

College of Liberal Arts and Sciences

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

THE INSTRUCTION OF BEGINNERS 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 sixteenth-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 thirteen 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 twenty-four, and 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.

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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 fifty years of its existence, the College concentrated exclusively on the liberal arts, it nevertheless remained open to the changes in the curriculum which were required to meet the needs of the time and the demands for specialization. Responding to the demands of the medical profession for new requirements, for example, the College inaugurated its Sciences unit in 1915, and established as the standard premedical course, a four-year program leading to a Bachelor of Science degree in Biology.

Today, the College continues to offer a variety of educational programs which 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 will be 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 in its students, 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 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 which provide its 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 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 judgement, 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, and as therefore having communal responsibilities.

Mission to its Students Faculty and Staff

The College strongly adheres to the principles of the University Mission Statement which 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 judgements, and to develop a religious, moral, and social sense (*Pastoral Constitution on the Church in the Modern World*, 59).

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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 Statement. 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 Statement, 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 which makes open discussion and inquiry possible. It believes that 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, himself 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 which 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 will seek to ensure the best applicant pool possible. It will strive to retain students by offering excellent academic programs and by providing them with quality campus activities.

Degrees Offered

The College of Liberal Arts and Sciences offers the Bachelor of Arts degree in Art History, Classical Studies, Communication, Economics, English, French, Liberal Arts, Geography, German, History, Honors Program, Human Services, Philosophy, Political Science, Psychology, Sociology, Spanish, and Theology and Religious Studies.

A Bachelor of Science degree is offered in Astronomy and Astrophysics, Biology, Chemistry, Comprehensive Science, Computer Science, Secondary Education, Honors Program, Information Science, Mathematics, and Physics. The chemistry program is accredited by the American Chemical Society and the computer science program is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board, a specialized accreditation body.

The requirements for degrees in these majors may be found under the departmental listings contained in this *Catalog*. Students must earn an overall 2.0 grade point average. See the section on Minors, Concentrations, and Certificates for additional information related to degree programs.

The College of Liberal Arts and Sciences also offers minors in most of the fields listed above. In addition the College offers minors, concentrations, or certificates in the following fields: Africana Studies, Arab and Islamic Studies, Cognitive Science, Criminal Justice, Ethics, Irish Studies, Latin American Studies, Military Science, Peace and Justice, Russian Area Studies, and Women's Studies. The requirements for these programs are listed with the departmental programs.

Baccal aureate Degree Requirements

The requirements for a Bachelor of Arts or a Bachelor of Science degree are:

- ✍ A minimum of 40 courses and 2 labs (science degrees vary according to major), which includes the successful completion of the Core Curriculum (general core requirements and distribution requirements), an academic major, and electives.
- ✍ A minimum of 122 credits (science degrees vary according to major).
- ✍ A minimum grade point average (QPA) of 2.00.
- ✍ Residency requirement: the final 30 credits (senior year), at least half of all courses in one's major, and at least half of the courses required for the degree, must be taken at Villanova University. Students may complement their majors by taking one or more interdisciplinary concentrations, as described below in the section on **AMinors, Concentrations, and Certificates.**

The Core Curriculum

Objectives

The courses in the Core Curriculum treat a broad range of disciplines, using a variety of approaches and different modes of inquiry. At the same time, the Core strives to ensure depth of study and intellectual sophistication. The purpose of the Core is to achieve a synthesis of knowledge that provides a basis for informed judgement. 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,

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a respect for the individual, and the development of a multi-cultural and international perspective. In this way the Core 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.

Core Curriculum General Requirements

All candidates for a baccalaureate degree in the College of Liberal Arts and Sciences must complete the following requirements:

Core Humanities Seminar	2 courses	Mathematics	1 course
College Ethics	1 course	Mathematics/Computer Science	1 course
Fine Arts	1 course	Philosophy	2 courses
Foreign Language	2 courses	Theology and Religious Studies	2 courses
History	2 courses	Social Sciences	3 courses
Literature	2 courses	Natural Science (with lab)	2 courses

In general, once a sequence of courses is begun in a particular discipline, a student may not revert to a lower level course in that same discipline to fulfill a core requirement without prior approval from the Dean's Office. Courses or sections of courses that are approved to fulfill Core requirements are designated as such in the Pre-registration Master Schedule issued at pre-registration each semester. Retroactive approval of a course taken previously for fulfillment of a core requirement is not possible.

Core Humanities Seminar (2 courses): During the first year of study, each student must successfully complete CHS 1000 (Ancient, Medieval and Renaissance Thought) and CHS 1001 (Modern Thought: Enlightenment to the Present)

College Ethics (1 course): Each student (normally during the sophomore year) must successfully complete ETH 2050 (Ethical Traditions and Contemporary Life)

Fine Arts (1 course): Each student is required to take one semester of Fine Arts. Art History, Theatre, studio art courses which have a theoretical basis, and courses in music appreciation and film analysis are examples of courses which will fulfill this requirement. Consult the Master Schedule issued each semester at pre-registration for a list of courses that will fulfill this requirement.

Foreign Language (2 courses): In most cases, each student is required to complete at least two courses in the same foreign language at or above the intermediate level. For most students this requirement will involve a two-semester continuation of a language studied in high school. A student may elect to study a new language, which will entail completing two semesters of the language at the introductory level in addition to satisfying the intermediate level course requirement. In these cases, the two introductory level courses will be counted as electives if that language was *not* studied for two or more years at the high school level.

The language requirement may also be satisfied with two semesters of study at the introductory level for Arabic, Chinese, ancient Greek, Japanese, or Russian.

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International students (for whom English is a second language) may not choose their native language to fulfill the language requirement. Instead, they may take a total of four English courses (ENG 1050 and three literature courses at the 2100 level or above) to fulfill both the literature and foreign language core requirements. *NOTE: The credit value of language courses varies from three to six credits. Regardless of the number of credits, a language course counts for only one course.*

History (2 courses): Each student must successfully complete HIS 1050 and a second History course with a course number of 2000 or higher.

Literature (2 courses): Each student must successfully complete ENG 1050 and a second literature course with a course number of 2100 or higher chosen from the English departmental course offerings or a literature course offered by the Department of Classical and Modern Languages.

Mathematical Sciences/Computing Sciences (2 courses): Students may choose *two courses* in mathematical sciences (MAT) or *one course* in mathematical sciences and *one course* from computing sciences (CSC). All courses for which a student has the appropriate pre-requisites or equivalent experience may be used to satisfy this requirement. Beginning a course in a particular series does not obligate a student to finish that series. For example, a student taking MAT 1320 (Calculus I) is not required to take MAT 1325 (Calculus II). *NOTE: Students majoring in a science or those intending to apply to medical, dental or veterinary school must take two semesters of Calculus. Additional information is available from Dr. Friede, Health Sciences Adviser (610/519-4833). Students anticipating a Business Minor should take Introductory Statistics: Math 1230 and 1235.*

Philosophy (2 courses): Each student must successfully complete PHI 1050 and a second philosophy course with a course number of 2000 or higher.

Theology and Religious Studies (2 courses): Each student must successfully complete THL 1050 and a second Theology and Religious Studies course with a course number of 2000 or higher. The required introductory course, Theology and Religious Studies 1050, is an academic presentation of Christian thought, suitable for any student. It is normally taken during the sophomore year. In special cases, the following courses may be substituted for this course with permission from the Dean: THL 2800; THL 5400; THL 5800; THL 5900

Social Sciences (3 courses): Each student must successfully complete one introductory course in each of two distinct disciplines, and one advanced course (2000 level or above) in one of those two disciplines. The Social Sciences disciplines are: Economics, Geography, Political Science, Psychology, and Sociology.

Natural Sciences (2 courses with 2 labs): Each student must successfully complete, by the end of the sophomore year, two semesters of natural sciences with accompanying laboratories. Each student may choose Option A or Option B as described below:

Natural Sciences Option A: A year-long sequence (two courses with two labs) in one scientific discipline consisting of an introductory course followed by a theme course for which an introductory course is a prerequisite. These courses have been designed for non-science majors. The following sequences may be used to satisfy this option:

- ≅ AST 1050/1051 and AST 1052/1053.
- ≅ AST 1072/1073 and AST 1074/1075.
- ≅ BIO 1505 and BIO 1605, or 1625, or 1655 or 1705. Offerings will vary from year to year.

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- ✗ CHM 1021/1001 and CHM 1022/1002.
- ✗ CHM 1050/1001 and CHM 1051/1002, or 1052/1001, or 1053/1002 or 1054/1002.
- ✗ PHY 1010/1011 and PHY 1012/1013.
- ✗ PHY 1020/1021 and PHY 1022/1023.

Natural Sciences Option B - A year-long sequence (two courses with labs) in one scientific discipline. These courses are generally taken by science majors. The following course sequences satisfy this option:

- ✗ AST 2121/2133 and AST 2122/2134.
- ✗ BIO 2105 and BIO 2106.
- ✗ CHM 1131/1103 and CHM 1134/1108.
- ✗ CHM 1151/1103 and CHM 1152/1104.
- ✗ PHY 2410/2411 and PHY 2412/2413.

Core Curriculum Distribution Requirements

In addition to satisfying the curricular requirements listed above, students are required to satisfy certain distribution requirements. The distribution requirements may be satisfied by courses used to satisfy either core, major or elective requirements. Additionally, a single course may satisfy more than one of the distribution requirements.

Writing Requirement (8 courses): Each student must take at least four courses which are designated as *Writing Intensive* and four courses which are designated as *Writing Enriched*. These designations will appear in the Master Schedule available during pre-registration each semester. (Students may also be expected to do extensive writing in courses which are not formally designated as writing enriched or writing intensive.)

The Core Humanities Seminars (1000 and 1001) and the Introductory Literature course (ENG 1050) fulfill three of the four Writing Intensive course requirements. The fourth Writing Intensive course requirement is to be taken in the student's major area. College Ethics (ETH 2050) fulfills one of the four Writing Enriched requirements.

Integrative Sequences (2 sequences of 2 courses each): Integrative courses enable a student to examine a topic or theme from the perspective of several disciplines. One of these sequences is to be in the humanities and the other is to be in the sciences. The two Core Humanities Seminars fulfill the former and the Natural Science core requirement fulfills the latter.

Diversity Requirement (2 courses): Each student is required to select one course in two of the following three areas:

- ✗ Diversity (1) - courses which provide a focus on studies emphasizing ethnic and minority experiences in the United States.
- ✗ Diversity (2) - courses which provide a focus on women's experiences and highlight the ways in which gender influences experience.
- ✗ Diversity (3) - courses which provide a focus on the culture, economics, politics or ecology of societies and nations other than those of Europe and the United States.

NOTE: 1.) A student may not use a single course to fulfill more than one category of the diversity requirement. 2.) The diversity requirement cannot be fulfilled by independent

study or a senior thesis. 3) Language courses cannot fulfill the requirement, although literature courses in a foreign language can fulfill the requirement provided they focus on appropriate material.

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).

Associate Degrees

Villanova University, through the College of Arts & Sciences, awards the Associate of Arts Degree and the Associate of Science Degree in Natural Science. The Associate Degree Program is designed for students who are not seeking a regular baccalaureate degree, but still wish to follow a specific curriculum. The Associate Program can be completed in half the time it normally takes to complete the baccalaureate program. Students completing the Associate Degree may continue directly toward the completion of the requirements for the baccalaureate degree without any loss of credit or time. Students associated with one of the Affiliation Programs may complete an Associate Degree based on work done at Villanova University.

Associate of Arts Degree

Arts courses (*17 courses*)

College Ethics (ETH 1050)

Core Humanities Seminar I & II (CHS 1000 and 1001)

Fine Arts

Intermediate Language I & II

Introductory History (HIS 1050)

Introductory Literature (ENG 1050)

Introductory Philosophy (PHL 1050)

Introductory Theology/Religious Studies (RST 1050)

Social Science Elective

6 additional courses in any department or program within the College of Arts or Sciences

Mathematics/Science courses (3 courses in at least two science disciplines, with at least one course with a laboratory segment)

Several courses in Mathematics are suitable, as well as any of several year-long Core Science sequences in Biology (and/or Human Anatomy and Physiology I & II), Chemistry, Computer Science, and Physics/Astronomy.

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Sample Curriculum (many possibilities exist)

FIRST YEAR	
<i>First Semester</i> Introductory English Intermediate Language I Mathematics/Science Elective I Introductory Philosophy Core Humanities Seminar I	<i>Second Semester</i> Introductory History Intermediate Language II Mathematics/Science Elective II Introductory Religious Studies Core Humanities Seminar II
SECOND YEAR	
<i>First Semester</i> College Ethics Mathematics/Science Elective III Advanced Elective Advanced Elective Advanced Elective	<i>Second Semester</i> Fine Arts Social Science Elective Advanced Elective Advanced Elective Advanced Elective

Associate of Science Degree in Natural Science

Arts courses (7 courses)

Core Humanities Seminar I
 Introductory History (HIS 1050)
 Introductory Literature (ENG 1050)
 Introductory Philosophy (PHL 1050)
 College Ethics (ETH 1050) or Ethics of Health Care
 Introductory Theology/Religious Studies (RST 1050)
 Social Science Elective

Mathematics/Science courses (9 courses and associated laboratories in at least two departments). Any science course **appropriate for a major in any science department** will count. Suitable courses include year-long sequences in Astronomy (AST), Biology (BIO; including Human Anatomy and Physiology I & II), Chemistry (CHM), Computer Science (CSC), Mathematics (MAT), or Physics (PHY). At least *two courses* must be in Mathematics/Computer Science*.

* Students in Affiliation Programs typically will take at least one semester of Calculus (e.g., MAT 1310 and one semester of Statistics (MAT 1230)

Electives (3 courses)

Any course taken from any department or program within the College of Arts and Sciences.

Sample Curriculum

(many possibilities exist; the schedule and the specific science courses listed represent only one possible scenario)

FIRST YEAR	
<i>First Semester</i> Core Humanities Seminar I Mathematics Elective I Biology 2105 Chemistry 1151/1103	<i>Second Semester</i> Mathematics Elective II Biology 2106 Chemistry 1152/1104 Introductory Religious Studies Introductory Philosophy
SECOND YEAR	
<i>First Semester</i> Science Elective College Ethics Introductory English Social Science Elective PHY 1100/1101	<i>Second Semester</i> Introductory History Elective Elective Elective PHY 1102/1103

Associate Degree programs designed for the special requirements of physical therapy, occupational therapy, cytotechnology, medical technology, dental hygiene, and diagnostic imaging/multi competency are also available. Interested students should contact the College of Liberal Arts and Sciences.

Students wishing to continue for a baccalaureate degree need to take the required courses as stated in the current catalogue for the major into which they enroll.

Business Minor Program

Students in Liberal Arts and Sciences may take courses leading to a business minor. Information on the business minor is available from the College of Commerce and Finance, and the program is described in more detail in the Commerce and Finance section of this *Catalog*. *NOTE: Students in the Business Minor are required to purchase a notebook computer, approved by the College of Commerce and Finance (call 610/519-4334 for more information).*

Elementary Education Certification - Rosemont Colleges

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.

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Interested students must make application to the Office of the Dean through the Director of Liberal Arts, St. Augustine Center, room 451, 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.

Secondary Education Program and Teacher Certification

Villanova University's secondary teacher education program has been approved by the Pennsylvania Department of Education as satisfying the requirements for teacher certification in twelve subject areas. Students who are enrolled in the Bachelor of Science in Education program are also enrolled in the teacher education program. Upon completion of the degree and the National Teachers Examination (NTE) in communication skills, general knowledge, professional knowledge and subject specialization, the student will be eligible for certification.

Students in other departments may be admitted to the teacher education program upon the approval of the Undergraduate Committee. Students admitted to the teacher education program must complete the same requirements as the candidate for the Bachelor of Science in Education, including student teaching.

With the exception of Education 4220, 4281, 4282, 4283, 4284, 4285, 4286, 4291 and 4292, Education courses may be taken as electives by students in other departments of the University.

Students enrolled in the Teacher Education Program will have their work reviewed each semester by a department committee to determine progress and professional development for certification. Students must achieve a 3.0 cumulative average in their teaching specialty and a 3.0 overall before they are permitted to do student teaching. Students who do not achieve the required cumulative average by senior year will not be allowed to continue in their major.

All Education majors will select a Content Area in which to be certified. The specific courses in the Content Area are determined by the Department and the subject area department. Student Teaching is normally taken in the second semester of the senior year.

The core curriculum for Education majors differs in some respects from the normal Arts and Sciences core and interested students should contact the Department of Education and Human Services. Students who possess a bachelors degree and want to pursue Teacher Certification on a part-time or full-time basis should apply through the Office of Part-Time Studies.

Exchange Programs

Villanova University enjoys cooperative exchange arrangements with neighboring Rosemont College and nearby Gratz College, allowing Villanova students the opportunity to take classes at the other schools. Students who participate in the exchange program must possess a cumulative average of 2.75. Superior juniors and seniors in the College of Liberal Arts and Sciences may take courses at Bryn Mawr College on a limited basis. Courses taken at Bryn Mawr must be in the student's field of study and not offered at Villanova. Registration is through the Honors Program Office, St. Augustine Center, Room 103 (610/519-4650).

Honors Program (Dr. Edwin Goff, Director)

The Honors Program is designed to bring together superior students and dedicated faculty in a small college environment of rigorous seminars, flexible requirements, and independent research in order to promote breadth, diversity, and depth throughout the students-academic careers. The Program is open to students in all undergraduate colleges with the approval of the Honors Director. The Program offers the Bachelor of Arts and Bachelor of Science degrees. To qualify for an Honors Program degree, the student must be a full-time participant in the Honors Program, must complete a specified sequence of courses, and must maintain a 3.25 QPA with periodic evaluation and approval by the Honors teaching staff. For students whose course of studies prevents them from pursuing an Honors Program degree, an Honors sequence in Liberal Studies is available, which requires a minimum of eight Honors courses, a 3.25 QPA, and periodic evaluation and approval by the Honors teaching staff. Program details can be found in the [Honors Program](#) section of this *Catalog* and are available in the Honors Program Office, 103 St. Augustine Center (610/519-4650).

Human Services Program

The Bachelor of Arts in Human Services is designed for the student who chooses a liberal arts degree combined with an opportunity to pursue an experiential component geared toward the human services area. The program is for those who want to combine a liberal arts education with expertise in basic communication skills, human resource development, and knowledge of the professional field and are interested in the fields of business. The practicum experience gives the student the opportunity to work in an agency setting pertinent to the chosen specialization. Upon completion of the degree requirements, students will have minors in Psychology and Sociology. The program also prepares the student to pursue graduate level courses in Counseling and Human Relations.

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. Villanova has its own six-week overseas summer programs in Chile, France, Ireland, Italy, Palestine, and Spain open to all Villanova

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students for intensive language or area studies. 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 or contact the Office of International Studies, St. Augustine Center, Room 415, (phone 610/519-6412).

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. The following majors offer this option: Art History, Biology, Chemistry, Communication, Computing Sciences, Comprehensive Sciences, Economics, English, Geography, History, Liberal Arts, Mathematics, Philosophy, Political Science, Psychology, and Sociology (Criminal Justice). 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).

Naval Science

Eligibility for a commission in the U.S. Navy, Naval Reserve, U.S. Marine Corps or Marine Corps Reserve, through the NROTC Program, is contingent upon successful completion of required University and naval professional courses of study. Program details are found in the Naval Science course listings section of this *Catalog*.

Academic Policies and Information

Unless otherwise noted, the College of Liberal Arts and Sciences follows the general academic policies and regulations listed in the University section of this Catalog. *It is the responsibility of the student to know and comply with all academic policies and regulations of the University and of the College of Liberal Arts and Sciences. Such policies may change without prior notice.* Policies specific to the College of Liberal Arts and Sciences follow:

Academic Standing and Academic Probation

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 Committee recommends corrective actions to the Dean that may range from Letters of Concern to Probation to a Dismissal From the College.

Villanova University

Each student deserving corrective action will receive a letter from the Deans' office stating the action taken. While on academic probation, a student's course load may be limited to four courses plus any associated laboratories, *and* the student may not participate in any extracurricular activities. Students may be removed from the Academic Probation List only upon satisfying each of the requirements of the term of probation.

There is no requirement that a student must receive a Letter of Concern or Probation prior to being dismissed from the College of Liberal Arts and Sciences, and possibly from the University. A dismissal from the College may be appealed in writing. Detailed instructions accompany each letter from the Dean.

Advising

Every student in the College of Liberal Arts and Sciences is assigned an academic adviser. Before declaring a major, each student is assigned to a specially trained faculty member who serves as the student's pre-major adviser. After declaration of major, advising is done by faculty in the student's major department.

Closed Sections

Ordinarily, students will not be permitted to enroll in closed sections. Exceptions to this rule can be made only by the appropriate chairperson and only when a student graduating at the end of the current semester must enroll in the specific section in order to complete his or her primary major. If other sections or other courses are available to satisfy the degree requirements, the exception will not be granted.

Dean's List

At the end of each academic year, 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 diligent 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 student in the College of Liberal Arts and Sciences must maintain a minimum semester grade point average of 3.50 in both the fall and the spring semesters of a single academic year. All students included on the list will receive a congratulatory letter from the Dean following the conclusion of the spring semester.

Graduate Courses

A qualified Senior with a cumulative QPA of 3.0 may enroll in a graduate course upon obtaining the written approval of the adviser, the department chairperson of the course involved, and the Dean before submitting the request to the Dean of the Graduate School.

Courses numbered 7000-7999 are graduate courses open to qualified undergraduates. Courses numbered 8000-9999 are graduate courses not ordinarily open to undergraduates.

Medal I ion of Excel lence

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 grade point average 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.

Phi Beta Kappa

Phi Beta Kappa is a 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.

Pre-Professional Health Related Science

Adviser (Dr. John Friede). The Health Related Science Adviser:

- ? 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.

Satisfactory/Unsatisfactory Option

Sophomores, Juniors, and Seniors may take one elective course a semester on a satisfactory/unsatisfactory basis. The satisfactory/unsatisfactory option may not be used for courses that fulfill core, major or minor requirements, but individual departments may offer the major seminar on a satisfactory/unsatisfactory basis.

Scholastic Load

A student must take a minimum of 12 credits a semester to be a full-time student. A normal scholastic load (usually five courses plus labs) is defined by the program of studies set forth in this *Catalog*. Permission to take one other course in excess of the normal load may be obtained with the written approval of the Dean.

In order to qualify for such approval in the College of Liberal Arts and Sciences, a student must demonstrate academic proficiency of a high order as indicated by a 3.5 cumulative average.

Summer School at Villanova

In order to accommodate students wishing to accelerate or enrich their studies, Villanova offers three summer sessions. Courses taken in Villanova Summer School are treated as though they were taken during the year. Prior to enrollment in Villanova Summer School, students in the College of Liberal Arts and Sciences must secure an adviser's signature.

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. In all cases permission to enroll in such courses must be obtained from the student's adviser and from the Dean's Office before enrolling in the course(s).

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. Upon completion of the course it is the student's responsibility to see that an official, sealed transcript is sent to the College of Liberal Arts and Sciences at Villanova.

Transfer 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.

Withdraw from a Course

After the Friday following mid-term break, and up to and including the last day of the semester, students may withdraw from a course without academic penalty and receive the grade of "WX" *only* by permission of the Dean of the College. Students may request an authorized withdrawal 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. Justifiable cause is a reason 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. The proper form for this procedure may be obtained in the Dean's Office, 105 St. Augustine Center.

Sample Degree Programs

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	
<i>Fall Semester</i>	<i>Spring Semester</i>
Core Humanities Seminar*	Core Humanities Seminar*
Introductory Philosophy	Introductory Literature
Social Science	Introductory History
Language	Language
Mathematical/Computing Sciences	Mathematical/Computing Sciences
SECOND YEAR	
<i>Fall Semester</i>	<i>Spring Semester</i>
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	
<i>Fall Semester</i>	<i>Spring Semester</i>
Major	Major
Major	Major

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Advanced Humanities	Advanced Humanities
Elective	Elective
Elective	Elective
FOURTH YEAR	
<i>Fall Semester</i>	<i>Spring Semester</i>
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	
<i>Fall Semester</i>	<i>Spring Semester</i>
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	
<i>Fall Semester</i>	<i>Spring Semester</i>
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	
<i>Fall Semester</i>	<i>Spring Semester</i>
Major Science	Major Science
Major Science	Major Science

College of Liberal Arts and Sciences

Science or Core	Science or Core Requirement
Advanced Humanities	Advanced Humanities
Elective	Elective
FOURTH YEAR	
<i>Fall Semester</i>	<i>Spring Semester</i>
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.