs and transfer of credits.

See the Web site address above for more information.

RUSSIAN MINOR

Director: Dr. Maghan Keita

Coordinator of Russian Program: Dr. Boris Briker

Office: 332 St. Augustine Center

Web site: <http://www.villanova.edu/artsci/global/>

Course Descriptions:

<http://www.villanova.edu/artsci/global/criticallangs/russian/courses.htm>

MINOR: The minor in Russian Language and Cultural Studies requires four courses in Russian language through the intermediate level: RUS 1111-Introduction to Russian I, RUS 1112-Introduction to Russian II, RUS 1123- Intermediate Russian, RUS 1124- Intermediate Russian II. In addition, the minor requires two courses above the Intermediate level, such as: RUS 1131 Conversation & Composition, RUS 1132 Advanced Conversation & Composition, RUS 5900 Russian: Independent Study.

Courses taught in English do not satisfy the requirements for a Minor in Russian unless special permission is given by the Director of IGIS.

Courses taught in English include:

RUS 3412 Special Topics: Russian Film

RUS 3412 Special Topics: Russian Culture in Context (Study Abroad Course)

RUS 4120 The Russian Short Story

RUS 4130 The Russian Novel

RUS 4140 The Russian Novel II

See the Web site address above for more information.

SOCIOLOGY

Chair: Dr. Thomas Arvanites

Office: 204 St. Augustine Center

Tel. (610) 519-4740

Web site: www.villanova.edu/artsci/sociology/

Course descriptions: www.artsci.villanova.edu/courses/sociology

Acceptance: To select Sociology as a major a student must have earned a “C” or better in SOC 1000, Introduction to Sociology. Because of the major requirements, students must allow three full semesters after the declaration of the major to complete all requirements.

- **Required Courses:**

SOC 1000 Introduction to Sociology

SOC 6500 Senior Seminar

- **One of the following:**

SOC 5000 Nature and History of Sociological Theory

SOC 5050 Sociological Theory and Research

SOC 5100 Contemporary Theory and Research

- **One of the following:**

SOC 5300 Data Analysis for Social Scientists

SOC 5400 Applied Research Methods in Sociology

CRJ 5200 Criminal Justice Research and Statistics

- **Six Sociology or Criminal Justice electives** (not including CRJ 1000 or CRJ 5000)

MINOR: SOC 1000 and four other courses chosen from the offerings of the department. The student must inform the chair of his or her intention to minor and request certification of the minor when it has been completed.

A student may take an internship in a field setting in the second semester of the junior year or during the senior year. Students should consult with the Chair and Director of the Internship Program.

See the Web site address above for more information.

SPANISH

Chair: Dr. Mercedes Juliá

Program Coordinator: Dr. Carmen Peraita

Office: 303 St. Augustine Center

Tel. (610) 519-7831

Web site: www.classicalmodernlanglit.villanova.edu/spanish

Course descriptions: www.artsci.villanova.edu/courses/spanish

MAJOR: Majors in Spanish are required to take ten courses above the intermediate level (1122). Once a sequence of language courses has begun, a student may not revert to a lower level course. This does not apply to upper level courses (beyond 1132). SPA 1138 or SPA 2400, SPA 2211 or SPA 2212 and SPA 3950 are required of all majors.

MINOR: For a minor in Spanish four courses above the intermediate level in the language, including SPA 1131 and 1132 are required.

The Department of Modern Languages and Literatures also offers literature courses in English translation. Such courses may be used to fulfill a Humanities elective; however, they may not be used toward credit requirements for a language major or minor. An upper level literature course in any language taught in the Department satisfies the advanced literature core requirement. At the same time, it may also count for the minor in a language. However, it may not count for both the advanced literature requirement and the major in Hispanic Studies, except for double majors.

Students may obtain up to six credits through the Villanova summer programs in Valparaíso (Chile) and Cádiz (Spain).

See the Web site address above for more information.

STUDIO ART AND MUSIC PROGRAM

Office: 205 St. Augustine Center

Tel. (610) 519-4760

Course descriptions: www.artsci.villanova.edu/courses/sar

Courses in Studio Art and Music are administered by the chair of the Theatre Department.

See the Web site address above for more information.

THEATRE MINOR

Chair: Rev. Richard Cannuli, O.S.A.

Office: 205 St. Augustine Center

Tel. (610) 519-4760

Web site: www.villanova.edu/artsci/sociology/

Course descriptions: www.artsci.villanova.edu/courses/theatre

MINOR: Students may fulfill a Theatre Minor by completing five theatre courses (three required/two elective) and a theatre practicum. Interested students should request further information through the Theatre Department Office in St. Augustine Center for the Liberal Arts, Rm. 205.

Any student may educate himself/herself in the art and craft of theatre through Electives and through participation in the department's Theatrical Productions. Auditions and backstage positions are open to all undergraduates for the entire academic theatre season.

See the Web site address above for more information.

THEOLOGY AND RELIGIOUS STUDIES

Chair: Dr. Bernard Prusak,

Office: 107 St. Augustine Center

Tel. 610/519-4730

Web site: www.villanova.edu/artsci/theology/

Course descriptions: www.artsci.villanova.edu/courses/theology

MAJOR: Thirty-three credit hours including the required introductory course, THL 1050 or 1051, which students in all colleges normally take in the first year of studies.

Eighteen credit hours are to be taken from among the following:

- One Course in Biblical Studies: any course numbered from THL 2000 to THL 2480.
- One Course in Historical Studies: any course numbered from THL 2500 to THL 2900.
- Theological Studies: THL 3200: Understanding Jesus the Christ.
- One Course in Studies in Christian Living: any course numbered from
 - o THL 4100 to THL 4690.
- One Course in Religious and Cultural Studies: any course numbered from THL 5100 to THL 5285.
- Advanced Seminar, THL 6500

Twelve credit hours are to be taken from other departmental offerings in consultation with the student's Academic Advisor.

MINOR: Eighteen credit hours inclusive of the required introductory course (THL 1050 or 1051). All courses required for the major are highly recommended for minors.

THL 1050 or 1051 is a prerequisite for all other courses in Theology and Religious Studies.

See the Web site address above for more information.

WRITING AND RHETORIC CONCENTRATION

Director: Dr. Karyn Hollis
Office: 458 St. Augustine Center
Tel. (610) 519-7872
Website: www.villanova.edu/artsci/writingrhetoric/

ACCEPTANCE: Students must have a 3.0 average or better to enroll in the concentration. An entrance essay must be submitted and will be scored in terms of purpose, content, style and organization. A base score must be attained.

The Concentration in Writing and Rhetoric provides students with a programmatic option for developing excellence in writing and speaking skills. The Concentration is open to students from all colleges in all majors.

CONCENTRATION: By the end of the first semester in the Concentration, students will have studied for and passed a self-administered WebCT exam covering principles of Standard Edited English, a style sheet, and other rules of grammar, punctuation and mechanics.

By the end of the student's senior year, a "capstone" portfolio will be submitted to the director representing the range and quality of the student's writing. This portfolio will be in the format of a "clip book" suitable for presentation to potential employers and will contain any published materials the student has written while in the Concentration. A similar E-Portfolio of student work displayed on the Internet is also required.

To successfully complete the Concentration, students must achieve a 3.0 average in their Concentration courses. Students must complete 24 credit hours. All courses are to be writing enriched or writing intensive, including:

- Three courses in Writing Practice at the intermediate or advanced level from the list of approved courses
- Two courses in theory of composition, history of language, rhetorical theory or history and critical theory
- Two writing enriched or writing intensive upper-level English courses

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- One practicum course

MINOR: 18 credit hours in advanced courses, numbered 2000 or above. All courses are to be writing enriched or writing intensive, including:

- Three courses in writing practice from the approved list
- Two courses in theory of composition, rhetorical theory or critical theory
- One writing enriched or writing intensive English literature course at the 2100 level or above.

See the Web site address above for more information.