

COLLEGE OF LIBERAL ARTS AND SCIENCES

Rev. Kail C. Ellis, O.S.A., Ph.D., Dean
Robert DeVos, Ph.D., Associate Dean
John Doody, Ph.D., Associate Dean, Villanova Center for
Liberal Education
Edwin L. Goff, Ph.D., Associate Dean for Honors Program
and Undergraduate Grants and Awards
Catherine M. Hill, Ed.D., Associate Dean
R. Kelman Wieder, Ph.D., Associate Dean for Sciences
Robert Blanchard, B.A., Assistant Dean for External Affairs
Mario J. D'Ignazio, M.Ed., Assistant Dean

Office: **105 Saint Augustine Center**
Phone: **610-519-4600**
Email Associate Deans: artssciences@villanova.edu
Email Dean: asdean@villanova.edu
Website: www.artsci@villanova.edu

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 by 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.

OBJECTIVES

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 MISSION

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 objectives of the Core are to:

- ❑ Achieve a synthesis of knowledge that provides a basis for informed judgment, not simply “fact finding.”
- ❑ Promote literacy as a foundation for intelligent discourse and the articulation of informed views.
- ❑ Advance 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. The educational program does not simply look to the past, but acknowledges that culture is vibrant and continuously redefined.
- ❑ Challenge students to understand that 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
- ❑ Prepare students to become active participants within society, to engage in the process of informed political debate, to discover the impact of new technologies, and to encourage an understanding and appreciation of the diversity of cultures and experiences, a respect for the individual, and the development of a multicultural and international perspective.
- ❑ Encourage personal development in preparing students to regard themselves as citizens living in a democratic society, as belonging to a world community, replete with communal responsibilities.

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 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.

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, or contact: Mr. Mario

D'Ignazio, Assistant Dean, Office of the Dean, 105 St. Augustine Center for the Liberal Arts, and Phone: 610-519-4600.

HEALTH AFFILIATION PROGRAM (www.healthprofessions.villanova.edu)

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 1 or ACT must be taken no later than October of the senior. These programs are not available to transfer students.

HEALTH RELATED SCIENCE PRE-PROFESSIONAL ADVISING

(www.villanova.edu/artsci/healthprofessions)

The Health Related Science Adviser, Dr. John Friede:

- ❑ 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 College of Liberal Arts and Sciences.

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. Students in the Villanova School of Business can pursue the degree Bachelor of Science, Business Honors. 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 towards 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, DC, 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, Room 451 (610/519-4661).

NATIONAL SCHOLARSHIP ADVISEMENT

(www.villanova.edu/artsci/college/academics/uga/)

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 Office of Undergraduate Grants and Awards, and begins as early as an undergraduate student's first year. In recent years, nearly over 135 students have received formal recognition from these various national scholarship programs. Office of Undergraduate Grants and Awards. Ms. Jane Morris, Director, 138 St Augustine Center, 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, 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 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) 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.rotc@sju.edu)

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: Dr. Connie Titone

Office: 302 St. Augustine Center; Tel. (610) 519-4620

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

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.

TEACHER CERTIFICATION SECONDARY EDUCATION PROGRAM

Chair: Dr. Connie Titone

Office: 302 St. Augustine Center; Tel. (610) 519-4620

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

Course Descriptions: www.artsci.villanova.edu/courses/education.html

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 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.

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 | |

- ❑ 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

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

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|---|------------------------|
| Africana Studies | Irish Studies |
| Arab and Islamic Studies | Latin American Studies |
| Augustine in Dialogue with Faith & Culture | Peace and Justice |
| Cognitive Science | Russian Area Studies |
| East Asia Studies | Women's Studies |
| Ethics | Writing and Rhetoric |
| Elementary Education (in conjunction with Rosemont College) | |

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) |
| Chinese | Russian |
| Criminal Justice | Theater |
| Japanese | |

See the Majors, Interdisciplinary Concentration 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: The Villanova Seminar 2 courses
- 2) College Ethics 1 course
- 3) Fine Arts..... 1 course
- 4) Foreign Language..... 2 courses
- 5) History..... 2 courses
- 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: www.villanova.edu/artsci/college/publications

MATRICULATION

ADVANCED PLACEMENT AND INTERNATIONAL BACCALAUREATE CREDIT

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.

| ADVANCED PLACEMENT 2007-2008 | SCORE OF 3 | | SCORE 4 OR 5 | |
|---|-------------------|------------|--|------------------|
| | COURSES | CR. | COURSES | CR. |
| <i>Subject-Test Number</i> | | | | |
| 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) | PLACEMENT ONLY | | 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 |
| 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 |
| ENVIRONMENTAL SCIENCE – (40) | | BIO 1555 | 4 |
| 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 |
| 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 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.classicalmodernlanglit.villanova.edu/placement/>

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
 - 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

New transfer students from both four year institutions and from two year institutions (community colleges) may seek to transfer credits to the College from two year institutions. However, once a student has been matriculated at Villanova, no credits may be transferred from two year institutions.

Transfer credits (along with AP credit) may be used for no more that 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 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 student to assess course outcomes.

ACADEMIC MENTORING AND ADVISING

ADVISING AND PROFESSIONAL DEVELOPMENT OFFICE

451 St Augustine Center for the Liberal Arts
Nancy Allen, Ph.D., Director
Lynda Capuzzi, Assistant Director
610-519-4661

The College of Liberal Arts and Sciences is the oldest, largest and most selective of Villanova's four undergraduate colleges. At the undergraduate level, the College offers 5 degrees, 23 majors and 14 interdisciplinary concentrations to approximately 3,800 full-time and 150 part-time students. Central to the curriculum for all Liberal Arts and Science students is a 21-course integrated liberal arts core with an emphasis on writing, critical thinking, intellectual sophistication, and cultural understanding that is the hallmark of the College's mission to the liberal arts and sciences.

Each year, the College enrolls about 900 new and first-year students. The College requires all students to declare a major by the end of sophomore year. Most Science students enter with a declared major and are immediately assigned an advisor from the chosen department's faculty.

All Arts students enter undeclared, thus providing options to explore academic possibilities. To properly mentor and advise these students is a complex and challenging task. Consequently, the College has defined a two-phase system of mentoring and academic advising to meet Arts students' needs.

For undeclared freshman and sophomore Arts students, the first phase of mentoring and academic advising is provided through the Advising and Professional Development Office located on the fourth floor of the St. Augustine Center for the Liberal Arts. To support an intensive system of academic mentoring, the Office provides technical and qualitative training for all faculty mentors. Committed faculty implement a comprehensive program that assists students in defining academic, career, and personal goals, with an emphasis on integrity and responsibility.

Developing an appropriate academic plan to insure degree progress is a core enterprise of the Office. Unlike the curriculum of Villanova's professional schools, the initial three-semester curriculum for Arts students involves choices in course selection whereby they can explore and individualize coursework so as to clarify their academic and career goals. Furthermore, faculty and staff members of the Office engage students as early as possible in thoughtful discussions about academic and other opportunities, such as interdisciplinary concentrations, internships, service learning courses, and study abroad. Clearly, this requires significant knowledge, skill, and sophistication on the part of faculty mentors. Hence, the College commits significant resources to faculty and student mentor training.

The cadre of 40 well-trained faculty mentors are also able to provide students with informed access to the vast array of University services, such as the College's Math Learning Resource Center, the Writing Center, language tutors made available by the Department of Modern and Classical Languages, as well as the University's Center for Learning Support, Career Services Center, Counseling Center, and Campus Ministry.

For the benefit of students' academic and personal growth, the Office's directors and other staff members promote working linkages with the Director of Internships; College advisors for Health Professions, Law, and MBA; and the College Director of

Undergraduate Grants and Awards. To support the career choice discussions, the Office staff, in collaboration with Career Services and other University offices, provides workshops and services tailored specifically for Arts and Science students. For example, students may need structured assistance in career preference testing, career attainment strategies, time management, interviewing skills, and résumé development.

The second phase of the College's program for Arts students occurs once the student selects an academic major. At that time, the chosen department assigns a faculty advisor who will guide the student in completion of requirements for the major. The discussions and planning begun at the mentoring level continue, and goals and plans are refined as the student approaches graduation. Departmental faculty advisors have access to training provided by the Office; they are also able to provide expert advice to students in their chosen disciplines.

For many Arts and Science students, their career path does not lead immediately to the market place; rather, many choose to pursue advanced degrees within or outside of their major areas of study. To this end, the members of the College's various academic departments provide direction, advice, and resources aimed at helping students make appropriate choices involving graduate education. Plus, the Director of Undergraduate Grants and Awards provides services and support to prepare students to compete for the most prestigious graduate scholarships and fellowships such as Marshall, Gates, Fulbright, and Rhodes scholarships.

Beginning in the summer, incoming students are introduced to the College's comprehensive mentoring and advising system via telephone contact by their assigned faculty mentor. The principal motive for this contact is to initiate what will become a personal relationship between student and mentor before the student arrives on campus.

It is incumbent upon students to get to know their faculty mentor. He or she can help students adjust to university life or at least point them in the right direction. Students should consult with their mentor *at least* once a semester during pre-registration to ensure proper course selection and advancement in the academic program. The mentor can be of assistance in sorting out major/minor and graduation requirements at pre-registration time, although these are things that the student should come to master. A student's mentor and academic advisor may be called upon for assistance in making decisions, but *it is ultimately the student's responsibility to understand the requirements of the chosen degree program and to plan for the orderly fulfillment of graduation requirements.*

While the best advisee/advisor relationships are long term, students facing difficulties in an advisement relationship may request a change. The new advisor must come from within the College advising pool. If the change is acceptable to the proposed new advisor (and chairperson in the case of a student with a declared major), then the relationship is made official by changing the student's record on the University student record system.

The dean, associate, and assistant deans also are available to assist students. If students have an academic or personal concern which they do not feel comfortable discussing with their assigned advisor, then they can make an appointment to speak with one of these individuals. Requests for leaves of absence and other extraordinary actions must be submitted in writing and approved by a dean.

NATIONAL SCHOLARSHIP ADVISEMENT

Office of Undergraduate Grants and Awards
Ms. Jane Morris, Director

138 St Augustine Center for the Liberal Arts
610-519-5928
www.villanova.edu/arts/college/academics/uga/

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
www.villanova.edu/arts/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. Dr. Graziano is available to consult with students concerning the law school admission process.

MASTER OF BUSINESS ADMINISTRATION (MBA) ADVISOR

Dr. Charles Cherry
464 St Augustine Center
610-519-6957
www.villanova.edu/arts/college/advising/development/prebusiness.htm

A Master in Business Administration (MBA) is a career path seen as valuable by many liberal arts students interested in business. According to the Stanford Graduate School of Business (best MBA Program, 2003 *U.S. News & World Report*), students should choose an undergraduate major that they find interesting and engaging. Many MBA students come from pure liberal arts backgrounds, majoring in everything from Political Science to Philosophy and Religious Studies. While applicants are not required to take business courses before entering an MBA program, most business curricula assume a solid foundation in quantitative skills. The other skills required for success in an MBA program are precisely those provided by a strong liberal arts background. Dr. Charles Cherry is available to consult with students considering an MBA and a career in business.

INTERNSHIPS

Ms. Rina Ebert
415 St Augustine Center
610-519-4232
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 all such experiences and all students may not be able to earn academic credit.

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. In addition only students with a minimum 3.0 GPA (2.75summer) are eligible to participate in the program **No credit will be awarded for an internship experience that has not received prior approval.** Details are available from the Director in 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 have 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 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.

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 Science will not be able to seek transfer credit for courses taken at two year (community college) institutions.

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.

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 (with the exception of the majors in General Arts and Human Services) 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.

Students with a GPA of 3.0 or higher in the Arts division of the College or in Mathematics will be allowed to take a sixth course up to 19 credits hours per semester. No paperwork is required. However, such students will only be allowed to register for 17 credits during the initial pre-registration period. After all students have had the opportunity to register for five courses, credit limits will be raised by the Registrar, and students with a GPA of 3.0 or higher will be allowed to register for a sixth course through NOVASIS using their semester PIN.

Students taking Japanese, Chinese, Arabic, or Russian to fulfill their language requirement and students in Military Science, Naval Science, Aerospace Studies or Education with a *GPA lower than 3.0* may have to enroll for more than 15 credits in a given semester and therefore need to have their credit limit raised prior to registering online. In both 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.

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 Office. 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 Office, 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 does not hold its own graduation ceremony. However, immediately after the University ceremony, each academic department holds a reception at a location listed in the University Graduation Program, at which time diplomas are distributed. There is an opportunity for pictures to be taken at this time.

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 envelope at the departmental reception 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 Science undergraduate students is limited to sophomores, juniors, and seniors with a GPA of 2.75 and above.

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 12 credits 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*. Transfer students to Villanova are required to have completed three semesters on campus before leaving for overseas studies.

Courses will generally 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) are considered for transfer only if the courses were taken prior to matriculation at Villanova.

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 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. Students seeking to transfer from the Colleges of Engineering, Nursing, and the Villanova School of Business into the College of Liberal Arts and Sciences must do so in writing by completing the form, *Application to Enter the College Of Liberal Arts and Sciences*, available in the Office of the Dean, 105 St. Augustine Center

Students seeking to transfer from the Part-time Studies Division must do so in writing by completing the form *Application to Enter the College of Liberal Arts and Sciences from the Part Time Studies Division* available in the Dean's Office. Students seeking to transfer from the Part-time Studies Division will be considered for admission if they have completed a minimum of eight courses of three credits or more with a grade of "C" or better; and have a grade point average (gpa) of at least 3.0 at the time of application. Students intending to transfer more than fifteen courses must apply to and be accepted into a major before matriculating.

Grades for Arts and Sciences course taken while the student was enrolled in another college at the University and which have been deleted from the computation of the student's GPA while there will be reinstated upon transfer to the College of Liberal Arts and Sciences. The Arts and Sciences grades and credits earned will be computed in the student's Liberal Arts and Sciences GPA and will be used to determine the student's academic standing in the College. Only a maximum of four Distance Learning courses and a maximum of four Fast Forward courses may be applied to a student's degree.

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> |
| Core Humanities Seminar* | Core Humanities Seminar* |
| 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> |
| Core Humanities Seminar* | Core Humanities Seminar* |
| 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 |
| | |
| 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

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 website address above for more information.

AFRICANA STUDIES CONCENTRATION

Director: Dr. Crystal J. Lucky
Office: 461 St. Augustine Center for the Liberal Arts
Tel. (610) 519-7824
Website: 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 twenty one 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, St. Augustine Center Rm.461.

See the website address above for more information.

ARAB AND ISLAMIC STUDIES CONCENTRATION

Director: Dr. Maghan Keita
Office: 443 St. Augustine Center for the Liberal Arts
Tel. (610) 519-4640
Website: www.villanova.edu/artsci/arabislamic/

CONCENTRATION: The Arab and Islamic Studies Concentration requires 10 courses only one of which is an elective; and includes four courses of Arabic language.

MINOR: The Arab and Islamic Studies Africana Minor requires seven courses including two Arabic language courses and two electives.

The list of approved electives is available from the Arabic and Islamic Studies Office Studies office, St. Augustine C Rm.443

See the website address above for more information.

ART HISTORY

Chair: Dr. Marc Gallicchio, Chairperson
Office: 403 St. Augustine Center
Tel. (610) 519-4660
Website: www.villanova.edu/artsci/history/undergrad/arthistory/
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 ten courses which include a required introductory core of four courses

- AAH 1101 History of Western Art, Ancient to Medieval
- AAH 1102 Renaissance to Contemporary World
- AAH 2000 Ancient Art
- AAH 2001 Early Christian and Medieval Art
- One Renaissance/Baroque course; one Modern Art Course; one Studio Art Course and two upper level required course, and one elective..:

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 website address above for more information.

ASTRONOMY AND ASTROPHYSICS

Chair: Dr. George P. McCook
Office: 457 Mendel
Tel. (610) 519-4820
Website: <http://www.villanova.edu/artsci/astronomy/>
Course descriptions: www.artsci.villanova.edu/courses/astronomy.html

MAJOR: AST 2120, 2121, 2122, 2133, 2134, 3141, 3142, 3152, 3162, 4121, 4122; MET 2001; CSC 4630; MAT 1500, 1505, 2500, 2705; PHY 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2601, 2603, 4100, 4200, and 3 Physics courses (9-12 credits) numbered above 3000. Recommended are PHY 4000, 5100, 5200

MINOR: 22 credits, including

- PHY 1100 and PHY 1102 (Biology Physics), or PHY 2400 and PHY 2402, or above.
- Two Semesters of Calculus, MAT 1310, Mat 1315 or above: AST 2120, AST 2121, AST 2122,
- Two Courses from; AST 2133, AST 2134, AST 3141, AST 3142, AST 3152, AST 3162, MET 2001 (Check with instructor for possible prerequisite.)

See the website address above for more information.

CONCENTRATION: AUGUSTINE IN DIALOGUE WITH FAITH AND CULTURE

Chair: Dr. Thomas W. Smith
Office: 304 St. Augustine Center
Tel. (610) 519-7300
Website: www.artsci.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 website address above for more information.

BIOCHEMISTRY

Program Director: Dr. Barry S. Selinsky
Office: 216F Mendel Hall
Tel. (610) 519-4840
Website: www.villanova.edu/artsci/chemistry/undergrad/biochemistry/
Course descriptions: www.villanova.edu/artsci/chemistry/courses/undergrad.htm

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).

See the website address above for more information.

BIOLOGY

Chair: Dr. Russell M. Gardner
Office: 147 Mendel
Tel. (610) 519-4830
Website: www.villanova.edu/artsci/biology/
Course descriptions: www.artsci.villanova.edu/courses/biology.html

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 website address above for more information.

BUSINESS MINOR

School: Villanova School of Business (VSB)
Dean: James M. Danko
Tel. (610) 519-4330
Location: 1045 Bartley Hall (Dean's Office)

Students enrolled in the College of Liberal Arts and Sciences may seek a general business minor upon application to, and approval by, the Dean of the Villanova School of Business. Acceptance is competitive and based on review of original credentials and current cumulative G.P.A.

Course Sequence Requirements for the Minor:

1* MAT 1230/1235..... Introductory Statistics I & II

NOTE: Students who complete a calculus course such as MAT 1310 or 1315, MAT 1320 or 1325, MAT 1330 or 1335, MAT 1500 or 1505, may substitute DIT 2010 for the statistics requirement. DIT 2010 is waived for Math major.

2* ECO 1001/1002.....Principles of Economics I & II

3* For other course requirements students, students accepted into the Business Minor will be advised by Associate Dean Melinda German Room 1045 Bartley Hall.

Please note Business Minors are required to have a laptop computer with a configuration specified by the Villanova School of Business. Information concerning this requirement may be obtained from the Computer Support Center, Vasey Hall, Room No. 101 (610-519-6646). Since laptops in the Villanova School of Business laptop computer program are updated every two years, students are encouraged to delay their business courses to the last two years of study to take full advantage of laptop usage. Advising for Business Minor students is available in the Office of the Dean of the Villanova School of Business, Bartley Hall 1045.

CHEMISTRY

Chair: Dr. Wm. Scott Kassel
Office: 215 Mendel Hall
Tel. (610) 519-4840
Website: www.villanova.edu/artsci/chemistry
Course descriptions: www.villanova.edu/artsci/chemistry/courses/undergrad.htm

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/artsci/chemistry/undergrad/minor.htm 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 website address above for more information.

CLASSICAL STUDIES

Chair: Dr. Thomas W. Smith

Program Coordinator: Dr. John Hunt (graduate);
Charles Muskiet (undergraduate)
Office: 304 St. Augustine Center
Tel. (610) 519-4678
Website: TBA
Course descriptions: TBA

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 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 for double majors.

See the website 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 intelligent systems emphasizing the perspectives of psychology, computer science, philosophy, and biology. 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 Two 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 website address above for more information.

COMMUNICATION

Chair: Dr. Bryan Crable
Office: 203 St. Augustine Center
Tel. (610) 519-4750
Website: www.communication.villanova.edu
Course descriptions: www.artsci.villanova.edu/courses/communication.html

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 2006-2008 ONLY): Thirty Communication Credit Hours are required; COM 5000, Communication Research should be taken in the Junior year prior to taking Com 5050, Senior Project.

After enrolling in the required prerequisites, COM 1000 and COM 1100 and declaring the Communication major, students will consult their academic advisers and choose one of three areas of emphasis: Rhetoric & Performance Studies, Media & Film Studies, and Interpersonal & Organizational Studies. They will take three courses in the area of emphasis, one course in each of the other two areas, and one additional course in an area of their choice to complete the major. A complete listing of courses divided by area of emphasis is available in the Communication office. Communication majors (classes of 2006-08 only) who choose internships may use three credits to satisfy major requirements. If more internship credits are taken, they must be free electives.

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 Arts & 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 website address above for more information.

COMPREHENSIVE SCIENCE

Director: Dr. Frederick Hartmann
Office: 447 St. Augustine Center
Tel. (610) 519-4232
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 concentrations selected by the student.

The following courses are required of Comprehensive Science majors:

CSC 1051, BIO 2105, 2106,,CHM 1151, 1152,with Labs
CHM 1103/1104 ith Labs,MAT 1500/1505/2500 ,PHY 2410/2411,& Lab
PHY 2412/2413 & Lab or PHY 2414/2413 and Lab
One Mathematics either MAT 2705 or MAT 4310

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
Mathematics
Pre Medical
Physics

Geography
Meteorology
Pre Optical
Pre Dental

See the website 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 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 website address above for more information.

CRIMINAL JUSTICE

Director: Dr. William Waegel
Office: 204 St. Augustine Center
Tel. (610) 519-4740
Website: www.villanova.edu/artsci/sociology/undergrad/criminaljustice.htm

ACCEPTANCE: To be accepted as a Criminal Justice major applying students must have completed 30 credit hours and CRJ 1000.

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.

MAJOR: Requires 11 courses; an eight course proscribed core and three electives.

MINOR (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 website address above for more information.

EAST ASIA STUDIES CONCENTRATION

Director: Dr. A. Maria Toyoda
Office: 268 St. Augustine Center
Tel. (610) 519-5969
Website: 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 website address above for more information.

ECONOMICS

Chair: Dr. Wen Mao
 Office: 2015 Bartley
 Tel. (610) 519-4370

Website:
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 1330 or equivalent) 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, 2137 (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 1330 or equivalent), and complete a total of 18 credits consisting of ECO 1001, 1002, 2101, 2102, and 2 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 website address above for more information.

EDUCATION, SECONDARY

Chair: Dr. Connie Titone
 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 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 website 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

See the website address above for more information.

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.

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 website address above for more information.

ENVIRONMENTAL SCIENCE

Chair: Dr. Frank Galgano
Chair, Dept of Geography and the Environment
Office: Mendel G-67-A
Website: www.villanova.edu/artsci/geoenv
Concentration: Dr. John Olson, Director
Website: www.artsci.villanova.edu/envstuds

The Bachelor of Science Environmental Science major, the Bachelor of Arts Environmental Studies major; and the Environmental Studies Concentration are academic programs administered by the Department of Geography and the Environment.

Bachelor of Science, Environmental Science major: 133 credit hours

· See website: www.villanova.edu/artsci/geoenv

Bachelor of Arts, Environmental Studies major: 124 credit Hours

· See website: www.villanova.edu/artsci/geoenv

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

Category A-REQUIRED,

Students take all of the courses in including ENV/GES 1050, ENV/GES 1051, ENV/GES 4000, PHI 2121, an independent study course (internship or senior thesis or independent /group project) in 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

Category C-POLICY AND MANAGEMENT

Category D-ENVIRONMENTAL SOCIAL SCIENCES & HUMANITIES

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 website address above for more information.

ETHICS CONCENTRATION

Director: Dr. Mark Doorley
Office: 485 St. Augustine Center
Tel. (610) 519-4692
Fax. (610) 519-8026
Website: www.ethics.villanova.edu
Course descriptions: www.artsci.villanova.edu/courses/ethics

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.

See the website address above for more information.

FRENCH AND FRANCOPHONE STUDIES

Chair: Dr. Mercedes Julia
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.html

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 website address above for more information.

GEOGRAPHY

Chair: Dr. Frank Galgano, Chair, Dept of Geography and the Environment
Office: Mendel G-67-A
Website: www.villanova.edu/artsci/geoenv/
Program Director: Dr. J. Harold Leaman
Tel. (610) 519-4710
Course descriptions: www.artsci.villanova.edu/courses/geography.html

The Geography major is an academic program of the Department of Geography and the Environment. The geography major focuses on the interaction of human and physical environments within a spatial context. 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. Students are encouraged to explore closely related academic fields and interests.

MAJOR: At least 24 credits in geography. The distribution of these credits is: GEO 1000 introductory courses (6 credits); GEO 3000 regional courses (3 credits); GEO 4000 techniques courses (3 credits); GEO 6000 seminar and independent study courses (3 credits); and 9 credits for any combination remaining of the 1000, 2000, 3000, 4000, 5000, and 6000 series courses.

MINOR: Requirements are: GEO 1000 introductory courses (3 credits); GEO 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.

See the website address above for more information.

GERMAN

Chair: Dr. Mercedes Julia
Program Coordinator: Dr. Charles Helmetag
Office: 303 St. Augustine Center
Tel. (610) 519-7794
Website: www.classicalmodernlanglit.villanova.edu/german
Course descriptions: www.artsci.villanova.edu/courses/german.html

MAJOR: Majors in German are required to take ten courses above (1122) 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). The research seminar ML 2100 is required of all majors in German.

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.

See the website 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.html

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 website 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.html

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. Students in the Villanova School of Business can pursue the degree Bachelor of Science, Business Honors. 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.

Bachelor of Arts, Honors. Degree: Twelve Honors courses, including

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

NOTE: 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.

Bachelor of Science, Honors. 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.

Bachelor of Science, Business Honors Degree: twelve Honors courses, at least six of which must be VSB Honors courses, including

- a six credit Honors Senior Thesis project:
- HON 3301 or HON 6000; and HON 6002.
- At least 4 Honors courses selected from an approved list of business Honors courses.

Honors Program Sequence (Concentration) in Liberal Studies: eight courses in Honors, at least three of which must be upper level.

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, Science and Business requirements and electives.

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

See the website address above for more information.

HUMANITIES

Chair: Dr. Thomas W. Smith
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 website address above for more information.

HUMAN SERVICES

Chair: Dr. Connie Titone
Office: 302 St. Augustine Center
Tel. (610) 519-4620
Website: www.villanova.edu/artsci/education/
Course descriptions: www.artsci.villanova.edu/courses/education.html

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 website 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 website address above for more information.

ITALIAN

Chair: Dr. Mercedes Julia
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.html

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 website address above for more information.

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 from various disciplinary and thematic Categories.

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 four additional courses

Some requirements can be met through the Villanova Summer Program in Valparaiso, Chile; or through VU's partner (CIDH: International Center for Sustainable Human Development) in Costa Rica.

See the website 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.html

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, e.g. 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: Maj. Keith Karbel, US Army Reserve
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 website address above for more information.

MODERN LANGUAGES AND LITERATURES

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

MAJORS: Majors in **French and Francophone Studies, German, 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, German, 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 website address above for more information.

NAVAL SCIENCE PROGRAM AND MINOR (NAVY ROTC)

Chair: Col. Glenn L. Wagner, 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 website address above for more information.

PEACE AND JUSTICE CONCENTRATION

Director: Dr. William Werpehowski
Office: Ground Floor, Sullivan
Tel. (610) 519-4499
Website: www.peaceandjustice.villanova.edu/
Course descriptions: www.artsci.villanova.edu/courses/pj.html

CONCENTRATION: Twenty-four, including all requirements for the minor, (either PJ 1100 Introduction to Peace and Justice or PJ 2600 Catholic Social Teaching or PJ 5300 Race, Class and Gender) plus two additional Peace and Justice courses, courses cross-listed by Peace and Justice, or courses otherwise earning Peace and Justice credit.

MINOR: Eighteen credit hours, including either PJ 1100 Introduction to Peace and Justice or PJ 2600 Catholic Social Teaching or PJ 5300 Race, Class and Gender; and five other courses in Peace and Justice, courses cross-listed by Peace and Justice, or courses otherwise fulfilling Peace and Justice criteria.

See the website address 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.html

ADMISSION REQUIREMENT: PHL 1050

MAJOR: In addition to fulfilling the College Core Requirement in Philosophy (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.

- Three courses in the History of Philosophy sequence:
- Two capstone courses in one of the approved combinations with either a Thesis Path or a Course Track path
- Four additional upper-division electives

MINOR: 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 website 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.html

Bachelor Of Science, MAJOR Requirements::

PHY 2410, PHY 2411-Lab, PHY 2412., PHY 2413-Lab, PHY 2414, PHY 2415-Lab, PHY 2416, PHY 2417-Lab, PHY 2601-Lab,,PHY 2603- Lab,PHY 3310, PHY 3311-Lab, PHY 4000,PHY 4001- Lab, PHY 4002, PHY 4003--Lab

PHY 4100, PHY 4102, PHY 4200, PHY 4202, PHY 4301, PHY 5100
PHY 5200, PHY 5300, CHM 1103, CHM 1151, CHM 1152, MAT 1500, MAT 1505,
MAT 2500, MAT 2705

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.

Bachelor of Arts, MAJOR Requirements:

PHY 2410, PHY 2411, PHY 2412, PHY 2413 Lab, PHY 2414, PHY 2415-Lab,
PHY 2416, PHY 2417-Lab, PHY 2601-Lab, PHY 2603-Lab, PHY 3310, PHY
3311, PHY 4000, PHY 4001-Lab, PHY 4100, PHY 4200, PHY 4301, PHY 4303, PHY
5100, CHM 1103-Lab I, CHM 1151, CHM 1152, MAT 1500, MAT 1505, MAT 2500,
MAT 2705.

In addition, BA majors must complete two courses in Humanities Seminar, three Social Sciences Electives, and ten Humanities Electives (which must satisfy the core requirements of the College of Arts & Sciences), plus, complete four courses in a minor, concentration, or technical elective with the Chairperson's approval.

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 website address above for more information.

POLITICAL SCIENCE

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

MAJOR: Thirty credit hours in political science courses are required for a major including the two introductory courses PSC 1100 and 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
- 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.

Political science majors are encouraged but not required to take two economics courses, more than the minimum number of courses in languages, at least one geography course, and the two introductory statistics courses to complete their core math requirement (MAT 1230 and MAT 1235).

CONCENTRATIONS WITHIN THE MAJOR: A political science major may choose to earn one or more *concentrations* within political science. Each concentration consists of nine credits in Political Science beyond the thirty credits required for the major. A course taken to fulfill the area distribution within the major will not be recorded as fulfilling a concentration requirement. Furthermore, credits earned for internships and transferred courses will not count toward a concentration. They do count for the area distribution within the major. There are five concentrations: Pre-Law, Public Administration, Political Theory, International Studies and National Security Studies. Students earning a concentration receive a certificate. The title of the concentration does not appear on the student's transcript.

MINOR: Fifteen credits consisting of the two introductory courses, PSC 1100 and PSC 1200, plus any three advanced courses numbered PSC 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 website 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.html

ACCEPTANCE: To choose psychology as a major, a student must have completed General Psychology, (PSY 1000 or HON 1811) with a grade of C+ or higher; or have AP credit for General Psychology. If the grade in General Psychology is less than a C+, an overall QPA of 3.00 or higher may be substituted. 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.

MAJOR: PSY 1000 General Psychology plus 28 additional credits including PSY 4000 Statistics, 4050 Research Methods, 4100 Foundations of Modern 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 website address above for more information.

RUSSIAN AREA STUDIES CONCENTRATION

Director: Dr. Jeffrey Hahn
Office: 264 St. Augustine Center
Tel. 610/519-4735
Website: 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 Moscow State University (both have an exchange agreement with Villanova), or at another approved 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 website address above for more information.

SOCIOLOGY

Chair: Dr. Thomas Arvanites
Office: 204 St. Augustine Center
Tel. (610) 519-4740
Website: www.villanova.edu/artsci/sociology/
Course descriptions: www.artsci.villanova.edu/courses/sociology.html

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.

MAJOR: The Sociology major requires completion of 10 courses. Four courses are required of all majors, while the remaining six are selected by students on the basis of their interests or career aspirations. Introduction to Sociology (Soc 1000) is required of all majors and is the first course that students should take. In addition, 3 courses are required in the theory-methods area (5000 level courses). There are 3 sociological theory course offerings (Soc. 5000, 5050, and 5100) and 3 research methods course offerings (Soc. 5200, 5300, and 5400). Students can take 2 courses from one group and 1 course from the other group or take Soc. 6500 (Senior Seminar) as their 2nd theory or 2nd methods.

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 website address above for more information.

SPANISH

Chair: Dr. Mercedes Julia
Program Coordinator: Dr. Carmen Peraita
Office: 303 St. Augustine Center
Tel. (610) 519-7831
Website: www.classicalmodernlanglit.villanova.edu/spanish
Course descriptions: www.artsci.villanova.edu/courses/spanish.html

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 website 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.html

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

See the website address above for more information.

THEATRE MINOR

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

Office: 205 St. Augustine Center
Tel. (610) 519-4760

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

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

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 website address above for more information.

THEOLOGY AND RELIGIOUS STUDIES

Chair: Dr. Bernard Prusak,

Office: 107 St. Augustine Center
Tel. 610/519-4730

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

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

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 website address above for more information.

WOMEN'S STUDIES CONCENTRATION

CO-Directors: Drs. Catherine Kerrison and Lisa Sewell
Office: Rm 206-D Old Falvey
Tel. (610) 519-4675 and 4646
Website: www.villanova.edu/arts/womensstudies/

The Women's Studies Program is an interdisciplinary program providing courses, a concentration and in Women's Studies. It is open to students in all degree programs. Please check the website for current course offerings, as courses vary each semester.

CONCENTRATION: An Integrating Seminar (WS 5000, topics vary), which is offered every spring.; and seven additional courses of, which at least three must be from the following list: WS 2050, WS 3000, AAH 3001, COM 3406, COM 3341, ENG 2300, HIS 2296, HIS 3360, NUR 4800, PHI 2425, PJ 5300, PSC 2700, PSY 3000, SOC 2300, SOC 3500, THL 5850 *Topics – WS Director can approve other courses offered by departments. (Please see Master Schedule)*

MINOR: Integrating Seminar and five additional courses, of which at least two must be from those listed below. The Integrating Seminar is required of all students and is offered every spring.

See the website address above for more information.

WRITING AND RHETORIC CONCENTRATION

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

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 such as that of the Associated Press, 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.

To successfully complete the Concentration, students must achieve a 3.0 average in their Concentration courses. Students must complete 24 credit hours comprising 8 courses. 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
- One practicum course

MINOR: Students must complete 18 credit hours comprising 6 advanced courses, numbered 2000 or above. All courses are to be Writing Enriched or Writing Intensive. 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 website for list of approved courses and additional requirements.

See the website address above for more information.