

The CLAS Academic Handbook

2019-2020 Academic Year

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College of Liberal Arts and Sciences

Directory

Adele Lindenmeyr, Ph.D., Dean
Emory Woodard, Ph.D., Dean, Graduate Studies
Crystal J. Lucky, Ph.D., Associate Dean for Baccalaureate Studies
Barry Selinsky, Ph.D., Associate Dean for Research and Faculty Development
Joseph Lennon, Ph.D., Associate Dean for International & Interdisciplinary Studies
Edward Fierros, Ph.D., Associate Dean for Diversity, Equity and Inclusion
Rebecca Rebalsky, Assistant Dean for External and College Relations
Susan Jacobs, M.A., Assistant Dean for Undergraduate Students
Seth Matthew Fishman, Ph.D., Assistant Dean, Curriculum and Assessment
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*Set love as the criterion of all that you say, and whatever you teach, teach in such a way
that the person to whom you speak, by hearing, may believe, by believing hope, and by
hoping love.*

THE INSTRUCTION OF BEGINNERS

St. Augustine

History

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

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

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

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

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

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

Academic Mission

The College of Liberal Arts and Sciences exists to provide an atmosphere of responsible learning to a varied group of students who are called to intellectual, moral, and professional leadership. To fulfill these goals, the College seeks to promote intellectual curiosity and rigor within the university; to instill the fundamentals of critical insight, mature judgment,

and independent thinking; and to awaken in its students a sense of the importance of values and the moral responsibility of caring for others and working for the betterment of society.

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

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

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

Academic Goals

The academic mission of the College is intimately connected with its Core Curriculum. The courses in the Core Curriculum treat a broad range of disciplines from a variety of approaches; at the same time, the Core strives to ensure depth of study and intellectual sophistication while recognizing that learning implies different modes of inquiry. The goals of the Core are to:

- A. Achieve a synthesis of knowledge that provides a basis for informed judgment, not simply "fact finding." This includes learning to think and process information in a critical manner.
- B. Promote literacy as a foundation for intelligent discourse and the articulation of informed views. This goal acknowledges that literacy spans all disciplines, and undergraduates should demonstrate an ability to understand and utilize a wide variety of information (e.g., scientific, quantitative, cross-cultural, etc.) to articulate said views.

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

- D. Acknowledge that our world is vibrant and continuously redefined, not simply a static version of the past. Thus, we challenge students to understand that the present is recognizably formed from past influences. In order to assess the present and arrive at a view of its future, students must be educated to scrutinize and bring into perspective the relationship of the present day with that of the past.

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

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

The College of Liberal Arts and Sciences is committed to sustaining, improving, and monitoring the effectiveness of our academic programs, guided by a comprehensive assessment plan focused on student learning outcomes. Each academic department has developed their own assessment plan for evaluating your learning experience. Please see your department/program chair or contact Dr. Seth Matthew Fishman (Office of the Dean, SAC 105) for more information.

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.

The University's LEARNING GOALS may be found on the Provost's website under '[University Learning Goals](#)'.

Office for Undergraduate Students

explore. experience. evolve.

Directory

Susan Jacobs, M.A., Assistant Dean for Undergraduate Students

SaraBeth Baker, Graduation Certification Specialist

Sofia Bermudez, M.Ed., Assistant Director of Professional Development

Linda Boettcher, M.A., Director of Academic Advising

Andy Bove, M.A., Associate Director of Academic Advising

Charles Francisco, Outreach Specialist

Russell Gardner, Ph.D., Director for Science Advising

Charlotte Holmes, Coordinator for Professional Development

Mary A. Klein, Administrative Assistant, Health Professions Advising

Kathleen Matkowski, Administrative Coordinator

Betty Lee Patch, M.A., Transfer Student Advisor

Charisma Presley-Dougherty, M.S., Retention Manager

Louise Russo, Ph.D., Director of Health Professions Advising
Drew Stackhouse, Assistant Director, Systems Management
Kate Szumanski, M.A., M.S., Director of Professional Development
Jordan Toy, M.S., Director of Student Services
Ann Trail, M.Ed., Health Professions Advisor

Office: 107 St. Augustine Center for the Liberal Arts
Telephone: 610-519-3900
Website: <http://ous.villanova.edu>

Vision

The Office for Undergraduate Students aspires to be at the forefront in student support by continuously improving our services and advising in academics, professional development, and experiential education. We strive to create a welcoming and supportive environment for an increasingly diverse student population. We seek to foster collaborative relationships between University community members to promote student growth in mind, body, and spirit.

Mission

The Office for Undergraduate Students guides and supports students from orientation to graduation as they explore the many experiential possibilities that the College of Liberal Arts and Sciences provides. We empower students to begin a process of self-discovery, providing them with the resources to forge their own educational and professional direction.

The Office for Undergraduate Students collaborates with other University resources, enabling students to realize their full potential personally, educationally, and professionally.

Academic Advising

Linda Boettcher, M.A., Director
Andrew Bove, M.A., Associate Director
107 St. Augustine Center for the Liberal Arts
610-519-3900

Academic Advising provides individual attention and guidance to students as they transition into the University and begin to explore their educational interests. Faculty Advisors encourage students to reflect on their course selections and experiential learning opportunities, enabling them to make informed choices about their educational and professional direction. By connecting students to a wide variety of support services, we seek to promote students' development and to facilitate their success.

Through our first-year *Academic Advising* course, we teach students how to obtain the most from their education. Topics include understanding the value of a liberal arts education and the core requirements, conveying professionalism, assessing and strengthening study skills, learning time management, making informed educational and professional choices, and maintaining student wellness.

Exploratory Science Advising

Russell Gardner, Ph.D., Director of Science Advising
107 St. Augustine Center for the Liberal Arts
610-519-3900

Exploratory-Science affords students who have a genuine interest in the natural sciences, but who are somewhat uncertain as to which discipline to pursue, an opportunity to explore a variety of options during their first year at Villanova University. During their freshman year, students enroll in one or two natural science courses with laboratory and mathematics. The Exploratory-Science option provides students with the opportunity to make a considered and data-based decision as to which discipline they wish to pursue for their four years.

Health Professions Advising

Louis Russo, Ph.D., Director Health Professions Advising
Ann Trail, Advisor
Mary A. Klein, Administrative Assistant
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610-519-4822
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Those students planning to apply to any health professional degree program (Medical, Dental, Physician Assistant, Veterinary, Optometry, Physical Therapy, etc.) should contact the Health Professions Advising Office for information on prerequisite coursework, pre-admittance examinations, experiential opportunities, and application procedures. Information sessions related to career exploration, program specifications, and application preparation are held throughout the academic year to enhance applicant knowledge and application quality.

Internship Program

Kate Szumanski, M.A., M.S., Director of Professional Development
Sofia Bermudez, M.Ed., Assistant Director of Professional Development
Charlotte Holmes, Coordinator of Professional Development
107 St. Augustine Center for the Liberal Arts
610-519-4232

The Internship Program provides resources to students, which include individual professional development one-on-one meetings and brainstorming sessions, professional development workshops, and other special events, to assist students as they explore experiential educational opportunities. Through internships, students refine their career interests, develop their professional skills, network with working professionals, and gain valuable experience in a variety of fields. The Internship Program allows students to earn academic credit toward their major or minor, or earn general elective liberal arts credits. Students are required to submit an internship-for-credit application to seek academic credit for their internship experiences. The application is available on the OUS Web site.

Leadership and Professional Development

Kate Szumanski, M.A., M.S., Director of Professional Development

Sofia Bermudez, M.Ed., Assistant Director of Professional Development
117 St. Augustine Center for the Liberal Arts
610-519-3942

The Professional Development area within OUS offers programming, mentoring support, and courses that enable students to identify their strengths, explore professional and educational options, and develop the skills necessary to prepare them for professional life. Through this process, we empower students to pursue their aspirations. The Professional Development curricular component provides students with a foundation for learning how their academic knowledge and skills transfer into the professional world. Students learn how to create a professional résumé, research careers and industries, identify internships, answer job interview questions, and network with alumni. Additional courses offered to enhance professional growth include the Legal Profession, Professional Communication, Networking for Success, Social Networking, Creativity and Innovation, and Introduction to Professional Writing.

The Bridge Society

Kate Szumanski, Advisor
107 St. Augustine Center for the Liberal Arts
610-519-4232

The BRIDGE Society in the College of Liberal Arts and Sciences is designed to: build relationships among students and alumni in the College of Liberal Arts and Sciences; inspire both student professional development and alumni institutional development; provide a forum for students to gain the experiences necessary to forge their future direction. The BRIDGE Society: provides an opportunity for students to identify with the College, in addition to their major; creates the opportunity for student leadership within the College of Liberal Arts and Sciences; gives Arts & Sciences students the opportunity to explore potential career paths and meet alumni & employers in their fields of interest.

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.

Free electives are courses taken in addition to the Core Requirements and courses within a student's major. Free electives are required for all students in the College of Liberal Arts and Sciences and may include courses of an exploratory nature that students use to pursue their interests, as well as courses that students take to fulfill the requirements of a minor or concentration. Core Requirements may also be counted toward fulfilling a minor or concentration.

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. An essential

component of the Core as well as each major is a focus on writing; within their courses of study students take a number of courses in which writing requirements play a central role, from the Foundation Courses (especially the Augustine and Culture Seminars) and the Core Ethics course to the Core Literature and Writing Seminar and courses within each major. These major courses include a Research Requirement course, which is normally taken during junior or sophomore years, and a Senior Capstone course, which is a significant culminating experience that leads students to reflect on the various components of their major curriculum. (The particular courses that fulfill these requirements are determined by each academic major; students should contact individual departments or visit their webpages for additional information.)

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

I.Foundation Courses*

- a. Augustine and Culture Seminar (ACS 1000/1001) (2 courses)
- b. Theology and Religious Studies (THL 1000) (1 course)
- c. Philosophy (PHI 1000) (1 course)
- d. Ethics (ETH 2050) (1 course)

IV.Foreign Languages (Proficiency)

V.Mathematics or Statistics (1 course)

VI.Natural Sciences (2 courses w/labs)

VII.Literature and Writing Seminar * (1 course)

VIII.History (1 course)

IX.Social Sciences (2 courses)

X.Fine Arts (1 course)

XI.Theology and Religious Studies – Upper Division (1 course)

Diversity Requirement

At least two of the courses counting towards graduation requirements must have a “Diversity” attribute. (See detailed explanation below) Diversity courses may be either Core, major, or free-elective courses.

*These courses will not be accepted for transfer credit once a student has matriculated into the College of Liberal Arts and Sciences.

Core Curriculum Course Requirements

Foundation Courses

Augustine and Culture Seminar (ACS) Sequence (2 courses)

ACS focuses on the question: Who am I? The first seminar (ACS 1000 Ancients) contains readings from Hebrew and Christian scriptures, Greek and Roman antiquity, Augustine, and the High Middle Ages, and is dedicated to understanding the foundations of our shared intellectual tradition. ACS 1001 Moderns continues to address the question of identity with texts from the Renaissance to the modern era.

The two-semester ACS course sequence must be taken by all students during the first year of study. Because it is important that students take the Augustine and Culture seminars early in their college careers, students are permitted to drop or withdraw from the courses without academic penalty only under special circumstances. Requests to drop or withdraw must be made to the Assistant Dean for Undergraduate Students. If a student receives permission to drop or withdraw, he or she must take the course at the next possible opportunity. For more information about ACS, [visit this webpage](#).

Theology and Religious Studies: THL 1000 (1 course)

THL 1000 (Faith, Reason, and Culture) studies Christianity with a particular focus on Roman Catholicism. Animated by Augustine's concern to relate Christian faith, reason and human culture, this foundation course in the Core Curriculum is organized around the fundamental question, What do I believe? Students embark on a journey that engages them in the quest of faith seeking understanding in the context of contemporary global religious, theological, and cultural pluralism. Students explore the faith-reason-culture relations through the academic lenses of theological and religious studies disciplines.

Philosophy (1 course)

PHL 1000 Knowledge, Reality, Self explores the philosophical responses to the questions of how we can know, what is real, and what is the nature of the human person.

Ethics (1 course)

ETH 2050 The Good Life: Ethics and Contemporary Moral Problems provides critical reflection on distinctive and viable visions of the moral life, with particular focus on Christian, especially Roman Catholic, Augustinian accounts, and explores the significance of different visions through an examination of various contemporary moral questions. ETH 2050 is the final piece of the foundation courses. Normally students should take ETH 2050 by the end of their junior year, after taking the other four foundation courses.

Foreign Language Requirement (Proficiency)

Language proficiency is required at Villanova 1) through the intermediate level in French, Italian and Spanish; or 2) through the introductory level in ancient Greek, Arabic, Chinese, Irish,

Japanese and Russian. Students who are already proficient in other foreign languages may petition for an exemption from the Core Curriculum Language Requirement subject to the conditions under F below.

Students may satisfy the core curriculum language requirement in one of the following ways:

- A. Advanced Placement Examination
- B. Comprehensive Examination (Proficiency Exam)
- C. Credit by Exam
- D. Romance Languages and Latin
- E. Irish and Critical Languages
- F. Petition for Exemption Due to Documented Language Proficiency

Option A: Advanced Placement Examination

Students may satisfy the Core Curriculum language requirement by attaining a score of 4 or 5 on the applicable Advanced Placement exam. Exams that fulfill the requirement and the course equivalency are listed in the Advanced Placement table in Part III of this manual.

For any language not offered at Villanova (such as German), students will not receive course credit for the AP exam in that language. As with other languages, however, students who attain a score of 4 or 5 will satisfy the language requirement. Students who satisfy the language requirement with AP Exams in languages not offered at Villanova may need to take additional free elective courses to meet the required number of credits to fulfill graduation requirements. Any questions regarding Advanced Placement credit should be directed to the Office for Undergraduate Students in SAC 107.

Option B: Comprehensive Examination (Proficiency Exam)

- Students may satisfy the Core Curriculum language requirement through satisfactory performance on a proficiency exam administered by the appropriate department. Proficiency exams are administered on specific dates and students must register in advance at the website address below. The deadline to register for a proficiency exam is noon the day before the exam. Students deemed proficient by achieving a grade of C or better on the proficiency examination may need to take additional free elective courses to meet the required number of credits to fulfill graduation requirements..

Comprehensive proficiency examinations may be scheduled online [at this linked website location](#). Registration requires a Villanova username and password.

Option C: Credit by Exam

Students who would like to pursue credit for language fluency may do so through the Credit by Exam program for any language taught at Villanova other than their native language. Students must meet all conditions in place through the College of Liberal Arts and Sciences for the Credit by Exam program. There is a fee of \$130.00 per credit. Arrangements for Credit by Exam should be made in the Office for Undergraduate Students in SAC 107. Information about Credit by Exam is available under the policies section of The Guide to CLAS Programs and Policies.

Option D: Romance Languages and Latin

Students selecting this option must take courses through the intermediate II level in language they have chosen. Students who studied French, Italian, Latin, or Spanish in high school must complete an online language placement exam (French, Italian, Spanish) or questionnaire (Latin) to be placed into the appropriate level. Students who place into intermediate II or above must complete the course into which they have placed to demonstrate proficiency and fulfill the requirement. Because placement tests provide only a rough indicator of a student's level, students who are placed into a course higher than Introductory II must complete the course to fulfill the requirement. Students who fulfill the requirement by taking only one course may need to take an additional course to meet the required number of credits to graduate.

For additional information on online placement exams or to take the online test, [please visit this webpage](#).

For additional information on Latin or to complete the Latin placement questionnaire, [please visit the Classical Studies webpage](#).

Option E: Irish And Critical Languages (Ancient Greek, Arabic, Chinese, Japanese, Russian)

Students selecting this option must take courses through the introductory II level for the language they have chosen. These courses are typically four to six credits and meet four to five days per week, depending on the language. Critical language professors will meet with students who have requested placement into these courses during New Student Orientation to determine the appropriate course level. Students should contact individual departments with any questions regarding placement in these languages. Because placement tests provide only a rough indicator of a student's level, students who are placed into courses higher than introductory II must complete the course to fulfill the requirement. Students who are placed directly into an introductory II course may need to take an additional course to meet the required number of credits to graduate.

Option F: Petition for Exemption Due to Documented Language Proficiency

Students who are fluent in languages for which no comprehensive exam is offered through the College of Liberal Arts and Sciences may petition for an exemption from the Core Curriculum language requirement by submitting the Petition for Core Language Requirement Exemption along with documentation of proficiency from an accredited institution located under Student Forms & Policies on the OUS webpage. International students may submit Test of English as a Foreign Language (TOEFL) scores as documentation of foreign language proficiency for the purposes of the petition process. Students deemed proficient through the petition process may need to take an additional course to meet the required number of credits to graduate.

Notes:

- i. Placement tests are used to place students only; they are not to be confused with a proficiency exam.
- ii. Students seeking accommodations for documented learning disabilities should contact the Office of Learning Support Services in the Falvey Learning Commons, Suite 212, or by phone at (610) 519-5176.

- iii. Additional questions regarding the Core Curriculum language requirement should be addressed to a student's faculty advisor or to the Office for Undergraduate Students in SAC 107.

Mathematics or Statistics (1 course)

Students must take one course in either mathematics or statistics. Any course offered by the Department of Mathematics and Statistics fulfills the requirement, although the department offers courses every semester specifically designed for the Core Curriculum. These specifically designed courses, along with courses offered from other departments designated by the Mathematics A & S Core attribute, fulfill the Core requirement.

Science (2 semesters with laboratory)

Non-science majors meet the Core Curriculum Science requirement by taking two semesters of Mendel Science Experience (MSE 2000 or MSE 2001), thematically-based lecture/laboratory courses or two semesters of science courses with a laboratory component designed for science majors.

Science (AST, BIO, BIOC, CHM, CBN, CSC, ENV, MAT, PHY - B.S. only) majors meet the science requirement through the regular program of study in their major.

Mendel Science Experience courses are unique to Villanova and will not be accepted for transfer into the College of Liberal Arts and Sciences.

Core Literature and Writing Seminar (CLAWS) (1 course)

All students take a thematic literature and writing seminar course. Courses designated with the Core Lit & Writing Sem attribute fulfill the requirement.

History (1 course)

This requirement is met by taking a specifically designated course designated by the Core History attribute.

Social Sciences (2 courses)

Students will satisfy the requirement by taking two courses designated by the Core Social Sciences attribute.

Fine Arts (1 course)

The requirement is met through courses that focus on the creative processes that go into making a work of art or on analysis and interpretation of the products of that artistic creativity. Courses designated with the Fine Arts Requirement attribute, fulfill the Core requirement..

Theology and Religious Studies: Upper Level Theology (1 course)

The second TRS course in the Core Curriculum develops the theme of faith seeking understanding, engaging culture from a specific disciplinary perspective. Students must have taken THL 1000 before taking this upper division course designated by the Core Theology attribute.

Diversity Requirement (2 courses)

Consistent with the University's Mission Statement and its implementation of the new Core Curriculum in the College of Arts and Sciences, students will take at least two courses designated as "diversity." Learning to see through the eyes of other peoples and cultures is essential to becoming a citizen of the world. Beyond introducing students to the contextual study of diverse groups, diversity education must foster understanding of how individuals are affected within systems of power, oppression, deprivation, marginalization, and privilege.

The objectives of completing core diversity courses ideally include all of the following:

- a. Expand student knowledge of unfamiliar cultures;
- b. Expose students to the complexity of power relations across and within varying cultures;
- c. Provide students the knowledge-base to develop skills for engaging across cultural contexts.

Students are required to select two courses, covering two out of the three areas below:

Diversity 1: Courses that focus on populations (often named as non-dominant, minority, or impoverished groups) in the U.S. or Western Europe, and the systems or mechanisms that give rise to the experiences of power, privilege, and marginalization.

Diversity 2: Courses that focus on women's experiences and/or highlight the relationship between gender, culture, and power.

Diversity 3: Courses focus on the culture, economics, politics or ecology of societies and nations other than those of Western Europe and the United States and that emphasize power, privilege, and marginalization or a critical analysis of how these cultures define and express themselves.

NOTES:

1. Service learning courses, internships, and other experiential or community-based learning courses may be applied toward this requirement, provided they include a significant reflective component, just as traditional diversity courses do, and have been pre-approved for diversity course credit.
2. Study abroad courses may be applied toward this requirement; such courses will be assessed the same way as courses at Villanova.
3. A student may not use a single course to fulfill more than one category of the diversity requirement.
4. The diversity requirement cannot be fulfilled by independent study or a senior thesis.
5. Language courses cannot fulfill the requirement, although literature courses in a foreign language can fulfill the requirement provided they focus on appropriate material.
6. A student may take 1-credit workshops provided they meet the above stated requirements of a total of 3 credits in one of the Diversity categories.
7. The spirit of the diversity requirement calls for students to select courses that will broaden their education. The Core Diversity Committee believes it is ultimately the student's responsibility to select courses to achieve this goal.

Fulfilling Core Curriculum Course Requirements

1. Courses or sections of courses that are specifically designed to fulfill Core requirements are designated as such in the Master Schedule, which is available online through MyNOVA.
2. With the exception of Diversity courses, a course that is fulfilling a Core requirement for a student cannot also be applied toward that student's major, unless explicitly included in the required course program for the major.
3. With the exception of the Core Foreign Language Requirement, Advanced Placement (AP) credit does not count toward the fulfillment of requirements in the Core Curriculum. AP credits may count toward the fulfillment of major course requirements or as free elective credit. Please discuss this option with your faculty advisor.
4. A course that a student has already taken cannot be retroactively approved to fulfill a Core requirement.

University and CLAS Policies

Unless otherwise noted, the College of Liberal Arts and Sciences follows the general University academic policies and regulations listed in the University Catalog. It is the responsibility of the student to know and comply with all academic policies and regulations of the University and the College of Liberal Arts and Sciences. Such policies may change without prior notice. The following policies are a sample of University and College policies that are frequently referenced by students and are intended for summary purposes only.

Academic Bankruptcy

The Academic Standing Committee may allow a freshman student to declare academic bankruptcy and repeat the semester or academic year with a new start on the cumulative average (though a record of the year's work will remain on the transcript).

Internal transfer students and students who have switched degree programs within the CLAS may be permitted to bankrupt individual courses that do not ordinarily apply to their new curriculum. Before a student may request bankruptcy for specific courses, he or she must have successfully completed two consecutive semesters in the CLAS and attained a minimum GPA of 2.50 in each semester. Bankrupted courses will remain on the student's transcript but will be excluded from the calculation of the GPA and earned credit hours. Students must submit a petition to the Assistant Dean for Undergraduate Students for the exclusion (Susan Jacobs in OUS, SAC 107).

Once a course has been bankrupted the action is permanent and cannot be reversed. In no case will tuition be refunded.

Academic Dismissal

A student who has not met the academic standards of the College (as determined by the Academic Standing Committee and described below) will be dismissed from the College of Liberal Arts and Sciences after two consecutive semesters below a 2.0 cumulative grade point average and/or failure to make academic progress (successful completion of at least 12 credits a semester). Additionally, students on probation who have any of the following grades “N”, “Y”, “F”, “NF”, “U”, or “W” are subject to dismissal from the College. The Assistant Dean for Undergraduate Students (Susan Jacobs in OUS, SAC 107) will inform the student of the dismissal as soon as possible. Typically, the student will be allowed to appeal that dismissal to the Academic Standing Committee and the Assistant Dean for Undergraduate Students. There is no additional process of appeal beyond the Assistant Dean. In some cases (e.g., when the student has had previous warnings or been on probation), the student may, at the determination of the College, be dismissed without right of appeal.

Academic Integrity

Academic integrity is vital to any university community for many reasons. Students receive credit for doing assignments because they are supposed to learn from those assignments, and the vast majority do so honestly. Anyone who hands in work that is not his or her own, or who cheats on a test, or plagiarizes a paper, is not learning, is receiving credit dishonestly and is, in effect, stealing from other students. As a consequence, it is crucial that students do their own work. Students who use someone else’s work or ideas without saying so, or who otherwise perform dishonestly in a course, are cheating. In effect, they are lying. Such dishonesty, moreover, threatens the integrity not only of the individual student, but also of the university community as a whole. The full Academic Integrity Policy can be [found at on this webpage](#).

Academic Probation

A student on academic probation will normally be allowed only one semester to raise his or her grade point average to the required minimum. Once a student has been notified of their probationary status, the student is required to contact their faculty advisor immediately to discuss their probationary status and develop an academic plan for success. While on academic probation, a student may be limited to 13 credits (4 courses), is required to pass all courses of three or more credits, and earn a C (2.00) or higher in those courses. Additionally, students on probation must complete all coursework on time and are not eligible for “N” (incomplete) grades and any “Y”, “F”, “NF”, “U”, or “W” grades may subject them to dismissal from the College.

Academic Progress

To qualify for a bachelor’s degree, a student must earn a cumulative grade point average of at least 2.00 (in addition to completing the studies prescribed for the degree sought). In circumstances involving those students who have entered Villanova University through the Academic Advancement Program, satisfactory progress of the student will be determined by the Academic Standing Committee and/or Assistant Dean for Undergraduate Students (Susan Jacobs in OUS, SAC 107). In the event that, due to poor high school preparation, additional time is necessary for the student to complete the requirements towards graduation, the student will be viewed as being in a five year program. Satisfactory progress will be viewed accordingly.

Academic Standing

The record of any student whose cumulative or semester grade point average falls below 2.00 will be reviewed by the Academic Standing Committee for appropriate action. Students in science programs whose technical grade point average falls below 2.00 will also come before the committee. Typically, the student will either be placed on academic probation or dismissed from the College.

Advanced Placement and International Baccalaureate Credit

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

Incoming students who have taken AP or International Baccalaureate Higher Level (IB) exams should inform their Faculty Advisor and should check with the Office for Undergraduate Students 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.

AP and IB credit cannot be used to fulfill any core requirements, with the exception of foreign language, but may fulfill requirements for majors, minors, concentrations and certificates. AP/IB credits will be treated as transfer credits in these cases and all transfer credit policies will apply. The following is the list of tests and scores and their application to the baccalaureate degree. The first table is a list of Higher Level IB tests and scores; the second is a list of AP tests.

International Baccalaureate Credit and Course Equivalence				
Note: Credit is Only Given for Higher Level Exams				
Subject	Score of 5	Credit	Score of 6 or 7	Credit
Anthropology			SOC 2100	3
Biology			BIO 2105	4
			BIO 2106	4
Chemistry			CHM 1103	1
			CHM 1104	1
			CHM 1151	4
			CHM 1152	4
Computer Science HL	CSC 1051	4	CSC 1051	4
Information Technology	CSC 1930	3	CSC 1930	3
Economics	ECO 1001	3	ECO 1001	3

	ECO 1002	3	ECO 1002	3
English	ENG 1050	3	ENG 1050	3
French A2 or B		0	FFS 1121 FFS 1122	3 3
Geography	GEV 1002	3	GEV 1002	3
History Americas			HIS 4495	3
History Europe			HIS 1021	3
Italian A2 or B		0	ITA 1121 ITA 1122	3 3
Latin	Placement	0	LAT 1121 LAT 1122	3 3
Mathematics			MAT 1500	4
Math Further	MAT 1500	4	MAT 1500 MAT 1505	4 4
Music			SAR 3030	3
Philosophy			PHI 2990	3
Physics			PHY 2410/11 PHY 2412/13	4 4
Psychology			PSY 1000	3
Spanish A2 or B		0	SPA 1121 SPA 1122	3 3

** Sample of lab work needed*

Advanced Placement Equivalency Chart

Advanced Placement Subject-Test Number	Score of 3		Score of 4 or 5	
	Courses	Credits	Courses	Credits
Art History- (13)			AAH 1101 or AAH 1102	3
Biology- (20)			BIO 2105 BIO 2106	4 4
Calculus AB- (66) or Calculus Subgrade- (69)			MAT 1500	4
Calculus BC- (68)			MAT 1500 MAT 1505	4 4
Chemistry- (25)			CHM 1103 CHM 1104 CHM 1151 CHM 1152	1 1 4 4
Chinese Language & Culture- (28)			CHI 1111 CHI 1112	6 6
Computer Science A- (31)			CSC 1051	4
Computer Science Principles- (32)			CSC 1020	3
Economics: Macro- (35)			ECO 1002	3
Economics: Micro- (34)			ECO 1001	3

English Language & Composition- (36) or English Literature & Composition- (37)			ENG 1050	3
Environmental Science (40)			GEV 1052	3
French Language & Culture- (48)			FFS 1121	3
			FFS 1122	3
Government and Politics: Comp- (58)			PSC 1300	3
Government and Politics: US- (57)			PSC 1100	3
History, European- (43)			HIS 1021	3
History, U.S.- (07)			HIS 1002 or HIS 1003	3
History, World- (93)			HIS 1040 or HIS 1050	3
Human Geography- (53)			GEV 1002	3
Italian Language & Culture- (62)			ITA 1121	3
			ITA 1122	3
Japanese Language & Culture- (64)			JPN 1111	6
			JPN 1112	6
Latin- (60)	Placement Only		LAT 1121	3
			LAT 1122	3
Physics C: Mechanics- (80)			PHY 1100	3
			PHY 1101	1
Physics C: Electricity and Magnetism- (82)			PHY 1102	3
			PHY 1103	1
Psychology- (85)			PSY 1000	3
Spanish Language- (87) or Spanish Literature & Culture- (89)			SPA 1121	3
			SPA 1122	3
Statistics- (90)			MAT 1230 or CSC 2300	3

Apply for Re-Admission

Students applying for re-admission should complete the “Application for Re-Admission to the College of Liberal Arts & Sciences” form. Please forward this form and the accompanying items to the Office for Undergraduate Students (SAC 107) via email at as-ous@villanova.edu, fax at (610) 519-6322 or the address below:

Office for Undergraduate Students
 Attn: Susan Jacobs
 800 E. Lancaster Avenue
 SAC 107
 Villanova, PA 19085

Attendance

Class and laboratory attendance for first year students is mandatory. A first-year student will receive a grade of “Y” (failure) whenever the number of unexcused absences in a course exceeds twice the number of weekly class meetings for the course. For students beyond the first year, attendance policies are determined by the instructors of the various courses. The full policy regarding attendance is [available on the Provost’s website](#).

Auditing a Course

A student may elect to audit a course to reinforce and strengthen his/her current knowledge or to explore new areas without the pressure of tests and grades. No academic credit is earned for auditing a course; however, the audited course is noted on the student's official record.

Permission to audit a course must be obtained from the course instructor. Forms to request to audit the course are available in the Office for Undergraduate Students.

CLAS Students Taking College of Professional Studies Courses

Students in the College of Liberal Arts & Sciences are not permitted to enroll in courses restricted to the College of Professional Studies. Course restriction information is available through searching the master schedule in MyNova.

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.

Complaints Against Faculty

Student complaints concerning an instructor’s handling of a class, classroom presentation, professional demeanor, or course policies should be directed to the chair of the faculty member involved. Normally, such complaints should be made within six months of the end of the course in which the complaint arose. If the complaint is against the chair the procedures will be modified in accordance with the University’s policy regarding complaints against faculty. The full policy and guidelines for enforcement are available [to view on this page](#).

Confidentiality

Villanova University’s student records policy was established in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974 as amended. The complete policy can be viewed in the current Villanova University Catalog. Students who do not wish directory information to be made public must complete and submit a Student Record Confidentiality Request Form, along with photocopied proof of identification. A student’s directory information can only be prevented from appearing in publications compiled after the date on which the Office of the Registrar receives the student’s request form; to ensure that your directory information is excluded from the student directory and other annual publications, submit your request form within 10 days of when Fall registration opens. To revoke a confidentiality request, contact the Office of the Registrar in person (Tolentine 202) or mail/fax a written request with photocopied proof of identification.

Credit by Exam

To encourage independent study and recognize personal knowledge and mastery of 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 the webpage located here](#).

Limitations

Participation in the program is not automatically given, and is contingent upon the following limitations:

1. The student must be matriculated, and offer evidence of sufficient background to the department offering the exam to have a reasonable command of the subject matter;
2. If the student has previously taken the exam to waive course requirements, the student may not take an exam for credit in the same course;
3. A student cannot use this program to pass a course for which the student has failed, either at Villanova or any institution;
4. A student on probation, or who is suspended, may not take an exam for credit;

Conditions

The granting of credit is contingent upon the following conditions:

1. A student may not challenge a foreign language requirement in their primary language. Once a sequence of language has begun, a student may not revert to a lower-level course.
2. A fee of \$130 per credit hour will be levied
3. Credit granted will not exceed that assigned to the course as listed in the University Catalog
4. The maximum credit allowed the student through this program is 30 hours
5. Credit for no more than three courses may be applied to a student’s major
6. A passing grade of “CE” will appear on the student’s transcript; a failing grade will not be recorded
7. The test dates, determined by the Director, will take place shortly after the mid-semester break and before the pre-registration period in the Fall and Spring. The exam is also given in July.

Procedure

1. The application process is the responsibility of the student and must be completed one month before the date of the exam. The student begins the application process with the director who will provide them with the appropriate forms and directions for completion.
2. The form is then taken to the Bursar’s Office for validation once the appropriate fee is paid. A “no show” student forfeits all fees.
3. During the week prior to the exam, the department will provide the director with a copy of the exam for each candidate. This will be in a sealed envelope properly identified with the student’s name, Banner ID, department, and exam title on its front.
4. Notification of students of time and place of the exam, and other arrangements, are the responsibility of the Director.

5. Students who fail the exam have the right to review it with the faculty in question. Exams are destroyed in the semester in which they are administered.
6. The Director will notify the students and the Registrar's Office of the exam results.

Credit Increases

Students should complete the "Request for a Credit Increase" form if trying to register for five courses of three or more credits (and additional 1 to 2 credit courses) and need more than 17 credits, if an Arts student, or 19 credits, if a Sciences student. The form should be completed this form prior to the assigned registration time and submitted it to the Office for Undergraduate Students.

Note: If a student's cumulative GPA is at least 3.0 and she/he/they would like to take a sixth course with credits totaling to 19 credits, the credit limit is raised after the final registration period for students with a cumulative GPA of 3.0 or higher for arts and sciences students. Students that fall under this category do not need to fill out a form.

Cross College Majors

Students in the Colleges of Engineering and Nursing and the Villanova School of Business may pursue a second major in the College of Liberal Arts and Sciences. The CLAS major will be considered a second major added to the student's primary degree program; the student will not be required to complete CLAS Core or Free Elective requirements and will not be awarded a second degree. The second major will be noted on the student's official transcript. Students who wish to pursue this option must complete the appropriate form (available in the Office for Undergraduate Students, SAC 107) and obtain all required signatures.

Dean's List

At the end of the fall and spring semesters, the College of Liberal Arts and Sciences officially recognizes its high-achieving students by including their names on the Dean's List. Inclusion on this list recognizes a student's commitment to an intellectually rigorous education in the liberal arts and sciences, one that fosters critical insight, mature judgment, and independent thinking. Students must complete at least 12 credits of letter grade courses each semester with a minimum GPA of 3.50. No S, WX, or N grades are permitted in these 12 credits.

Declaring or Changing a Major for CLAS Students

Students wishing to declare or change their major/program should complete the "Application to Change or Declare Major" and submit it to the department of the major. The department will then assign an advisor to the student and forward the form to the Office for Undergraduate Students. Once received, the Office for Undergraduate Students will notify the student of the status of their request.

Declaring a CLAS Minor or Concentration

To declare a concentration or minor within CLAS, complete the "Application to Add or Remove a CLAS Minor or Concentration" and submit it to the desired concentration/minor department/program. Some CLAS departments have additional requirements to apply to the minor. Consult with the department for additional information.

Degree 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:

1. A minimum of 122 credit hours;
2. The successful completion of the Core Curriculum, academic major requirements, and free electives*;
3. A cumulative GPA of at least 2.00. (Science students must also have a minimum technical grade point average of at least 2.00);
4. A minimum of half of the Core Curriculum requirements must be fulfilled at Villanova University;
5. A minimum of half of the requirements for the major must be fulfilled at Villanova University;
6. The final 30 credits of the degree program must be earned at Villanova University or a Villanova University approved program;
7. At least 61 credits must be earned at Villanova University.

**Please note that a maximum of 10 credits in courses fewer than 3-credits may be applied to a student's free-elective area. Lab courses are not eligible to count toward free electives. Further restrictions regarding subject of these courses apply.*

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.

Disclosure of Student Records

Villanova University, in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, has adopted a Student Records Policy to address the following issues with respect to education records: (1) disclosure of directory information; (2) confidentiality of personally identifiable information; and (3) student rights to inspect, review and seek amendment of their records. In general, education records are defined as records maintained in any form by the University that are directly related to a student. The full text of this policy [is available on the Provost's webpage](#).

Double Majors/Primary & Secondary Majors

Applications to request a double major are available in the Office for Undergraduate Students (OUS). The completed form must be approved by the Department Chair of the second major and submitted to OUS. Students may not double major in both Comprehensive Science and in another science OR Liberal Arts and another major. A student may not declare a secondary major without first declaring their primary major.

Drop/Add

During the first five (5) class days of a semester, students are given the option of dropping or adding courses by using their pin number and going online through MyNOVA, or by completion of a paper form available in the Office for Undergraduate Students without incurring academic penalty or affecting the student's official transcript. After this period, students may withdraw from courses but may not add a course.

Dual Degree Policy

Normally, a student may receive only ONE degree, regardless of how many majors s/he earns. Students who have completed all the requirements for two or more degrees – e.g., B.B.A. and B.S.A, or B.B.A. and B.A, or B.A. and B.S.. – must choose which degree to take – unless they have completed 43 or more additional credits beyond the greater of the two program credit requirements, in which case they may receive two degrees and two diplomas. Multiple majors, regardless of college, will appear on a student's transcript.

F Grade

Required courses carrying a final grade of F must be repeated unless the student transfers to another college of the University where the course for which the F grade was received is not a requirement for the degree. The reasons for student deficiencies are reported by the faculty member at mid-semester and at the end of the semester to the Office for Undergraduate Students.

Fast Forward 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.

Final Exams and Finals Week

Occasionally students will encounter conflicts in the examination schedule such that two of a student's examinations are scheduled at the same time or three examinations are scheduled on the same day. In the event of such a conflict, the student must notify the instructor at least seven days in advance of the scheduled exam. The instructor will make alternative arrangements for the student to complete the examination. In resolving conflicts, multiple section exams should take precedence over exams for a single section, and courses in the major should take precedence over non-major courses. Extraordinary difficulties encountered in effecting such an arrangement will be resolved by the Assistant Dean for Undergraduate Students (Susan Jacobs in OUS, SAC 107). The full text of this policy is available [on this webpage](#).

Full-Time Student Status v. Part Time Student Status (i.e. Scholastic Load)

A student must take a minimum of 12 credits a semester to be a full-time student. In the College of Liberal Arts & Sciences, students with a G.P.A. over 3.0 may sign up for an overload with registration for the sixth course possible only after the main registration period is over. No special approval would be needed.

Grade Appeals

Student complaints concerning a grade should be directed to the chair of the faculty member involved. The chair shall normally require, but do no less than urge, a student who brings a complaint about a grade in the first instance to try to resolve the matter with the course instructor. That failing, the chair should attempt to resolve the issue between the student and instructor. The chair may consult with others in connection with his or her review of the complaint. Such complaints should be made according to the following deadlines: Spring Semester and Summer Semester grade complaints: Last Friday in August; Fall Semester grade complaints: Last Friday in January. If the complaint is against the chair, it should be directed to the Dean. The full text of the policy and process regarding grade appeals is available [on this website](#).

Grade Changes

All grades are permanent except for N and NG, which are temporary grades and must be replaced with grades submitted by the instructor. If a change is not submitted, the N or NG automatically becomes an NF. Students must submit all work to instructors by the last Friday in January (Fall semester) or June (Spring semester). Instructors must submit replacement grades by the second Friday in February (Fall semester) or July (Spring semester).

Grade Definitions and Values

A (4.00), A- (3.67)

The highest academic grade possible; an honor grade which is not automatically given to a student who ranks highest in the course, but is reserved for accomplishment that is truly distinctive and demonstrably outstanding. It represents a superior mastery of course material and is a grade that demands a very high degree of understanding as well as originality or creativity as appropriate to the nature of the course. The grade indicated that the student works independently with unusual effectiveness and often takes the initiative in seeking new knowledge outside the formal confines of the course.

B+ (3.33), B (3.00), B- (2.67)

A grade that denotes achievement considerably above acceptable standards. Good mastery of course materials evident and student performance demonstrates a high degree of originality, creativity, or both. The grade indicates that the student works well independently and often demonstrates initiative. Analysis, synthesis, and critical expression, oral or written, are considerably above average.

C+ (2.33), C (2.00), C- (1.67)

Indicates a satisfactory degree of attainment and is the acceptable standard for graduation from college. It is the grade that may be expected of a student of average ability who gives to the work a reasonable amount of time and effort. This grade implies familiarity with the content of the course and acceptable mastery of course material; it implies that the student displays some evidence of originality and/or creativity, and works independently at an acceptable level and completes all requirements.

D+, (1.33), *D* (1.00), *D-* (0.67)

Denotes a limited understanding of the subject matter, meeting only the minimum requirement for passing the course. It signifies work which in quality and/or quantity falls below the average acceptable standard for passing the course. Performance is deficient in analysis, synthesis, and critical expression; there is little evidence of originality, creativity, or both. Note: D- is the lowest passing grade awarded.

F (0.00)

Indicates inadequate or unsatisfactory attainment, serious deficiency in understanding of course material, and/or failure to complete requirements of the course.

N Incomplete: Course work not completed.

S Satisfactory: Assigned in Satisfactory/Unsatisfactory courses.

SP Satisfactory: Progress (for use at Mid-Term Only)

U Unsatisfactory: Assigned in Satisfactory/Unsatisfactory courses.

WX: Approved withdrawal without penalty.

W: Approved withdrawal with penalty.

AU: Audit.

Y: Unofficial withdrawal from course (or for freshmen, failure for excessive absences)

NG (Or Blank): no grade reported. All grades are permanent except for N and NG, which are temporary grades and must be replaced with grades submitted by the instructor. If a change is not submitted, the N or NG automatically becomes an NF. Students must submit all work to instructors by the last Friday in January (Fall semester) or June (Spring semester). Instructors must submit replacement grades by the second Friday in February (Fall semester) or July (Spring semester).

Grade Point Average (GPA)

In addition to passing all required courses, a cumulative grade point average (GPA) of at least 2.0 is necessary for graduation. For science students, a Technical GPA of at least 2.0 is also required. For Arts students, some majors may also require a minimum GPA for all courses that are used to meet the major requirements. Grades for all courses taken at Villanova University (except S/U grades and WXs) are calculated in the GPA. If a course is repeated, then both grades are included in the computation. If a transfer course is accepted to fulfill a requirement for a failed Villanova University course, then the failed Villanova course is still included in the GPA computation. The grade point average is determined by taking the number of credits for each course times the quality points earned and dividing the total quality points by the total credit hours attempted.

Example of GPA Calculation

GPA= Total Quality Points /Total Attempted Credits

	Course Grade	Credits	Quality Points
Course #1	B	3	9.00
Course #2	C	3	6.00
Course #3	C	3	6.00
Course #4	C	3	6.00
Course #5	F	3	0.00

Total Attempted Credits: 15 Total Earned Credits: 12 Total Quality Points: 27

GPA = $27/15 = 1.80$

Grade Reports

Grade reports are computed at the middle and end of each semester. However, only the grade report at the end of the semester is part of the student's permanent record. These reports are available to students online through their MyNOVA account. Students are directed to <http://villanova.edu/vpaa/office/catalog> for a complete description of the University Grading System. Any inaccuracy in this record must be reported to the Office of the Registrar within two weeks of its receipt; otherwise, the grade will stand as it is.

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

Grade Extensions on Incomplete Grades

Students who have taken an incomplete (i.e., "N") grade and need additional time to complete the work due to extenuating circumstances must first gain the professor's approval. If the professor grants the request, the student and professor must agree upon a completion date for the work, complete a "Request for Grade Extension on an Incomplete Grade" form, and submit it to the Office for Undergraduate Students for the Assistant Dean's approval prior to the initial deadline for the submission of incomplete work, which is posted on the online academic calendar. Students may only extend the deadline for courses in which an incomplete was taken once with the Assistant Dean's approval. Students may be required to submit supporting documentation.

The Remaining coursework must be completed and submitted by the established deadline or the grade will convert to an "NF" grade, which is calculated as an F in the student's GPA. No further grade extensions are possible. Any discrepancies for an Incomplete N grade must be resolved before the completion of the following semester.

Laboratory Science Accommodation for Student with Disabilities

Villanova University recognizes its responsibility to provide alternatives to the laboratory experience for those students who have documented physical disabilities and are unable to perform laboratory work. Mendel Science Experience courses are a part of the Core Curriculum in the College of Liberal Arts and Sciences, and each of these courses is coordinated lecture/laboratory. In the event that a student has a proven disability, verified by a physician, the student should meet with the course professor at the start of the semester to discuss alternative to the co-requisite laboratory. In lieu of a laboratory, an appropriate alternative experience may be obtained by performing library research on a specific topic agreed upon by the student and the professor – one relevant to the course material and equivalent in rigor to a three hour laboratory.

The student and faculty member should fill out a form designating, the topic to be researched, the expectations of the faculty member in terms of coverage, rigor, and due date. Both the faculty member and student should sign and date the form prior to sending it to Dr. Crystal Lucky, Associate Dean for Baccalaureate Studies, SAC 105.

Leave of Absence

Students who plan to leave the University on a temporary basis should request a Leave of Absence. Official leave of absence from the University must be authorized by the Assistant Dean for Undergraduate Students. Students interested in pursuing a Leave of Absence should contact the Office for Undergraduate Students to review the process and make an appointment with the Retention Manager, (Charisma Presley, SAC 107).

The full text of this policy is available [on this webpage](#).

Mathematics Placement

The Core Curriculum requirement for all students in the College of Liberal Arts and Sciences is one course. Science majors and some others are required to take a two-semester sequence or more. Incoming students in the College of Liberal Arts and Sciences will normally take a Math or Statistics course in either the fall or spring semester of their first year. A student's potential choice of major and career plan affects his or her choice of Mathematics courses.

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.

Medical Leave of Absence

A student may experience physical or psychological conditions that significantly impair the student's ability to function successfully or safely in his or her role as a student. In such cases, the student may decide that time away from the University for treatment and recovery can help restore functioning to a level that will enable the student to return to the University and perform successfully in and out of the classroom. Students interested in pursuing a Medical Leave of Absence should contact the Office for Undergraduate Students to review the process and make an appointment with the Retention Manager Charisma Presley (SAC 107).

Official Date of Graduation

The Academic Calendar for each year shall indicate the official graduation dates for the University. (These dates should not be confused with the dates for the annual commencement exercises). The Deans shall send the Registrar a list of all students in their College or School who

have satisfactorily completed by the official graduation date all the requirements for graduation. The Registrar shall issue diplomas only to those students whose names appear on the list.

The current graduation dates are May 31, September 1, and December 31. Students certified after any of these dates will graduate officially at the next commencement.

Overload Policy

The normal course load each semester for full-time students is five courses of three credits or more (excluding labs and other 1-credit courses). The credit limit set by the Registrar during the pre-registration period is 17-credit hours for Arts students and a higher number for Science students. In order to be granted permission for an overload, a student must have a cumulative grade point average of at least 3.0 (2.75 for the summer), or have achieved senior status and need a sixth course to fulfill graduation requirements.

After all students have had the opportunity to register for five courses, credit limits will be raised by the Registrar for students with a GPA of 3.0 or higher and for seniors in order to allow them to register for a sixth course through MyNOVA using their semester PIN. In no case will permission be granted for a student to take 7 courses or more than 21 credits.

Students with a GPA lower than 3.0 that need to enroll in more than 17 credits a semester to achieve the normal course load for full time students of five courses will need to have their credit limit raised prior to registering online.

Phi Beta Kappa (ΦBK)

Phi Beta Kappa (ΦBK) 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. The Sigma of Pennsylvania Chapter of Phi Beta Kappa was founded at Villanova University in April 1986.

Phi Beta Kappa standards reflect the highest ideals of liberal arts education at Villanova: education that is concerned with values and facts, as well as wisdom and knowledge; education that seeks freedom from ignorance, alienation, and inhumanity; education 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.

1. Candidates must have a GPA of at least 3.50 (3.80 to be elected as a junior).
2. 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.

The Chapter chooses candidates with 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 membership.

President

Lynne Hartnett, Ph.D. (History) Associate Professor

Vice President and President-elect

TBD

Secretary/Treasurer

Douglas Norton, Ph.D. (Mathematics and Statistics) Associate Professor and Chair

Refunds

Refunds as a result of official withdrawal will be made according to the schedule [posted here by the Bursar's office](#). Excluded from the refund calculation will be the costs related to on-campus housing and university meal plans. Activity, library, and medical fees are not refundable. There will be no refund for unauthorized withdrawals. Students who do not register or who notify the Registrar's Office prior to the first day of class that they will not enroll are entitled to a full refund.

Removal of AP Course Credit

Students requesting to remove credit for AP courses should complete [this form](#) when to remove credit previously earned through an advanced placement test and submitted to Villanova University. Submitting this request finalizes the removal of the credits from your transcript which cannot be reversed.

Repeat Course Request

Students may request to repeat a course that they have previously taken while at Villanova. The following conditions are in place:

1. The previous course will still be listed on the official transcript; repeating a course does not eliminate the previous attempt taken.
2. A combination of the two course grades will factor into the GPA; getting a different grade on the second attempt of a course does not replace the first attempt's grade with the second attempt's grade.
3. The course repeated will only count for credit once on the transcript; taking a course a second time does not mean a student receives credit for both attempts.
4. No course can be taken a third time; a student may only repeat a course once.

Forms to request to repeat a course are available in the Office for Undergraduate Students. Requests must be approved by the department offering the course and the advisor.

Required Units for Admission

Although individual consideration is given to each applicant, it is expected that all applicants, except in the most unusual circumstances, will minimally satisfy the unit requirements listed below. A unit represents a year's work.

For Arts Curricula:			
English	4	Mathematics	3
Foreign Language	2	Science	1
History or Social Science	2	Electives	3
For Science and Mathematics Curricula:			
English	4	Foreign Language	2
Chemistry	1	Physics	1
Mathematics	4	Electives	4

Residency Requirement for Graduation

A student must complete the final 30 credit hours of an academic program at Villanova.

Satisfactory/Unsatisfactory Grades

Grades of Satisfactory (equivalent to a “C” or better) and Unsatisfactory (equivalent to a “C-” or worse) are shown on the transcript but not included in the quality point average. Sophomores, juniors, and seniors may take one elective course a semester on a satisfactory/unsatisfactory basis. The Satisfactory/ Unsatisfactory (S/U) option may not be used for courses that fulfill core, major, or minor requirements, but individual departments may offer the major seminar on a S/U basis. Credits for courses with Satisfactory (S) grades are included in credits earned. Students must opt for S/U by the end of the drop/ add period by using the paper form available in the Office for Undergraduate Students and in the Office of the Registrar. Unsatisfactory (U) grades need not be repeated. Any withdrawal from a S/U course must be submitted to the Office for Undergraduate Students by the authorized Withdrawal (WX) deadline for that semester. A course taken as S/U is counted as a course for course overload purposes.

Students with Disabilities

Villanova University strives to provide an environment for personal and intellectual growth of all its students, and also complies with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. In order to meet these commitments, Villanova offers educational opportunities and reasonable academic accommodations for the needs of qualified students with disabilities. The University's goal is to provide access and reasonable accommodations in helping the students achieve those expectations. Services for students with physical disabilities are coordinated through the Office of Disability Services. Services for students with disabilities that impact on learning are provided by various offices and coordinated

by Learning Support Services (LSS). The full policy regarding students with disabilities is available [may be viewed on the page](#).

Transfer Credit Hours

Transferring Courses from Full-Time Enrollment

Students who wish to receive credit for college courses taken at another institution prior to attending Villanova must present an official transcript, course descriptions, and other documentation as needed to the Office for Undergraduate Students. Transfer credit may be awarded for college-level courses used to meet high school graduation requirements (subject to the criteria listed above). Courses will be considered for transfer credit only upon receipt of an official transcript and copies of official course descriptions. In some cases, it may be necessary to review the course syllabus to determine whether credit may be granted. It is the responsibility of the student to supply all necessary documentation.

Please note the following policies concerning transfer courses:

- In order to receive credit for a course taken at another institution, a student must have earned a grade of C or higher, and there must be an equivalent Villanova course.
- Grades earned in courses taken at other institutions are not factored into a student's Villanova grade point average.
- Transfer credits may be used to fulfill no more than half of the required courses for each of the following: CLAS degree, major, minor or concentration, and CLAS Core Curriculum.
- Courses taken at two-year institutions, including community colleges, are eligible for transfer credit only if the courses were taken prior to a student's matriculation at Villanova.
- Students may transfer a maximum of five non-CLAS courses that have equivalents in the other Villanova academic colleges (Business, Engineering, and Nursing). Students who wish to have such courses evaluated for transfer credit must submit course descriptions and/or syllabi to the appropriate college for review.
- Courses should be presented for evaluation prior to a student's first semester at Villanova. Courses presented after the student's first year at Villanova will no longer be eligible for credit.

College Courses Taken Prior to High School Graduation

College-level work completed prior to high school graduation, including college courses that fulfill high school graduation requirements, may be awarded transfer credits upon receipt of the following:

1. an official letter from the high school principal, secondary school counselor or other educational professional describing the college-level program of study.
2. an official letter from the college/university stating that the courses were taught by members of the regular faculty, open to enrollment by and graded in competition with regularly matriculated undergraduates at the college and a regular part of the normal curriculum published in the college catalog;
3. a course syllabus; and

4. an official, seal-bearing transcript from the college/university showing a grade of C or better. Credit or advanced standing for courses taught at the high school will not be accepted.

With respect to courses taught in a distance learning format, and for other requirements, each academic program will review on a case by case basis. Each supporting document is to be sent to the Dean of the College in which the student is enrolling.

All pre-matriculated credit must be accepted and approved before the completion of two semesters at Villanova.

Enrolling in Courses at Another Institution as a Villanova Student

Once a student has matriculated in a degree program at Villanova University, credit for courses from other universities may only be transferred to Villanova under certain circumstances. Students may request to enroll in courses at another institution through filling out the “Request to Enroll in Courses at Another Institution” form. The Office for Undergraduate Students must receive official transcripts for approved courses taken elsewhere before the completion of two subsequent semesters at Villanova. Credits will not be accepted for courses take place during terms that do not align with Villanova’s academic calendar.

Transfer Students

External Transfer Students

Students wishing to transfer to the College of Liberal Arts and Sciences after having attended a college or university other than Villanova must submit a formal application to the Office of University Admission. Candidates for transfer admission ordinarily will have completed a minimum of five college courses of three credits or more with a grade of C or better in each course and earned a grade point average (GPA) of at least 3.0. Students who previously applied to the College of Liberal Arts and Sciences and were placed on the waiting list will be considered for transfer admission. External transfer applicants must indicate if they are applying to another Villanova academic college in addition to the CLAS. Students who have transferred from another institution to the CLAS are not eligible to transfer internally to any of the other Villanova academic colleges. If you intend to earn a degree from the School of Business, College of Nursing, or College of Engineering, you must apply directly to that college. Transfer applications must be received by June 1 for Fall Semester applicants and November 1 for Spring Semester applicants. Offers of admission are contingent upon successful completion of the current semester’s courses and may be rescinded. Applicants must present appropriate documentation in order to receive credit for courses taken at their previous institution (see above criteria). Students intending to transfer more than fifteen courses must apply to and be accepted into a major prior to enrollment.

Internal Transfer Students

Students who wish to transfer to the CLAS from other Villanova academic colleges CLAS must complete the Application to Enter the College of Liberal Arts and Sciences and must read and sign the CLAS Internal Transfer Policy form. (These forms are available on-line and in the Office for Undergraduate Students.) Applicants will be notified of an admissions decision at the end of the semester during which the application was submitted. The minimum criterion for

admission to the CLAS is a GPA of 2.33 for all Arts courses taken at Villanova. Students are not permitted to transfer from the College of Liberal Arts and Sciences to the College of Professional Studies.

Unauthorized Withdrawal

Students who leave the University without authorization will be treated as having withdrawn from the University. They may not return to the University without reapplying directly to one of Villanova's colleges.

Undergraduates Taking Graduate Level Courses

Undergraduates may take graduate courses, provided they meet the standards set down by each college: e.g., senior standing (in terms of credits, not in terms of years at Villanova), grade point average, and appropriate permissions (advisor, assistant dean, chair). Undergraduates may take a maximum of two graduate courses in any semester. If an undergraduate takes a graduate class, in that semester s/he is limited to taking a maximum of 16 credit-hours of work. Further restrictions and the full policy can be [found on the Provost website](#).

University Withdrawal

Students who wish to leave and who do not plan to return to the University should request a Withdrawal. Official withdrawal from the University must be authorized by the Assistant Dean for Undergraduate Students. In order to affect an official withdrawal, students should contact the Office for Undergraduate Students to review the process and make an appointment with the Retention Manager, Charisma Presley (SAC 107). Students who request an official withdrawal during the semester may be eligible for refund of some or all of the tuition paid for that semester. A student who has withdrawn from the University who wishes to return, must apply directly to the college the student wishes to attend (admission is granted at the sole discretion of the dean of that college). The full policy addressing University withdrawal is available [on the Provost website](#).

W Grade

Withdrawal after the official deadline is indicated by a W grade, withdrawal with academic penalty. The grade is calculated as an F in determining the GPA.

Walkers at Commencement

Each year there are a small number of students who have not fulfilled all of the requirements for May graduation but who wish to participate in commencement exercises with their entering class. Students who have only three or fewer courses remaining to fulfill the requirements for graduation, or who can complete the degree requirements before the beginning of the next Fall Semester, may petition to participate in the graduation ceremony. The names of all such students throughout the University will not be included in the commencement program until the following May, after they have in fact been graduated. Students may participate in only one commencement ceremony

Students wishing to walk at commencement should complete the petition form available on MyNova and in the Office for Undergraduate Students. This petition is due no later than April 15. Any student wishing to walk must meet with the Director of Student Services.

Withdrawal from a Course

Until the final day for authorized withdrawal from courses, (for an exact date, see the [academic calendar](#)), a student may withdraw from a course without penalty and will receive the grade of "WX." After that date, a student seeking authorized withdrawal without penalty must petition the Dean of his or her college, who has sole authority to grant withdrawals without penalty.

Note that withdrawals without permission will receive a "W" grade, which is calculated as an "F" in computing one's quality point average.

WX Grade

The grade WX indicates an authorized withdrawal; the grade is not considered in the calculation of the GPA and tuition will not be refunded. The last day for Authorized Withdrawal Without Academic Penalty (WX grade) is published on the official University calendar and usually occurs after mid-term grades have been submitted and during the academic advising and course selection period for the upcoming semester. Authorization for such withdrawal may be given only by the Assistant Dean for Undergraduate Students (Susan Jacobs in OUS, SAC 107).

Y Grade

The grade Y is given when a student unofficially withdraws from a course (usually stops attending class). It is reflected in the grade point average (GPA) as an F. If a course is repeated, then the grades in both courses will be included in the GPA calculation. **A first-year student** will receive a grade of Y (failure) whenever the number of unexcused absences in a course exceeds twice the number of weekly class meetings for the course.

Academic Programs

The following information is designed to give students a brief overview of the various degree programs in the College of Liberal Arts and Sciences. Please contact individual departments or visit their webpages for additional information about a particular program.

Aerospace Studies Program

(Air Force ROTC)

Program offered through St. Joseph's University

About

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 will be 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.

Detailed information may be obtained from the Professor of Aerospace Studies, AFROTC Det 750, Saint Joseph's University, Philadelphia, Pennsylvania 19131, (610) 660-3190. Go to <http://www.afrotc.com/> for further details.

Africana Studies (GIS)

Program Director: Vincent Llyod, Ph.D.

Office Location: SAC 228

Email: vincent.lloyd@villanova.edu

[Website](#)

About

The Africana Studies Program of Villanova University, initiated in 1993, is open to all students of the University. It offers a rich, deep, dense, innovative, and integrative interdisciplinary intellectual fare from most of the major disciplines of the College of Liberal Arts and Sciences and its programs.

Africana Studies engages Africa and peoples of African descent wherever and whenever they might be found. Its fundamental premise is quite straightforward: Africa and its Diasporas are global phenomena. Their presence, intellectually, conceptually, and physical can be found throughout the world from the beginning of time to the present. That presence alone merits intellectual inquiry, and in our current age, the intellectual space that Africana Studies opens for us is nothing short of astounding for the "inquiring mind."

MAJOR (34 Credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Africana Studies. Please see that page for detailed requirements of the major.

MINOR (15 credits)

The Africana Studies program consists of 15 credits. To apply for a minor, students should fill out the declaration of minor form available on the website for the Office for Undergraduate Students.

Required courses:

- AFR 3000: Constructs of Blackness (3 cr)
- One course in Africana History or Africana Literature (3 cr)
- Three elective courses carrying the AFR attribute (9 cr)

Program Notes:

- Students may combine three 1-credit IGR courses to count as one of the undesignated Africana courses.

Courses taken as a part of a study abroad program may also be counted toward completion of the requirements.

Arab and Islamic Studies (GIS)

Program Director: Catherine Warrick, Ph.D.
Office Location: 254 Saint Augustine Center
Telephone: (610) 519-7712

[Website](#)

About

The Arab and Islamic Studies program offers a major and minor within the Department of Global Interdisciplinary Studies (GIS). The major and minor provide an interdisciplinary and comparative approach to deepen students' understandings of the history, politics, culture, religion, and literature of Arab and Islamic societies. The Arab and Islamic Studies major provides outstanding preparation for careers in government, the military, business, and nonprofits, as well as essential training for graduate education. Villanova's Center for Arab and Islamic Studies, created in 1983, offers not only the AIS major and minor, but a range of programs and events on campus every semester.

MAJOR (31 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Arab and Islamic Studies. Please see that page for detailed requirements of the major.

MINOR (15 credits)

A minor is open to all students and requires 5 courses and 15 credits.

Required Courses:

- One capstone course with an AIS attribute (3 cr)
- Two AIS attribute courses in history, political science, or theology (6 cr)
- Two additional courses with the AIS attribute from any subject (6 cr)

Arabic Language and Cultural Studies

Coordinator: Barbara Romaine, M.A.

Office Location: 36 Garey Hall

Telephone: (610) 519-6302

[Website](#)

About

The Arabic Language and Cultural Studies program offers Arabic language and linguistic study, and classical and modern literature and cultural study. Arabic is the language of a rich culture and civilization dating back many centuries; it is also the language of Islam and the Quran. This culture has produced such figures as Averroes, the medieval Aristotelian philosopher, Ibn Khaldun, the first social historian, and the modern poet Khalil Gibran. Between the 8th and 15th centuries the volume of literary, scholarly, and scientific book production in Arabic and the level of urban literacy among readers of Arabic were greater than any the world had even known until that time.

The program represents a cutting-edge intellectual experience that provides its minors with an advantage in critiquing, understanding, and navigating the global landscape.

MINOR (28 credits)

Students can earn a minor in Arabic Language and Cultural Studies with six courses, listed below.

Required Courses:

- ARB 1111: Basic Arabic I (6 cr)
- ARB 1112: Basic Arabic II (6 cr)
- ARB 1121: Intermediate Arabic I (5 cr)
- ARB 1122: Intermediate Arabic II (5 cr)
- Two 3-credit courses in Arab cultural studies. Choose from:
 - ARB 2142: Arab Culture through Film and Text (3 cr)
 - ARB 2143: Arab Culinary Culture (3 cr)
 - ARB 3412: Special Topics (3 cr)
 - ARB 5900: Independent Study (3 cr)
 - Other culture-based courses with the AIS attribute.

Art History

Program Director: Timothy McCall, Ph.D.

Office Location: Saint Augustine Center, Room 403

Telephone: (610) 519-3897

About

The Art History Program at Villanova provides students with the knowledge and skills to interpret and critically evaluate art – and its production, reception, and materiality – from the perspectives of different societies across time. We encourage students to investigate art not only as cultural artifacts that record and reflect particular aspects of the human experience, but also as a dynamic force that has shaped complex interactions of social, political, and economic processes both in the past and the present.

In harmony with the university's Augustinian mission and unique identity, the Art History Program emphasizes the benefits of a broader, liberal arts education. More particularly, art history students can expect to leave Villanova as sophisticated viewers and critical consumers of the visual imagery that surrounds us.

MAJOR (33 credits)

The Art History major consists of 33 credits.

Required Major Courses:

- AAH 1101: Ancient to Medieval Survey (3 cr)
- AAH 1102: Renaissance to Modern Survey (3 cr)
- Three courses pre-1700. Choose from:
 - AAH 2000: Ancient Art (3 cr)
 - AAH 2001: Medieval Art (3 cr)
 - AAH 2002: Early Renaissance Art in Italy (3 cr)
 - AAH 2003: Age of Rembrandt & Bernini (3 cr)
 - AAH 2012: High Renaissance Art in Italy (3 cr)
 - AAH 3007: The Art of Ireland (3 cr)
 - AAH 4004: Special Topics Ren Baroque (3 cr)

- Two courses post-1700. Choose from:
 - AAH 1103: Visual Arts in US 1607-1876 (3 cr)
 - AAH 1104: Visual Arts in US 1877-Present (3 cr)
 - AAH 2004: Modern Art (3 cr)
 - AAH 2005: Modern Architecture (3 cr)
 - AAH 2007: History of Western Architecture (3 cr)
 - AAH 2009: Contemporary Art (3 cr)
 - AAH 3001: Women in Art (3 cr)
 - AAH 3002: Art of Philadelphia (3 cr)
 - AAH 3003: Romantic to Post-Impressionistic Art (3 cr)
 - AAH 3005: Gender, Sexuality, and Visual Culture (3 cr)
 - AAH 4005: Picasso & Friends (3 cr)
- One course related to art history in another discipline. Choose from:
 - A studio art course from among: SAR 2010, 2020, 2021, 2022, 2023, 2150, 2151, 3031, 4007, 5004 (3 cr)
 - HIS 2309: Artifacts in History (3 cr)
 - MSE 2303 CHM: The Science of Art (4 cr)
 - PHL 2750: Philosophy of Art (3 cr)
 - A team-taught interdisciplinary course with one Art History faculty member (GIS, History, etc.)
 - Occasionally courses offered in various departments meet this requirement at the discretion of the Program Director.
- One upper-level Art History Elective from AAH 2000 to AAH 4999
- AAH 4010: Interpreting Art (3 cr)
- AAH 5010: Senior Research Seminar (3 cr)

Asian Studies (GIS)

Program Director: HaiLin Zhou, Ph.D.

Office Location: Gary Hall 34

Telephone: (610) 519-6996

[Website](#)

About

Asia is a dynamic world region and its cultures and societies are a complex mix of both ancient traditions and modern ideas. Asia has the fastest growing economy in the world and is the birthplace of many of our new technologies. Asia is rapidly changing, democratizing, and internationalizing in ways that present both perils and possibilities for people across the globe.

In the Villanova Asian Studies Program, we offer a Major in Asian Studies as Global Interdisciplinary Studies specialization as a way for undergraduates to learn to examine the world — and themselves — through the lens of another language and culture.

The Asian Studies program offers a major and minor within the Department of Global Interdisciplinary Studies (GIS) that helps students understand the diverse histories, politics, economies, cultures, religions, arts and literatures of Asia. The program encourages in-depth study while also promoting more general inquiry into fundamental issues, such as cultural differences among Asian nations and their social and political implications, as well as learning

critical thinking and problem solving to prepare students to be responsible global citizens. The program offers them not only specialized knowledge and appreciation of a region that has had, and will undoubtedly continue to have, a profound impact on the material and spiritual well-being of humanity, but also prepares them to play their own roles in a globalized world in the “Asian Century.”

MAJOR (31 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Asian Studies. Please see that page for detailed requirements of the major.

MINOR (15 credits)

Required Courses:

- Five Asia related courses:
 - Three Chinese, Japanese, or other Asian language courses at the intermediate level or above
 - Two non-language lecture courses

Program Notes

- Courses taken as part of a Study Abroad program and one internship done abroad may count towards the minor.
- Coursework must be done on more than one country in Asia (e.g. China, Japan, Korea, India, etc.); and in more than one discipline or department (e.g., Political Science, History, Religion, Psychology, Marketing, Economics, Global Interdisciplinary Studies, etc.).

Astrophysics and Planetary Science

Chair: Edward L. Fitzpatrick, Ph.D.

Office Location: 456A Mendel Science Center

Telephone: (610) 5019-4820

[Website](#)

About

The APS Department offers a major in Astronomy & Astrophysics, leading to a Bachelor of Science degree. The major combines rigorous academic preparation with a strong research component, which usually culminates in the presentation of original research results at national astronomical conferences. The program is designed to prepare students for graduate studies in astronomy and related fields. In addition, and due to the strong and balanced Liberal Arts education, the Astronomy & Astrophysics major provides outstanding preparation for careers in science journalism and science education, as well as for essentially any technically based career.

Research facilities utilized by staff and students in the APS Department include a high-speed computing facility and a suite of computer-controlled telescopes located on the roof of Mendel Science Center. In addition, the Department is a member of the Robotically Controlled Telescope consortium, which operates a 1.3 meter telescope located at Kitt Peak National Observatory. Students also have access, via faculty research programs, to state-of-the-art

astronomical data from NASA- supported facilities such as the Hubble Space Telescope and the Spitzer Space Telescope, and a variety of national and international ground-based facilities.

MAJOR (86 credits)

The major consists of 86 credits, including courses in astronomy, physics, mathematics, and computer science. Students completing the major will also qualify for a minor in physics.

Required Courses:

- AST 2120: Sun and Stars (3 cr)
- AST 2121: Solar System Anatomy (3 cr)
- AST 2122: Understanding Our Universe (3 cr)
- AST 2123: Astrodynamics – Kepler & Beyond (3 cr)
- AST 2133: Observational Lab I (2 cr)
- AST 2134: Observational Lab II (2 cr)
- AST 3141: Galactic Astronomy (3 cr)
- AST 3142: Intro to Astrophysics (3 cr)
- AST 3143: Astrobiology, Planets, & Life (3 cr)
- AST 3148: The Principles of Scientific Modeling (3 cr)
- AST 4121: Undergraduate Research I (3 cr)
- AST 4122: Undergraduate Research II (3 cr)
- CSC 4630: Computer Graphics (3 cr)
- MAT 1500: Calculus I (3 cr)
- MAT 1505: Calculus II (3 cr)
- MAT 2500: Calculus III (3 cr)
- MAT 2705: Differential Equation with Linear Algebra (4 cr)
- PHY 2410 & 2411: University Physics - Mechanics (3 cr) & Lab (1 cr)
- PHY 2412 & 2413: University Physics – Elec & Magnetism (3 cr) & Lab (1 cr)
- PHY 2414 & 2415: University Physics: Thermo (3 cr) & Lab (1 cr)
- PHY 2416 & 2417: Modern Physics (3 cr) & Lab (1 cr)
- PHY 2601: Computational Physics Lab I (1 cr)
- PHY 2603: Computational Physics Lab II (1 cr)
- PHY 4100: Mechanics I (3 cr)
- PHY 4200: Mathematical Physics I (3 cr)
- Three additional PHY courses numbered above 3000 (9 cr)

MINOR (24-27 credits)

A minor is open to all students and requires 9 courses and a minimum of 24 credits.

Required Courses:

- AST 2120: Sun and Stars (3 cr)
- AST 2121: Solar System Anatomy (3 cr)
- AST 2122: Understanding Our Universe (3 cr)
- MAT 1310
- MAT 1315
- One physics course. Choose from:
 - PHY 1100: General Physics I (3 cr)
 - PHY 2400: Physics I (3 cr)
 - PHY 2402: Physics II (3 cr)
- Two additional courses. Choose from:
 - AST 2123: Astrodynamics – Kepler & Beyond (3 cr)

- AST 2133: Observational Lab I (2 cr)
- AST 2134: Observational Lab II (2 cr)
- AST 3141: Galactic Astronomy (3 cr)
- AST 3142: Intro to Astrophysics (3 cr)
- AST 3143: Astrobiology, Planets, & Life (3 cr)
- AST 3148: The Principles of Scientific Modeling (3 cr)

Biochemistry

Program Directors: Jennifer Palenchar, PhD., Dennis Wykoff, PhD

Office Location: Mendel Science Center Rm. 215

Telephone: (610) 519-4840

[\[Website\]](#)

About

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

MAJOR (72 credits)

Students are accepted into the major as incoming freshmen, or upon consultation with a program director when achieving a 2.0 or better in required courses.

Required Major Courses:

- CHM 1000: 1000 Professional Development Seminar (1 cr)
- CHM 1151 & 1103: General Chemistry I (4 cr) & Lab (1 cr)
- CHM 1152 & 1104: General Chemistry II (4 cr) & Lab (1 cr)
- CHM 2211 & 2201: Organic Chemistry I (3 cr) & Lab (1 cr)
or CHM 3211 & 3201: Organic Chemistry I (3 cr) & Lab (1 cr)
- CHM 2212 & 2202: Organic Chemistry II (3 cr) & Lab (1 cr)
or CHM 3212 & 3202: Organic Chemistry II (3 cr) & Lab (1 cr)
- CHM 3417: Biophysical Chemistry (3 cr)
- CHM 3514 & 3503: Bioanalytical Chemistry (3 cr) & Lab (1 cr)
- CHM 4603: Biochem Tech. and Pract (1 cr)
- CHM 4604: Biochem Tech. and Pract II (1 cr)
- CHM 4621: Biochemistry I: Structure (3 cr)
- CHM 4622: Biochemistry II: Metabolism (3 cr)
- CHM 4623: Biochemistry III (3 cr)
- BIO 2105: General Biology I (4 cr)
- BIO 3351: Genetics (4 cr)
- BIO 4505: Molecular Biology (4 cr)
- MAT 1500 & 1505: Calculus I (3 cr) & Calculus II (3 cr)
- PHY 2410 & 2411: University Physics - Mechanics (3 cr) & Lab (1 cr) or PHY 1100 & 1101: General Physics I (3 cr) & Lab (1 cr)
- PHY 2412 & 2413: University Physics – Elec & Magnetism (3 cr) & Lab (1 cr) or PHY 1102 & PHY 1103: General Physics II (3 cr) & Lab (1 cr)
- One chemistry elective from the approved list (3 cr)
- One biology elective from the approved list (3 cr)

MINOR (23 credits)

The Biochemistry minor requires 23 credits not including pre-requisite coursework.

Required Courses:

- BIO 2105: General Biology I (4 cr)
- BIO 3351: Genetics (4 cr)
- BIO 4505: Molecular Biology (4 cr)
- CHM 4603: Biochem Tech. and Pract. (1 cr)
- CHM 4604: Biochem Tech. and Pract II (1 cr)
- CHM 4621: Biochemistry I: Structure (3 cr)
- CHM 4622: Biochemistry II: Metabolism (3 cr)
- CHM 4623: Biochemistry III (3 cr)

Program Notes:

- The Biochemistry program offers three mechanisms for participation in research by undergraduate majors. Competitive fellowships for 8-10 weeks of summer research are funded by University, government, or industrial sources. Recipients of these fellowships carry out a research program under the direction of a faculty member. Students may also enroll in research mentored by a faculty member for academic credit during the school year, which fulfills the elective requirement in the relevant department (CHM 4801, 4802, 4803, 4851, 4851 or BIO 6509, 6609). Students may also volunteer in research laboratories. In each case, students should discuss participation in research with Program of Biochemistry faculty members.

Biology

Chair: John M. Olson, Ph.D.

Office Location: 147 Mendel Science Center

Telephone: 610-519-4832

[Website](#)

About

Biology is a broad-based program designed for students interested in life sciences. The program fulfills entry requirements for medical and other allied health programs as well as for graduate work in many areas of biology and related fields. The program also provides excellent preparation for careers in health sciences, research, and/or education.

MAJOR (70 credits)

The biology major requires 70 credits with at least five biology laboratory courses at the 3000-level and higher.

Required Major Courses:

- BIO 2105: General Biology I (4 cr)
- BIO 2106: General Biology II (4 cr)
- BIO 3351: Genetics (4 cr)
- BIO 5300: Biology Capstone (3 cr)
- One BIO laboratory course above the 3000 level in Organismal Biology (4 cr)

- One BIO laboratory course above the 3000 level in Ecology/Evolutionary/Population Biology (4 cr)
- One BIO laboratory course above the 3000 level in Cellular/Molecular Biology (4 cr)
- Two additional BIO laboratory courses above the 3000 level (8 cr)
- Two additional credits fulfilled either through a research experience or another approved course.* (2 cr)

Required Cognate Courses:

- CHM 1151 & 1103: General Chemistry I & Lab (4 cr)
- CHM 1152 & 1104: General Chemistry II & Lab (4 cr)
- CHM 2211 & 2201: Organic Chemistry I & Lab (3 cr)
- CHM 2212 & 2202: Organic Chemistry II & Lab (3 cr)
- MAT 1312: Biocalculus (4 cr)
- One additional MAT course. Choose from:
 - MAT 1313: Statistics for Life Sciences (3 cr)
 - MAT 1314: Modeling for the Life Sciences (3 cr)
 - MAT 1505: Calculus II (3 cr)
 - MAT 4310: Stat Methods (3 cr)
- PHY 1100 & 1101: General Physics I & Lab (4 cr)
- PHY 1102 & 1103: General Physics II & Lab (4 cr)

Program Notes:

- Combined BS/MS in Biology: Five-year double degree program. See departmental website for details regarding admission, requirements, the program of study, etc.
- Research opportunities: Undergraduate majors may opt to work with faculty to complete undergraduate research either informally or more formally in a senior or honors thesis project.
- *Refer to the University course catalog for specific courses.

MINOR (23 credits)

A minor is open to all students and requires 23 credits of Biology. Minors must complete at least 12 of their Biology credits at Villanova and achieve a minimum GPA of 2.0.

Required Courses:

- BIO 2105: General Biology I (4 cr)
- BIO 2106: General Biology II (4 cr)
- Three BIO laboratory courses above the 3000 level (12 cr)
- Additional Biology elective course numbered 3000 or above (3 or 4 cr)

Business Minor Options

Villanova School of Business

Associate Director Business Minor Programs: Patricia (Trish) Burdo

Office Location: Bartley Hall Rm. 1054 [The Clay Center at VSB]

Telephone: (610) 519-5532

[Website](#)

About

There are two options for CLAS students to earn a business minor: The Academic Year Business Minor and the Summer Business Institute. Students considering either of these programs should meet with their primary academic advisor before applying to determine if/how business minor courses may apply to degree or major requirements. Completion of either program may allow students to pursue a discipline-specific business minor or enroll in other VSB courses; VSB approval is required and additional pre-requisite coursework may be necessary.

ACADEMIC YEAR BUSINESS MINOR

The Academic Year Business Minor is designed for full-time undergraduates enrolled in other Villanova colleges. This traditional-year program typically requires four semesters to complete; required courses are part of the VSB core curriculum and are taken alongside VSB students. The admission process for the program is competitive; students must attend an info session prior to applying and are admitted on a yearly basis after spring semester grades are posted. The deadline for applications is May 1; program and application requirements can be found at business.villanova.edu, search *Business Minors for Non-Business Students*.

SUMMER BUSINESS INSTITUTE (SBI)

The Summer Business Institute (SBI) is a 10 week, full-time, on-campus program created exclusively for non-business majors. SBI, using a cohort-based model, is an accelerated program designed to be completed in one summer. The admission process for the program is competitive; students are admitted on a rolling basis. The application period is December 1 – April 15. Additional Information, including the application, can be found at business.villanova.edu/sbi

Chemistry

Chair: Kevin P.C. Minbirole, Ph.D.

Office Location: Mendel Science Center Rm. 215A

Telephone: (610) 519-4840

[Website](#)

About

The Department of Chemistry at Villanova University offers masters and bachelors degrees, including an American Chemical Society accredited degree program for undergraduates. Our faculty actively conduct research in diverse areas such as environmental chemistry, protein biochemistry, fuel cell research, and computational chemistry. We recognize that undergraduate research provides a unique opportunity to work closely alongside a faculty mentor, gaining an experience that extends far beyond typical classroom learning, and we encourage all undergraduates to participate in undergraduate research.

MAJOR (68 credits)

The Chemistry major, certified 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.

Required Major Courses:

- CHM 1000: Professional Development Seminar (1 cr) [Taken twice]
- CHM 1311 & 1301: Inorganic Chemistry I (3 cr) & Lab (2 cr)
- CHM 1512 & 1502: Quantitative Analysis (3 cr) & Lab (2 cr)
- CHM 3211 & 3201: Organic Chemistry I (3 cr) & Lab (2 cr)
- CHM 3212 & 3202: Organic Chemistry II (3 cr) & Lab (2 cr)
- CHM 3311 & 3301: Inorganic Chemistry II (3 cr) & Lab (2 cr)
- CHM 3411 & 3303: Physical Chemistry I (3 cr) & Lab (2 cr)
- CHM 3412 & 3404: Physical Chemistry II (3 cr) & Lab (2 cr)
- CHM 3511 & 3501: Instrumental Analysis (3 cr) & Lab (2 cr)
- CHM 4611 or 4610: Biochemistry (3 cr)
- MAT 1500: Calculus I (4 cr)
- MAT 1505: Calculus II (4 cr)
- PHY 2410 & 2411: University Phy: Mechanics (3 cr) & Lab (1 cr)
- PHY 2412 & 2413: Univ Physics: Elec & Mag (3 cr) & Lab (1 cr)
- Two Chemistry electives (6 cr)
- One Chemistry lab elective (1 cr)

MINOR (31 credits)

To receive the minor, students must complete a written application. Applications for the minor can be obtained from the Administrative Assistant in the Chemistry Office (Mendel 215A). To complete the requirements for a Minor in Chemistry, students must complete all three of the conditions outlined on [this website](#).

Required Courses:

- One year of general chemistry (6 cr) & Lab (≥ 2 cr)
- CHM 2211 & 2201: Organic Chemistry I (3 cr) & Lab (1 cr)
- CHM 2212 & 2202: Organic Chemistry II (3 cr) & II Lab (1 cr)
- Two elective chemistry courses with associated laboratories (8 cr)
- One chemistry elective course (3 cr)

Program Notes:

- All course prerequisites and corequisites apply.
- Biochemistry majors need to complete two CHM courses at the 3000 level or above that are not otherwise required for the biochemistry degree to fulfill the requirements for the Chemistry minor.

Chinese Language and Cultural Studies

Coordinator: HaiLin Zhou, Ph.D.

Office Location: Gary Hall Rm. 036

Telephone: (610) 519-6302

[Website](#)

About

The Chinese Language and Cultural Studies program opens the way to the study of various elements of Chinese life. Chinese Language and Cultural Studies includes the rich heritage of novels, short stories, poetry, culinary art, film and the Chinese classics. Chinese Language and

Cultural Studies represents a cutting-edge intellectual experience that provides its minors with a real advantage in critiquing, understanding, and navigating the global landscape.

MINOR (28 credits)

The Chinese Language and Cultural Studies minor is open to all students and requires 6 courses and 28 credits.

Required Courses:

- CHI 1111: Basic Chinese I (6 cr)
- CHI 1112: Basic Chinese II (6 cr)
- CHI 1121: Intermediate Chinese I (5 cr)
- CHI 1122: Intermediate Chinese II (5 cr)
- Two 3-credit courses in Chinese cultural studies*. Choose from:
 - CHI 1131: Advanced Chinese I (3 cr)
 - CHI 1132: Advanced Chinese II (3 cr)
 - CHI 1133: Advanced Chinese III (3 cr)
 - CHI 1134: Advanced Chinese IV (3 cr)
 - CHI 3412: Chinese Special Topics (3 cr)
 - CHI 3413: Chinese Calligraphy (3 cr)
 - GIS 4281: The Tale of Shanghai and Tokyo (3 cr)
 - GIS 4675-001: East Asian Comparative Studies (3 cr)

Program Notes:

- *Other culture-based courses with ASN attribute found across disciplines also qualify.

Classical Studies

Program Director: Valentina DeNardis, Ph.D.

Office Location: Saint Augustine Center Rm. 304

Telephone: (610) 519-6165

[Website](#)

About

The Classical Studies Program explores the cultures of ancient Greece and Rome, from the beginnings of Greek civilization to the fall of the Roman empire. Our program is interdisciplinary, embracing the study of classical languages, literatures, history, art and archaeology, philosophy and religion. The program offers courses which may satisfy requirements for the Core Curriculum of the College of Liberal Arts and Sciences.

MAJOR (30 credits)

The major requires 10 courses and at least 30 credits.

Required Courses:

- A minimum of one GRK or LAT course, or CLA 2021 (3 cr)
- CLA 6001: Senior Classics Capstone (3 cr)
- Eight additional courses in any combination of courses in the classical languages and/or courses taught in English on classical civilization (24 cr)

FIVE YEAR B.A./M.A PROGRAM:

The five-year B.A./M.A. program allows exceptional students to complete a bachelor's and a master's degree in Classical Studies in five years. In the last year of undergraduate study students take three graduate courses that count towards both their undergraduate and graduate degrees.

MINOR (18 credits)

The minor requires a minimum of 18 credits. Language classes are not required.

Required Courses:

- Six courses in any combination of courses in the classical languages and/or courses taught in English on classical civilization. (18 cr)

Cognitive and Behavioral Neuroscience

Chair: Michael Brown, PhD.

Office Location: Tolentine Hall Rm. 334

Telephone: (610) 519-4722

[\[Website\]](#)

About

The major in Cognitive and Behavioral Neuroscience (CBN) provides an intensive course of study focused on brain-behavior relationships, ranging from genetic to whole brain contributions to behavior and mental processes. The program is excellent preparation for a variety of careers focusing on research and/or practice in neuroscience, medicine, allied health fields, and psychology, as well as for more general careers in areas such as public policy and education.

Students are accepted into Villanova University as declared CBN majors. Therefore, prospective students who are interested in the major should select the CBN program when applying to the University. Students who have already entered Villanova may appeal directly to the Department of Psychological and Brain Sciences for special permission into the major.

MAJOR (65 credits)

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Required Major Courses:

- CHM 1151 & 1103: General Chemistry I (4 cr) & General Chemistry I Lab (1 cr)
- CHM 1152 & 1104: General Chemistry II (4 cr) & General Chemistry II Lab (1 cr)
- BIO 2105: General Biology I (4 cr)
- BIO 2106: General Biology II (4 cr)
- BIO 3351: Genetics (4 cr)
- MAT 1312: Biocalculus (4 cr) or MAT 1500: Calculus I (4 cr)
- MAT 1314: Modeling for the Life Sciences (3 cr) or MAT 1505: Calculus II (4 cr)
- PSY 1000: General Psychology (3 cr) or PSY 1001: Intro to Brain and Behavior (3 cr)
- PSY 2000: Intro Statistics (3 cr)
- PSY 2050: Research Methods in Psychology (3 cr)
- PSY 4200: Biopsychology (3 cr)
- PSY 4500: Cognitive Psychology (3 cr)
- CBN 4000: Cell & Behavioral Neuroscience (3 cr)
- CBN 4100: Cognitive Neuroscience (3 cr)

- CBN 5000: Advanced Lab in Neuroscience (3 cr)
- Four additional CBN approved electives of three credits or more that include courses in Psychological Science, Biological/Life Science, Cognitive Science, or Neuroscience. (12 cr)

Cognitive Science

Program Director: Charles L. Folk, Ph.D.

Office Location: Tolentine Hall Rm 252

Telephone: (610) 579-7464

[Website](#)

About

The Cognitive Science Program offers a course of study in the interdisciplinary field of Cognitive Science, bringing together perspectives from cognitive psychology, computer science, philosophy, and biology to understand how intelligent systems function. An undergraduate concentration and an undergraduate minor are available to all students in undergraduate colleges of the University. The program is particularly well-suited to students majoring in Psychology, Computing Sciences, Philosophy, and Cognitive & Behavioral Neuroscience.

CONCENTRATION (21 credits)

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Required Courses:

- CSC 1051: Algorithms & Data Structures I (3 cr)
- CSC 4500: Artificial Intelligence (3 cr) or CSC 4510: Machine Learning (3 cr) or MSE 2400: Evolution and Learning in Computational and Robotic Agents (3 cr)
- PHI 4610: Philosophy of Mind (3 cr)
- PSY 4500: Cognitive Psychology (3 cr)
- CGS 5900: Cognitive Science Seminar (3 cr)
- Two Cognitive Science approved elective courses of three or more credits (6 cr)

MINOR (15 credits)

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Required Courses:

- Two of the following three options:
 - CSC 4500: Artificial Intelligence (3 cr) or CSC 4510: Machine Learning (3 cr) or MSE 2400: Evolution and Learning in Computational and Robotic Agents (4 cr)
 - PHI 4610: Philosophy of Mind (3 cr)
 - PSY 4500: Cognitive Psychology (3 cr)
- Three Cognitive Science approved elective courses of three or more credits (9 cr)

Program Notes:

- The five courses used to fulfill the Minor must span at least three different disciplines.

Communication

Chair: Heidi Rose, Ph.D.

Office Location: Garey Hall 028

Telephone: (610) 510-4750

[Website](#)

About

Communication shapes who we are, both individually and socially. We in the Communication Department believe our future depends upon our communication with one another. The study of Communication in the liberal arts tradition focuses on the understanding and use of symbols that create meaning in multiple communicative contexts—global and local, personal and professional, in-person and mediated. The discipline of Communication is grounded in ancient rhetorical traditions and is influenced by contemporary intellectual, artistic and technological developments. Our program integrates theory and practice, so that skills-based courses build upon communication principles, concepts, insights, and research techniques. Our mission, then, is to produce well-rounded communicators who will speak eloquently and listen actively; think critically, creatively, and ethically; and write clearly and strategically. Our graduates are placed in top graduate programs and law schools, as well as prepared to build careers in industries from public relations and marketing to media production and print/broadcast/digital journalism. Whether in corporate or nonprofit careers, serving their communities, or engaged in further academic study, our graduates illustrate that students of Communication are uniquely equipped to make a difference locally and globally, in their lives and in the lives of others.

MAJOR (36 credits)

To Declare the Major: Enrollment in COM 1000 and COM 1100, and a minimum 2.5 GPA.

Required Major Courses:

- COM 1000: Survey of Communication Studies (3 cr) [Recommended freshman or sophomore year]
- COM 1100: Public Speaking (3 cr) [Recommended freshman or sophomore year]
- Two 2000-level theories courses [Prerequisites for 3000-level courses]
- Six 3000-level advanced topics courses in at least three different areas [Taken after completing at least one 2000-level, according to interest and/or specialization]
- One COM Research Methods course: Either COM 4001: Qualitative Research in Com (3 cr) OR COM 4002: Quantitative Research in Com (3 cr) [Recommended junior year or prior to taking COM 5050]
- One Capstone: Either COM 5050 Senior Project (3 cr) OR COM 3464 Public Relations Campaigns (for students specializing in PR & Advertising) [Taken during senior year]

Specializations:

Students may choose either to design their own major specialization or will choose one (or more) of the following specializations: Public Relations & Advertising, Journalism, Organizational Communication, Media Studies, Media Production, Rhetorical Studies, Performance Studies, and Interpersonal Communication. With or without a specialization, students must cover three different areas in their six 3000-level courses. A complete listing of specialization requirements and courses is available on the departmental Web page or in the departmental office. Some specializations require Communication majors to complete internships, which, if completed for credit, will be used to satisfy free electives for the College of Liberal Arts and Sciences.

Program Notes:

- Only two courses may be transferred to count towards the COM major.
- Students who plan to study abroad should take COM 1000, 1100, and at least one 2000-level course before going abroad.

MINOR (15 credits)

Students within the College of Liberal Arts & Sciences or Villanova School of Business can minor in Communication by taking five courses.

Required Courses:

- COM 1000: Survey of Communication Studies (3 cr)
- One 2000-level course (3 cr) [Must be taken before taking 3000-level courses]
- One 3000-level course (3 cr)
- Two additional COM courses*

Program Notes:

- *A 3-credit internship focused on communication could satisfy one of these courses.
- Only one course may be transferred to count toward the COM minor.
- Students wishing to minor in Communication from within CLAS or other Villanova colleges/schools are encouraged to contact the Communication Department to learn about ways to build a minor that will complement their major programs of study. For initial information, [visit this website](#).

Comprehensive Science

Program Director: Robert Styer, PhD

Office Location: Saint Augustine Center Rm. 372

Telephone: (610) 519-4845

[Website](#)

About

The Comprehensive Science program allows students interested in the quantitative and physical and life sciences to get broad based competency to a full spectrum of scientific concerns and practices. Our majors gain both hands-on lab skills and quantitative aptitudes through a broad range of courses in mathematics, physical and life sciences, and computer science. The program equips students with the analytical, interpretive, and explanatory skill sets that enable their understanding of the scientific world. The flexible program allows students to create a tailored interdisciplinary program that can prepare the student for a variety of professions or graduate studies. Our majors go on to medical schools, dental schools, and other health related graduate programs, as well as careers as financial analysts, lab researchers, computing, pharmaceutical, and other careers that require a science/math background.

MAJOR (65 credits)

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Required Major Courses:

- BIO 2105: General Biology I (4 cr)
- BIO 2106: General Biology II (4 cr)
- CHM 1151 & 1103: General Chemistry I (4 cr) & Lab (1 cr)

- CHM 1152 & 1104: General Chemistry II (4 cr) & General Chemistry II Lab (1 cr)
- CSC 1051: Algorithms & Data Structures I (4 cr)
- MAT 1500: Calculus I (4 cr)
- MAT 1505: Calculus II (4 cr)
- Two semesters of an approved (science major level) physics with labs (8 cr)
- One semester of a science major level statistics (3 cr)
- One additional approved Mathematics or Computing course (3 cr)
- One science major level capstone course or approved equivalent (3 cr)
- Six approved science electives chosen in consultation with the student's advisor or the program director (18 cr)

Computing Sciences (Computer Science)

Chair: Daniel Joyce, Ph.D.

Office Location: Mendel Science Center Rm. 161

Telephone: (610) 519-7307

[Website](#)

About

The Department of Computing Sciences provides a solid technical education enhanced by the benefits of a liberal arts education. The Department aims to equip students with a solid foundation in computing theory, and to prepare them for lifelong independent learning and innovative thinking in a constantly changing discipline. The department seeks to develop the total person, sensitive to social and ethical concerns affected by the computing discipline and committed to addressing the needs of a diverse and interconnected modern society.

MAJOR (54 credits)

The major consists of 54 credits (18 courses) in computer science, plus additional mathematics, science and philosophy (ethics) requirements. Required courses include program design using Java and C, computer systems, analysis of algorithms, theory of computability, database principles, organization of programming languages, software engineering, computing ethics, and a senior project. Students select four computer science electives and have five free electives.

Required Courses:

- CSC 1990: Enrichment Seminar in Computing (1 cr)
- CSC 1051: Algorithms & Data Structures I (4 cr)
- CSC 1052: Algorithms & Data Structures II (4 cr)
- CSC 1300: Discrete Structures (3 cr)
- CSC 1700: Analysis of Algorithms (3 cr)
- CSC 1800: Organization of Programming Languages (3 cr)
- CSC 2053: Platform Based Computing (3 cr)
- CSC 2300: Statistics for Computing (3 cr)
- CSC 2400: Computer Systems I (3 cr)
- CSC 2405: Computer Systems II (3 cr)
- CSC 4170: Theory of Computation (3 cr)
- CSC 4480: Principles of Database Systems (3 cr)
- CSC 4700: Software Engineering (3 cr)
- CSC 4790: Senior Projects (3 cr)

- PHI 2180: Computer Ethics (3 cr)
- MAT 1500: Calculus I (4 cr)
- MAT 1505 Calculus II (4 cr) or CSC 3300 Linear Algebra for Computing (4 cr)
- Two Natural Science Courses with lab (8 cr)
- Four approved CSC elective courses (12 cr)

MINOR: Computer Science (26 credits)

The computer science minor consists of 8 courses from the requirements for the computer science major. The minor provides a strong foundation in computer science suitable for application to any other major field of endeavor.

Required Courses:

- CSC 1051: Algorithms & Data Structures I (4 cr)
- CSC 1052: Algorithms & Data Structures II (4 cr)
- CSC 1300: Discrete Structures (3 cr)
- CSC 1700: Analysis of Algorithms (3 cr)
- CSC 2400: Computer Systems I (3 cr)
- CSC 4480: Principles of Database Systems (3 cr)
- Two approved CSC elective courses (6 cr)

MINOR: Cybersecurity (26 credits)

Offered jointly through the Department of Computing Sciences and the Electrical and Computer Engineering Department in the College of Engineering, the Cybersecurity Minor provides students with a solid foundation in the principles of cybersecurity. There are multiple paths to the Minor, but all require at least two courses of computer programming, one course of discrete structures, four courses related to information security, and a capstone project course.

CERTIFICATE: Fluency in Information Technology [FIT] (4 courses)

The FIT certificate provides the student with a foundation in computing technology and a connection between that material and their chosen major field. The certificate requires just four courses: Databases for Everyone, 2 elective courses, and a capstone project to connect the computing knowledge to the student's major.

Required Courses:

- CSC 1035: Databases for Many Majors (3 cr)
- CSC 4797: Information Systems Capstone (3 cr)
- Two approved CSC elective courses (6 cr)

Criminology

Program Director: Thomas M. Arvanites, Ph.D.

Office Location: 204 Saint Augustine Center

Telephone: (610) 519-4774

[Website](#)

About

The Criminology major is an interdisciplinary program designed to provide students with an understanding of the causes, social functions, nature and application of criminal law, and societal reactions to criminal law. Criminologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play. Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of our society. Rather than a technical program which focuses on applied skills, our program emphasizes the justice component. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

MAJOR (33 credits)

To declare the Major, a student must have completed Introduction to Criminology (CRM 1001), with a "C+" or higher or have a minimum GPA of 3.0. The Major consists of 33 credits. A student must allow three full semesters after the declaration of the Major to complete all requirements. One of the Criminology electives for the Major can be satisfied by an internship for credit with approval from the Program Director, provided that the student has at least 15 credits toward the Major.

Required Major Courses:

- CRM 1001: Introduction to Criminology (3 cr)
- CRM 5100: Criminological Theory (3 cr; prerequisite: CRM 1001)
- SOC 5300: Data Analysis for Social Scientists (3 cr)
- SOC 5400: Applied Research Methods in Sociology (3 cr)
- CRM 6500: Senior Seminar (3 cr; prerequisites: CRM 5100, SOC 5300 and SOC 5400)
- Five criminology electives (15 cr)
- One sociology elective (3 cr)

Program Notes:

- A student taking an internship in a field setting in the second semester of their junior year or during their senior year should consult with the Program Director.

MINOR (15 credits)

A Minor is open to all students and requires 5 courses and 15 credits. Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the Minor. Minors cannot receive Criminology credit for an internship. Students wishing to earn a Minor in Criminology must fill out an application form available in the office.

Required Courses:

- CRM 1001: Introduction to Criminology (3 cr)
- Four criminology elective courses (12 cr)

Program Notes:

- Only one course may be transferred from another university.

Economics

Chair: Peter Zaleski, Ph.D.

Office Location: 2014 Bartley Hall

Telephone: 610-519-4370

[Website](#)

About

Economics is the science that studies the behavior of social systems – such as markets, legislatures, corporations, and families – in allocating scarce resources. It is a discipline which brings together the diverse worlds of business, social science, and public policy. The study of economics is an excellent preparation leading to many career options. Economics majors are well positioned to be the future managers and leaders in both the private and public sectors. The study of economics at the undergraduate level provides a solid basis for graduate study in the social sciences and for professional study in business administration, law, public administration, and in the health sciences.

MAJOR (33 credits)

Students majoring in Economics should have good analytical skills along with good writing skills. Economic graduates find employment in banking, finance, retail, government, planning, and forecasting. Also, Economics is a perfect preparation for Law School.

Required Major Courses:

- MAT 1430: Business Statistics (4 cr) or MAT 1235: Intro to Statistics II (3 cr)
- ECO 1001: Intro to Microeconomics (3 cr)
- ECO 1002: Intro to Macroeconomics (3 cr)
- ECO 2101: Macro-Economic Theory (3 cr)
- ECO 2102: Micro-Economic Theory (3 cr)
- ECO 3137: Intro to Econometrics (3 cr)
- ECO 4132: Seminar in Economics (3 cr)
- Four courses numbered ECO 3000 or higher (12 cr)

Program Notes:

- A minimum GPA of 2.5 and a minimum grade of B- in ECO 1001 & 1002 are required to declare the economics major. Students not meeting these requirements should discuss with the Chair/Associate Chair of the Economics Department.

MINOR (18 credits)

A minor is open to all students and requires 6 courses and 18 credits.

Required Courses:

- ECO 1001: Intro to Microeconomics (3 cr)
- ECO 1002: Intro to Macroeconomics (3 cr)
- ECO 2101: Macro-Economic Theory (3 cr)
- ECO 2102: Micro-Economic Theory (3 cr)
- Two courses numbered ECO 3000 or higher (6 cr)

Program Notes:

- Calculus (which can be used to satisfy the core) is a prerequisite for ECO 2101 and ECO 2102.

Economics

Chair: Peter Zaleski, Ph.D.

Office Location: 2014 Bartley Hall

Telephone: 610-519-4370

[Website](#)

About

Economics is the science that studies the behavior of social systems – such as markets, legislatures, corporations, and families – in allocating scarce resources. It is a discipline which brings together the diverse worlds of business, social science, and public policy. The study of economics is an excellent preparation leading to many career options. Economics majors are well positioned to be the future managers and leaders in both the private and public sectors. The study of economics at the undergraduate level provides a solid basis for graduate study in the social sciences and for professional study in business administration, law, public administration, and in the health sciences.

MAJOR (33 credits)

Students majoring in Economics should have good analytical skills along with good writing skills. Economic graduates find employment in banking, finance, retail, government, planning, and forecasting. Also, Economics is a perfect preparation for Law School.

Required Major Courses:

- MAT 1430: Business Statistics (4 cr) or MAT 1235: Intro to Statistics II (3 cr)
- ECO 1001: Intro to Microeconomics (3 cr)
- ECO 1002: Intro to Macroeconomics (3 cr)
- ECO 2101: Macro-Economic Theory (3 cr)
- ECO 2102: Micro-Economic Theory (3 cr)
- ECO 3137: Intro to Econometrics (3 cr)
- ECO 4132: Seminar in Economics (3 cr)
- Four courses numbered ECO 3000 or higher (12 cr)

Program Notes:

- A minimum GPA of 2.5 and a minimum grade of B- in ECO 1001 & 1002 are required to declare the economics major. Students not meeting these requirements should discuss with the Chair/Associate Chair of the Economics Department.

MINOR (18 credits)

A minor is open to all students and requires 6 courses and 18 credits.

Required Courses:

- ECO 1001: Intro to Microeconomics (3 cr)
- ECO 1002: Intro to Macroeconomics (3 cr)
- ECO 2101: Macro-Economic Theory (3 cr)
- ECO 2102: Micro-Economic Theory (3 cr)
- Two courses numbered ECO 3000 or higher (6 cr)

Program Notes:

Calculus (which can be used to satisfy the core) is a prerequisite for ECO 2101 and ECO 2102.

Education and Counseling

Chair: Christopher Schmidt, Ph.D.

Office Location: 302 Saint Augustine Center

Telephone: 610-519-4620

[Website](#)

About

The Education and Counseling Department undergraduate offerings include a Major in Secondary Education, two different Minor in Education programs, a Minor in Counseling, and a combined [BA/MA in Education](#). The Secondary Education degree has been approved by the Pennsylvania Department of Education (PDE) to recommend candidates for Level I Certification in order to teach in grades 7 through 12 in Pennsylvania's public schools. Faculty in the department are highly engaged in both theoretical and practical research related to education and counseling.

MAJOR (37 credits)

In addition to demonstrating competence within their chosen academic discipline, as well as fulfilling the College of Arts and Sciences' core curriculum requirements, students participate in a wide variety of classroom field experiences. Such experiences are carefully selected and supervised and always appropriate to both the academic and professional competence of the students.

Required Courses:

- EDU 2201 or 2202: Social Foundations (3 cr)
- EDU 2300: Research Seminar (3 cr)
- EDU 3000: Professional Development in Education (1 cr)
- EDU 3251: Psychology of Learning and Teaching (3 cr)
- EDU 3263: Diversity & Inclusion (3 cr)
- EDU 3264: Introduction to Disability Studies (3 cr)
- EDU 4245: Literacy and English Language Learning (3 cr)
- EDU 4290: Philosophy of Education (3 cr)
- EDU 4291: Student Teaching (9 cr)
- EDU 4292: Seminar (3 cr)

One of the following methods is required depending on concentration:

- EDU 4281: Methods of Teaching English (3 cr)
- EDU 4282: Methods of Teaching Language (3 cr)
- EDU 4283: Methods of Teaching Mathematics (3 cr)
- EDU 4284: Methods of Teaching Science (3 cr)
- EDU 4285: Methods of Teaching Social Studies (3 cr)

Program Notes:

- To be accepted into the major, students must have a 3.0 GPA, 6 credits in English and 6 credits in math.
- Candidates for the major should apply as soon as possible and no later than sophomore year.

EDUCATION MINOR (15 credits)

The minor in Education does not qualify one to teach in Pennsylvania public schools. If a student wishes to continue toward teacher certification after graduation, they will need to complete the coursework and student teaching required to apply for Pennsylvania certification. Students interested in obtaining teacher certification should speak to Education Undergraduate Program Director, Dr. Christa Bialka, to create a plan for moving forward.

Required Courses:

- EDU 2201 or EDU 2202: Social Foundations of Education I/II (4 cr)
- EDU 3251: Psychology of Teaching and Learning (4 cr)
- EDU 3263: Diversity and Inclusion in Education (4 cr)
- EDU 4290: Philosophy of Education (4 cr)
- One elective course* selected from the following list:
 - EDU 2300: Research Seminar in Education (3 cr)
 - EDU 3258: Education and Society in the 1960's (3 cr)
 - EDU 3260: Education and Society in World War II (3 cr)
 - EDU 3262: Education Pearl Harbor to Sputnik (3 cr)
 - EDU 3264: Introduction to Disability Studies (3 cr)
 - EDU 4245: Literacy and English Language Learning (3 cr)
 - EDU 8400*: Critical Perspectives in Special Education (3 cr)
 - EDU 8610: Current Issues in American Education (3 cr)
 - EDU 8654: Policy Analysis (3 cr)
 - EDU 8656: School Law (3 cr)
 - EDU 8664: Politics of Education (3 cr)
 - EDU 8669: Comparative Education (3 cr)
 - EDU 8679: Standards Aligned Systems & Curriculum (3 cr)

Program Notes:

- *Others by approval of Chairperson. Please contact [Rita Siciliano](#) for more information on electives and registering for graduate level courses.

EDUCATION POLICY & LEADERSHIP MINOR (15 credits)

A minor in Educational Policy and Leadership is designed to help students develop an awareness of global issues in education in order to learn how educational institutions can transform and be transformed by society through school policy and leadership. A minor in Educational Policy and Leadership requires at least 15 credits. The minor in Educational Policy and Leadership **does not** lead to Pennsylvania teacher certification or qualify one to teach in Pennsylvania public schools.

Required Courses:

- EDU 3264: Introduction to Disability Studies (3 cr)
- EDU 3277: Urban Education (3 cr) OR 3263: Diversity and Inclusion (3 cr)
- EDU 3253 OR 8654*: Policy Analysis (3 cr)
- Elective courses* including six (6) credits from the following list:

- EDU 2201 OR EDU 2202: Social Foundations of Education I/II (3 cr)
- EDU 2300: Research Seminar in Education (3 cr)
- EDU 3251: Psychology of Teaching and Learning (3 cr)
- EDU 4290: Philosophy of Education (3 cr)
- EDU 4245: Literacy and English Language Learning (3 cr)
- EDU 8610: Current Issues in American Education (3 cr)
- EDU 8656: School Law (3 cr)
- EDU 8664: Politics of Education (3 cr)
- EDU 8669: Comparative Education (3 cr)
- EDU 8679: Standards Aligned Systems & Curriculum (3 cr)

Program Notes:

- *Others by approval of Chairperson. Please contact [Rita Siciliano](#) for more information on electives and registering for graduate level courses.

COUNSELING MINOR (15 credits)

The Minor in Counseling exposes students to knowledge of the field of counseling and the counseling process, evidence-based therapeutic practices, and the application of counseling skills. The minor is not intended to replace graduate level professional training, but to prepare students for entry level helping careers, for advanced graduate work, or to complement coursework from a variety of majors.

Required Courses:

- COU 2000: Introduction to Counseling (3 cr)
- COU 3000: Counseling Theory & Skills (3 cr)
- COU 3500: Developmental Perspective to Diagnosis (3 cr)
- COU 3100: Group Counseling OR COU 3700: Family & Couples Counseling (3 cr)
- COU 2500: Counseling Women OR COU 3400: Culturally Competent Counseling (3 cr)

Program Notes:

Students interested in declaring the counseling minor must have a minimum GPA of 3.0

English

Chair: Heather Hicks, Ph.D.

Office Location: 402 Saint Augustine Center

Telephone: 610-519-4630

[\[Website\]](#)

About

The English department believes that skillful, self-conscious reading, writing, and thinking provide a foundation for meaningful living. We seek to develop forms of analysis and expression that are both critical and creative and that help us comprehend the multiple cultural practices and values of the twenty-first century. Villanova English majors acquire a broad understanding of Anglophone literary history as well as familiarity with the major genres of the tradition. A department of accomplished scholars, we focus on undergraduate education and make our majors the center of pedagogy. While preserving the value of literature as a cultural form, we cultivate in our students the analytical skills necessary for negotiating today's rapidly changing world.

MAJOR (33 credits)

English majors take a range of courses, from required courses (chosen from a number of possibilities) that provide a sense of the historical range and diversity of literature in English to electives covering contemporary writers, film, creative writing, and many more topics. Students can also form tracks (such as Professional Writing, World Literature, or Race and Ethnicity) within the major. English courses are particularly well-suited to helping students become better readers, writers, and analytical thinkers; because of those skills, and because of the breadth of literature, English courses are valuable in all aspects of our lives.

Required Courses:

- Two courses in British/Irish literature before 1800, in two different areas (6 cr)
 - Medieval: ENG 2450, 3000, 3101, 3150, 3190/91/92, 3200
 - Renaissance: ENG 3201, 3230, 3250, 3290/91/92, 3300, 3350
 - Restoration & 18th Century: English 3350, 3420, 3430, 3450, 3490/91/92
- Two courses in literature primarily after 1800. One course must be British/Irish and the other American. One course must be 19th Century literature and one must be literature after 1900 (6 cr)
 - British/Irish 19th Century: ENG 3501, 3502, 3504, 3505, 3506, 3520, 3525, 3590/91/92
 - British/Irish After 1900: ENG 2460, 2470, 2500, 3610, 3615, 3616, 3620, 3621, 3630, 3690/91/92
 - American to 1900: ENG 2501, 2710, 4001, 4501, 4505, 4510, 4520, 4530, 4540, 4590/91/92, 4500, 4515
 - American after 1900: ENG: 2301, 2502, 2505, 2510, 2515, 2520, 2530, 2720, 4002, 4040, 4500, 4515, 4605, 4615, 4619, 4620, 4621, 4630, 4631, 4635, 4636, 4640, 4645, 4646, 4650, 4690/91/92
- ENG 2250: [Junior Research Seminar] (3 cr)
- ENG 5000: [Senior Seminar] (3cr)
- Five elective courses numbered 1800 and above, with the exception of 1975, which cannot be counted, and with the partial exception of the British Literary Tradition and American Literary Tradition courses (2101, 2102, 2103, 2104); a student may count only two of those courses towards the major (15cr).

Program Notes:

- There is no prerequisite to the major, but we strongly recommend that you take English 2101 (The British Literary Tradition I) early, since it will introduce you to writers, texts, and issues that are crucial to most subsequent courses.

ENGLISH MINOR (15 credits)

To complete an English Minor, you take five English courses (15 credits) numbered 2000 or higher.

Required Courses:

- At least one course must come from the British/Irish literature offerings. All 3000-level courses count, as well as ENG 2101 and 2102 [The British Literary Tradition I and II] (3 cr)
- At least one course must come from the American literature offerings. All 4000-level courses count, as well as ENG 2103 and 2104 [The American Literary Tradition I and II] (3 cr)
- The other three courses may be literature courses (ENG 2100-5000), courses that focus primarily on writing and rhetoric (ENG 2000-2099), or both (9 cr)

Program Notes:

- *At least three of these courses must be taken at Villanova.*

Environmental Science

Chair: Nathaniel Weston, Ph.D.

Program Director: Steven Goldsmith, Ph.D.

Office Location: Suite G67, Mendel Science Center

Telephone: 610-519-3336

[\[Website\]](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has three teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

MAJOR (69 credits)

The B.S. in Environmental Science Program provides the technical background necessary for understanding the biological, chemical, and physical aspects of the environment. It focuses on the application of biological, chemical and physical principals to understanding the natural and physical environments of the Earth. Towards this end, the program's graduates will have an understanding of and appreciation for the processes and interactions that occur both within and between the atmosphere, the biosphere, the lithosphere, and the hydrosphere. The program is founded on the principle that science – both as a body of knowledge and as a process that is grounded in intellectual inquiry and the scientific method – must be applied to assess the direct and indirect influences of human activities on the integrity of the Earth's systems.

Required Major Courses:

- GEV 1050 and 1051: Environmental Science I & II w/ Laboratory (8 cr)
- GEV 1750: Introduction to Geo-Techniques w/ Laboratory (4 cr)
- GEV 2310: Environmental Chemistry w/ Laboratory (4 cr)
- GEV 3300: Statistics for Environmental Science (3 cr) *(BIO 3105 or MAT 4310 may fulfill this requirement)*
- GEV 4700: Geographic Information Systems w/ Laboratory (4 cr)
- GEV 4310: Environmental Issues Seminar (3 cr)
- CHM 1151/1103: General Chemistry I w/ Laboratory (5 cr)
- PHY 1100/1101: Physics I] w/ Laboratory (4 cr)
- MAT 1500: Calculus I (4 cr) *(MAT 1310 may fulfill this requirement)*
- GEV 6005: Senior Research Seminar (1 cr)
- GEV 6006: Environmental Colloquium (0 cr) *(Must be taken total of three times prior to graduation)*
- GEV 6200: Independent Study (3 cr) **OR**

- GEV 6210 and 6220: Senior Thesis I & II (6 cr – 3 cr of which count as a free elective)
- Two Environmental Science Lab Courses from the following: GEV 4320, 4321, 4322, 4323, 4324, 4325, 4326, 4327, 4328, 4329 (8 cr) (*BIO or CHM lab courses >2000 may fulfill this requirement*)
- Additionally, the major requires:
 - Four science and technology electives (*may include appropriate courses in other departments*)
 - Two policy and management electives
 - Ten free electives

Program Notes:

Consider course offerings with environmental content when selecting the ten free electives.

Environmental Studies

Chair: Nathaniel Weston, Ph.D.

Program Director: Steven Goldsmith, Ph.D.

Office Location: Suite G67, Mendel Science Center

Telephone: 610-519-3336

[\[Website\]](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has three teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

MAJOR (56 credits)

The B.A. in Environmental Studies program focuses on the interface between environmental science and relevant social sciences, including public policy, political science, law, economics, sociology, and planning. Towards this end, the program's graduates will have a fundamental understanding of the biological, chemical, and physical principles that underlie the structure and function of the natural and physical environments of the Earth coupled with a foundation in the social sciences that underlie the relationships between humans, as individuals and/or societies, and the natural and physical environments of Earth. The program is founded on the principle that the social sciences – both as a bodies of knowledge and as the bases for structuring human societal norms and behaviors – must be applied to assess and to address the direct and indirect influences of human activities on the integrity of the Earth's systems.

Required Major Courses:

- GEV 1050 and 1051: Environmental Science I & II w/ Laboratory (8 cr)
- GEV 1750: Introduction to Geo-Techniques] w/ Laboratory (4 cr)

- GEV 2310: Environmental Chemistry] w/ Laboratory (4 cr)
- GEV 3300: Statistics for Environmental Science (3 cr) [*BIO 3105 or MAT 4310 may fulfill this requirement*]
- GEV 4700: Geographic Information Systems w/ Laboratory (4 cr)
- GEV 4310: Environmental Issues Seminar (3 cr)
- CHM 1151/1103: General Chemistry I w/ Laboratory (5 cr)
- PHI 2121: Environmental Ethics (3 cr)
- GEV 6005: Senior Research Seminar (1 cr)
- GEV 6006: Environmental Colloquium (0 cr) (*Must be taken total of three times prior to graduation*)
- GEV 6200: Independent Study (3 cr) **OR**
 - GEV 6210 and 6220: Senior Thesis I & II (6 cr – 3 cr of which count as a free elective)
- Additionally, the major requires:
 - Four science and technology electives (*may include appropriate courses in other departments*)
 - Two policy and management electives
 - Two environmentally-related social science and humanities electives (*fulfills two course core curriculum requirement*)
 - Twelve free electives

Program Notes:

Consider course offerings with environmental content when selecting the twelve free electives.

Ethics

Program Director: Mark Doorley, Ph.D.

Associate Director: Brett T. Wilmot, Ph.D.

Office Location: 104 Saint Augustine Center

Telephone: 610-519-4692

[\[Website\]](#)

About

The Ethics Program provides a minor that is available to students in all of the University's undergraduate colleges. This offers students the opportunity to pursue in depth an intellectual discipline that studies human character and conduct – whom we ought to be and what we ought to do. The minor promotes a greater understanding of ethics as a discipline from the theological and philosophical perspectives, and contributes to Villanova's character as a Catholic, Augustinian university.

MINOR (18 credits) (Beginning with Class of 2023)

Villanova University prides itself on presenting an educational alternative built around a clear ethical core, in particular, the moral teachings of the Catholic intellectual tradition. The ethics minor allows students to pursue the study of ethics explicitly and in depth as part of their undergraduate education. The minor contributes directly to the mission of the university. A focus on a particular set of questions/issues within ethics not only benefits students' intellectual and moral development and contributes to the public perception of the university but also has

tangible benefits for students as they apply for graduate studies, fellowships, and job on completion of their studies.

Required Minor Courses

- ETH 2050: The Good Life: Eth & Cont Prob (3 cr) – Grade of B or better
- ETH 30xx: Ideally in one’s focus area (3cr)
- Two required courses in the focus area (6 cr)
- Two elective courses in the focus area (6 cr)
- An e-portfolio that highlights the work they have done in Ethics (including ETH 2050)

Program Notes

- Students choose a focus of study and pursue courses listed below, in consultation with their Ethics faculty advisor
- Each semester the upper-level courses that will count toward the minor will be marked in the Master Schedule, in the Attributes section with “Fulfills ethics minor requirement.” These will also be listed on the Ethics Program website. It is important for students to be sure they take the upper level courses that are affiliated with their focus of study.
- The ETH 30xx courses will be planned five semesters in advance so that students will know what will be offered in future semesters, for planning purposes. This information will be available on the Ethics Program website.
- Students are able to do service work in lieu of one of their elective courses in all focus areas. The service must be related to their focus of study, amount to at least 60 hours of service, and not be credit-bearing or paid work. Students will register for ETH 4975 Ethics Independent Study (3 cr) and must complete their service and associated assignments in that same semester. Students must get approval of their service site from the Associate Director of the Ethics Program.

Focus One: Business

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one’s focus of study] (3 cr)
 - PHI 2500: Philosophy of Exchange (3 cr)
 - THL 4320: Markets & Morality (3 cr)
- Electives (select 2)
 - PHI 2450: Catholic Social Teaching (3 cr)
 - ECO 3108: Global Political Economy (3 cr)
 - HON 3150: The Goods and the Good Life (3 cr)

Focus Two: Bioethics

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one’s focus of study] (3 cr)
 - PHI 2115: Ethics for Health Care Professionals (3 cr)
 - THL 4200: Ethics of Life & Death (3 cr) **OR**
 - THL 4980: Intro. To Bioethics (3 cr)
- Electives (select 2)
 - PHI 2117: The Good Doctor (3 cr)
 - SOC 3400: Medical Sociology (3 cr)
 - HIS 4527: History of Disease (3 cr)
 - BIO 3351 Genetics (3 cr)

Focus Three: Politics and Identity

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one's focus of study] (3 cr)
 - PJ 2800: Race, Class & Gender (3 cr)
 - ETH 3050: Politics and Religion (3 cr)

- Electives (select 2)
 - Three Intergroup Relations Seminars (3 one credit courses)
 - PHI 2400: Social & Political Philosophy (3 cr)
 - PHI 2420 Philosophy of Women (3 cr)
 - PHI 2450 Catholic Social Thought (3 cr)
 - THL 3740 Liberation Theologies (3 cr)

Focus Four: War & Peace

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one's focus of study] (3 cr)
 - PHI 2160: Ethics of War (3 cr)
 - PJ 2700: Peace & Peacemakers (3 cr)

- Electives (select 2)
 - ROTC Military Science course on ethics (3 cr)
 - PSC 2260: War & Conflict (3 cr)
 - PHI 2450: Catholic Social Thought (3 cr)
 - PHI 2400: Social & Political Philosophy (3 cr)

Focus Five: Environment

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one's focus of study] (3 cr)
 - PHI 2121: Environmental Ethics (3 cr) **OR**
 - THL 4330: Christian Environmental Ethics (3 cr)
 - PJ 2200: Caring for the Earth (3 cr) **OR**
 - PJ 5000: Growing Into Justice through Agriculture (3 cr)

- Electives (select 2)
 - GEV 2525: Population Geography (3 cr)
 - GEV 2500: Global Change in Local Places (3 cr)
 - HIS 2276: American Environmental History (3 cr)

Focus Six: Science & Technology

- Required
 - ETH 3xxx: [an Ethics elective, ideally related to one's focus of study] (3 cr)
 - PHI 2180: Computer Ethics (3 cr) **OR**
 - PHI 2170: Media Ethics (3 cr)
 - PHI 2155: Engineering Ethics (3 cr)

- Electives (select two)
 - PHI 2550: Technology & Society (3 cr)
 - PHI 2700: Philosophy of Science (3 cr)

- PHI 2121: Environmental Ethics (3 cr)

French and Francophone Studies

Program Director: Étienne Achille, Ph.D.

Office Location: 343 Saint Augustine Center

Telephone: 610-519-5468

[\[Website\]](#)

About

The French and Francophone Studies Program (FFS) of the Department of Romance Languages and Literatures offers a major and a minor. FFS emphasizes language skills and offer interdisciplinary studies in the faculty's area of specialization: French literature and civilization; the evolution of Western thought in France; the cultures and literatures of the Francophone world; and stylistics and translation. The influence of French language and literature crosses centuries as well as geographic boundaries. Francophone studies is a dynamic and rapidly expanding field, focusing on the literatures, politics, history, cultures, language, identities and related studies of French-Speaking countries. Villanova's interdisciplinary FFS have been designed to provide students with a thorough grounding in the history, politics, cultural production, sociolinguistics, post-colonial experiences, and development of Francophone Countries.

MAJOR (31 credits)

The Major consists of 31 FFS credits above the intermediate level (FFS 1122), including courses in literature, cinema, and cultural studies. Students may obtain up to 6 credits through the Villanova summer program in Lille, France, and up to 9 credits through the semester program.

Required Major Courses:

- FFS 1138: Advanced Grammar **OR** FFS 1140: Writing and Stylistics (3 cr)
- FFS 2220: Literature and Culture of France **OR**
FFS 2221: Literature and Culture of the Francophone World (3 cr)
- FFS 3971: Directed Research in FFS (1 cr) *Taken in conjunction with any 3000-level course*
- Any FFS courses above the intermediate level (FFS 1122) totaling 24 credits.

Program Notes:

- One RLL course taught in English with FFS attribute may be accepted for the major.

MINOR (12 credits)

A minor is open to all students and requires 4 courses above intermediate level (FFS 1122).

Required Courses:

- FFS 1131: Conversation and Composition I (3 cr)
- FFS 1132: Conversation and Composition II (3 cr)
- Two FFS electives above the Conversation and Composition level (6 cr)

Program Notes:

- No course in English may count for the minor.

Gender and Women's Studies

Co-Directors: Travis Foster, Ph.D. and Shauna MacDonald, Ph.D.

Office Location: 488 Saint Augustine Center

Telephone: 610-519-450

[\[Website\]](#)

About

Gender and Women's Studies offers a major and a minor under the Department of Global Interdisciplinary Studies. It is an interdisciplinary field that continually asks us to rethink history, culture, and identity. In the twenty-first century it continues to transform scholarship and fundamental assumptions in all areas of the humanities, social and natural sciences, and the professions. Because gender and sexuality are fundamental to the ways men and women understand themselves, a major and minor in GWS can substantially enhance practically any other field of study, and helps its graduates navigate the work force they are preparing to enter.

MAJOR (30 credits)

The major in Gender and Women's Studies provides an interdisciplinary and comparative approach to deepen students' understandings of the history, culture, religion, politics, literature, and society. Students sign up for the major and choose their specialization through the Department of Global Interdisciplinary Studies. The GIS chair and GWS Academic Director will work closely with each student to develop their individual interests, abilities, and career goals while fulfilling the requirements for the major.

Required Major Courses:

- GIS 2000: [Introduction to Global Interdisciplinary Studies] (3 cr)
- GWS 2050: [Introduction to Gender Studies] (3 cr)
- GWS 3000: [Research Seminar in Feminist Theory] (3 cr)
- GWS 5000: [Integrating Seminar] (3 cr)
- Six Electives with the GWS attribute (one of which should be a GIS-GWS team-taught Select Course) (18 cr)

MINOR (18 credits)

The minor is open to all students and requires 2 courses and 4 electives for a total of 18 credits. Student may choose their four electives from any GWS-attributed courses that are available in a variety of disciplines.

Required Courses:

- GIS 2050: [Introduction to Gender Studies] (3 cr)
- GIS 5000: [Integrating Seminar] (3 cr)
- Any 4 courses with the GWS-attribute (12 cr)

Geography

Chair: Nathaniel Weston, Ph.D.

Program Director: Stephen Strader, Ph.D.

Office Location: Suite G67, Mendel Science Center

Telephone: 610-519-3336

[\[Website\]](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has three teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and equipment.

MAJOR (36 credits)

The B.A. in Geography provides a well-rounded and useful education and marketable skills to students with interests in the spatial patterns of society and the environment. It focuses on the interactions of humans with the natural and physical environments of Earth from a special perspective. Towards this end, the program's graduates will have a fundamental understanding of the human social dynamics and physical patterns and processes at the Earth's surface, such as globalization, climatic variation and natural disasters within the context of places, landscapes, and regions. Graduates will also be trained in the use of geospatial technologies as tools in addressing many modern concerns. The program is founded on the principle that geographical knowledge of place, space, and scale can provide essential insights into contemporary social and environmental issues and variation in human cultures and behaviors, and promotes the idea that such insight is critical to managing the Earth at local, regional and global scales.

Required Major Courses:

- GEV 1002: Geography of a Globalizing World (3 cr)
- GEV 1003: Geography of Earth's Environments (3 cr)
 - A 1000-level topics course may substitute for either GEV 1002 or 1003
- GEV 1750: Introduction to Geo-Techniques w/ Laboratory (4 cr)
- GEV 2500: Global Change in Local Places (3 cr)
- GEV 4700: Geographic Information Systems w/ Laboratory (4 cr)
- GEV 6005: Senior Research Seminar (1 cr)
- GEV 6200: Independent Study (3 cr) **OR**
 - GEV 6210 and 6220: Senior Thesis I & II (6 cr- 3cr of which count as a free elective)
- One Regional Perspectives course from among the following:
 - GEV 3500: Geography of North America (3 cr)
 - GEV 3510: Geography of Europe and the European Union (3 cr)
 - GEV 3515: Geography of Africa (3 cr)
 - GEV 3520: Geography of the Middle East (3 cr)
 - GEV 3525: Geography of Asia (3 cr)
- One Geospatial Technology course from among the following:
 - GEV 3521: GIS for Urban Sustainability (3 cr)
 - GEV 3750: Remote Sensing (3 cr)
- Three Geography Electives above 2000 (9 cr)

- Fifteen Free Electives

MINOR (16 credits)

The geography minor is open to all students and requires 5 courses and 16 credits, and it is designed for students who wish to deepen and broaden their knowledge of the world with a distinctive yet flexible program of courses encompassing the relationship between the environment and society. The minor enables students to develop a coherent strategy for understanding and explaining the manner in which people and the Earth interact.

Required Minor Courses:

- GEV 1002: Geography of a Globalizing World (3 cr) **OR** GEV 1003: Geography of Earth's Environments (3 cr)
- GEV 4700: Geographic Information Systems w/ Laboratory (4 cr)
- One Regional Perspectives course from among the following:
 - GEV 3500: Geography of North America (3 cr)
 - GEV 3510: Geography of Europe and the European Union (3 cr)
 - GEV 3515: Geography of Africa (3 cr)
 - GEV 3520: Geography of the Middle East (3 cr)
 - GEV 3525: Geography of Asia (3 cr)
- Two Geography Electives above 2000 (6 cr)

Global Interdisciplinary Studies (GIS)

Chairperson: Chiji Akoma, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Department of Global Interdisciplinary Studies (GIS) provides students with a tripartite of skills, knowledge, and values that foster critical thinking, problem solving, and preparation for responsible global citizenship. Students gain an understanding of global studies, acquiring the know-how in global and digital literacy, cultural diversity and intercultural competences, interdisciplinary research, and a passion for social justice, nurtured in experiential learning.

MAJOR (31-34 credits)

The central dynamic of the GIS major is the emphasis on the interdisciplinary and the global through a specialization in one of the following areas and thematic studies, namely: Africana Studies, Arab & Islamic Studies, Asian Studies, Cultural Studies, Irish Studies, Latin American Studies, and Russian Area Studies. A student may also consider an Individually Designed Specialization after meeting some requirements, including meeting with the Chair of the department. Each specialization emphasizes the core tenets of the major: Interdisciplinary research, global impact through the local, and the application of knowledge to world affairs.

Required Major Courses:

- GIS 2000: Introduction to Global Interdisciplinary Studies (3 cr)
- GIS 5011: Team-taught Topics Student takes two different topics, the first of which counts as the Junior Research Seminar for the Major (6 cr)
- GIS 6500: Senior Capstone 1: Research (3 cr)

- GIS 6600: Senior Capstone 2: Thesis (3 cr)
- GIS 5000: Special Topics (1 cr)
- One semester of Study Abroad
- One specialization from those listed below (15-18 cr)

Program Notes:

- **Seven Area Specializations:**
 - GIS offers seven specializations in interdisciplinary areas of study – Africana Studies, Arab and Islamic Studies, Asian Studies, Cultural Studies, Irish Studies, Latin American Studies, and Russian Area Studies. The additional requirements of each specialization are listed below. Students must indicate their specialization at the time of declaring the GIS major.
- **Individually Designed Specialization:**
 - A student may opt to design a 15-credit specialization of their choosing. This specialization must be proposed at the declaration of the major, with a clear rationalization for all selected courses. The proposal must be approved by a faculty mentor and the Department Chair and include at least three courses regularly offered at Villanova University.
- The Department of Global Interdisciplinary Studies also offers minors in the following programs: Arabic Language and Cultural Studies, Chinese Language and Cultural Studies, Japanese Language and Cultural Studies, Russian Language and Cultural Studies. Visit these individual pages to view requirements.

GIS: Africana Studies (18 credits) (GAFR)

Six courses with the AFR attribute for a minimum of 18 credits, of which the following must be included:

Required Courses:

- AFR 3000: Constructs of Blackness (3 cr)
- One course in either Africana History or Literature: HIS 2292, 2293, ENG 2501, 2502, 2530, 3690

Program Notes:

- Students may also combine three 1-credit IGR courses to count as one of the undesignated Africana courses
- Courses taken as part of a study abroad program may be counted
- A GIS 5011 with AFR attribute may be counted among the six courses, as long as the two required GIS 5011 courses for the GIS major have been fulfilled.

GIS: Arab and Islamic Studies (15 credits) (GAIS)

Five courses with the AIS attribute for a minimum of 15 credits, of which the following must be included:

Required Courses:

- Two courses of Arabic at the intermediate or above level (6-10 cr)
- One Political Science course with an AIS attribute (3 cr)
- One History course with an AIS attribute (3 cr)
- One Theology course with an AIS attribute (3 cr)

Program Notes:

- Courses taken as part of a study abroad may be counted.

GIS: Asian Studies (15 credits) (GASN)

Five courses with the ASN attribute for a minimum of 15 credits, of which the following must be included:

Required Courses:

- Three Chinese, Japanese, or other Asian language courses at the intermediate level or above (9 cr)
- Two non-language courses with the ASN attribute (6 cr)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.
- Coursework must be done on more than one country in Asia and in more than one discipline.

GIS: Cultural Studies (18 credits) (GCST)

Six courses with the CST attribute for a minimum of 18 credits, of which the following must be included:

Required Courses:

- CST 2100: Introduction to Cultural Studies (3 cr)
- Three Core Courses, one from each of the following three categories (9 cr):

Representation:

- CST 4100: US and Global Pop Culture (3 cr)
- PHI 2750: Philosophy of Art (3 cr)
- PHI 2170: Mass Media Ethics (3 cr)
- PHI 2760: Philosophy of Literature (3 cr)
- PHI 4140: Philosophy of Contemporary Music (3 cr)
- PHI 4150: Philosophy of Film (3 cr)

Gender:

- PHI 2410: Philosophy of Sex and Love (3 cr)
- PHI 2420: Philosophy of Women (3 cr)
- PHI 2430: Eco-Feminism (3 cr)
- PHI 4900: Feminist Theories (3 cr)

Race:

- PJ/PHI: Gender, Race, and Class (3 cr)
- PHI 3160: History of Islamic Philosophy (3 cr)
- PHI 2140: Philosophy of Criminal Justice (3 cr)
- ENG 4646: Race & Ethnicity: American Novel (3 cr)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.

GIS: Irish Studies (15 credits) (GIST)

Five courses with the IS attribute for a minimum of 15 credits, of which the following must be included:

Required Courses:

- One course of Irish language at the intermediate level or above (IS 1121 or 2222) (3 cr)
- One literature survey (ENG 2450 or 2500) (3 cr)

- One history survey (HIS 3216 or 2286) (3 cr)
- Two electives with IS attribute (6 cr)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.

GIS: Russian Area Studies (18 credits) (GRAS)

Six courses for a minimum of 18 credits, of which the following must be included:

Required Courses:

- Two Russian language courses at the intermediate (6 cr)
- Four Courses with the RAS attribute for a minimum of 12 credits (12 cr)

Program Notes:

- Up to two courses taken as part of a study abroad program may be counted.

GIS: Latin American Studies (18 credits) (GLAS)

Six courses with a minimum of 18 credits, of which the following must be included:

Required Courses:

- Four courses with the LAS attribute (12 cr minimum)
- Two advanced Spanish courses above 1122 (6 cr)

Program Notes:

- Courses taken as part of a study abroad may be counted.
- One internship course may be counted.

History

Chair: Marc Gallicchio, Ph.D.

Office Location: 403 Saint Augustine Center

Telephone: 610-519-4662

[\[Website\]](#)

About

The History Department at Villanova offers students a dynamic liberal arts education with courses that span from antiquity to the modern world and traverse every region of the globe. The undergraduate History program focuses on the attainment of deep historical knowledge and a critical understanding of the enduring influence of the past on contemporary societies. The Faculty members of the History Department work closely with our students and prioritize individual development. Our rigorous courses provide the essential transferable skills that make our students competitive on the job market after graduation, and stimulate the intellectual curiosity our students need to become engaged citizens of the world.

MAJOR (33 credits)

History seeks to understand and to explain the story of human experience, since the past provides the only laboratory of human experience actually lived. Historical study compliments and builds on the foundational courses in the core through its appreciation of the complexity of humankind,

recognizing in the men and women who make history the intellectual, the material, social, and spiritual diversity of the human condition. History further advances the goals of the core curriculum through an interdisciplinary methodology that seeks to reconstruct our collective past. It is the story of individuals, and the story of the political, religious, economic, and social ideologies and institutions they create in their search for identity, purpose, and value. History recognizes both the commonality of the human experience and the reality of cultural, class, racial, and gender distinctions that enrich that experience.

Required Major Courses:

- One of the specially designated core history courses (HIS 1060 through HIS 1250) (3 cr)
- HIS 2000: [U.S. History I] **OR** [HIS 2001: Investigating U.S. History II] (3 cr)
- HIS 5001: [Junior Research Seminar] (at least one) (3 cr)
- HIS 5501: [Seminar in Historical Methodology] **OR** HIS 5515: [Independent Research] (3 cr)
- At least six additional history courses of the student's choice (18 cr)
- One art history course in an area that compliments one of the ten history courses* (3 cr)

Program Notes:

- The major is 33 credits and consists of 10 courses in history and one in art history.
- Majors must complete at least 18 credits/6 courses at Villanova.
- * This course does not fulfill the core Fine Arts requirement.

MINOR (18 credits)

A minor is open to all students and requires 6 history courses for 18 credits, these 18 credit hours must include one specially designated core course.

One of the following courses may also be taken for credit towards the History Minor:

- AAH 1101: [History of Art: Beginnings to Renaissance] (3 cr)
- AAH 1102: [History of Art: Renaissance to Contemporary World] (3 cr)

Program Notes:

- History Minors must earn at least half (9 credits/3 courses) at Villanova
- See History Department Undergraduate Programs website for details on AP Credit Policy as it related to Major/Minor.

Honors

Director: Thomas W. Smith, Ph.D.

Office Location: 106 Garey Hall

Telephone: 610-519-4650

[\[Website\]](#)

About

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 GPA). Individual Honors courses are open to all Villanova students who have at least a 3.0 overall GPA or will bring a special expertise to the course, contingent upon class size limitations.

DEGREE (30 credits)**The Honors Degree, Thesis Track (10 Honors courses)**

Requirements: At least 3 upper level Honors courses, which will include a six-credit HON 6000 and HON 6002 senior thesis; minimum 3.33 GPA.

The Honors Degree, Oral Examination Track (10 Honors courses)

Requirements: An Oral Comprehensive Examination in the senior year integrates three upper-level Honors courses in a primary major or area of academic interest; minimum 3.33 GPA.

MINOR (5 Honors courses)

Requirements: Five courses in Honors, at least two of which must be upper level; minimum 3.33 GPA. The Honors Program also offers upper-level seminars which fulfill degree requirements in specific academic disciplines. All courses are small seminars and have in common active class participation, and intensive writing requirements.

Honors Minor in Politics, Philosophy, and Economics (18 credits)

An interdisciplinary minor offered through the Honors Program focusing on the intersection of the disciplines of politics, philosophy and economics. Students may only contract one non-Honors course to complete the minor requirements. Excluding the 3 Honors Cohort classes, which must be taken at Villanova, students may fulfill two of any other requirements by taking the equivalent course in an Honors-approved student abroad experience. Students pursuing a PPE minor in Honors may contract only 1 course in total to fulfill the requirements. Students only receive 1 Minor from Honors. If students are pursuing the Honors Degree, the PPE Minor would be considered a “track” within their Honors Degree.

To achieve the Honors PPE minor, students must take 6 courses from among the following requirements (minimum 3.33 GPA and active status in Honors required):

3 Honors Cohort Classes

- Honors ACS I: [PPE Cohort] (3 cr)
- Honors ACS II: [PPE Cohort] (3 cr)
- HON 5700: [Justice Seminar] (3 cr)

1 Honors course in Ethics

- Ethics 2050: [Business and Society] (3 cr)
- Students may also count a course in Ethics taken during their study abroad semester in Cambridge with permission from the Honors Director.

1 Honors Economics courses

- Macro, Micro, International, e.g.
- Students may also count an economics course taken during their study abroad semester in Cambridge with permission from the Honors Director.

1 upper level Elective (Can be contracted)

- PHI 2300: [Philosophy of Law] (3 cr)
- PHI 2450: [Catholic Social Thought] (3 cr)
- PSC 2200: [International Law] (3 cr)
- PSC 2240: [International Policy Economy] (3 cr)
- ECO 3108: [Global Political Economy] (3 cr)
- ECO 3115: [Comparative Economic Systems] (3 cr)

- ECO 3126: [American Economic Development] (3 cr)
- HUM 2100: [Goods and the Good Life] (3 cr)
- HUM 5950: [Citizenship and Globalization] (3 cr)

Honors Minor in Medical Humanities (15 credits)

An interdisciplinary minor offered through the University Honors Program focusing on the intersection of the humanities, medical care, medical ethics, and an holistic approach to medicine. Students pursuing this minor may contract only one course to fulfill the requirements. Students pursuing a Medical Humanities minor in Honors may contract only 1 course in total to fulfill the requirements. Students only receive 1 Minor from Honors. If students are pursuing the Honors Degree, the Medical Humanities Minor would be considered a “track” within their Honors Degree.

To achieve the Honors Medical Humanities Minors students must take 5 courses from among the following requirements (minimum 3.33 GPA and active status in Honors required):

2 Honors liberal arts courses, taken from the following:

- ACS I-II [Good, True] (3 cr)
- Honors Core Seminar: Beauty (3 cr)
- Any Interdisciplinary Course (3 cr)
- THL 1500: [Spirituality and the Healing Arts] (3 cr)
- THL 3450: [Pastoral Care of the Sick] (3 cr)
- HUM 3450: [World] (3 cr)

1 Honors Ethics course focusing on medical ethics

- ETH 2050: [Medical Ethics] (3 cr)
- PHI 4125: [Bioethics] (3 cr)
- THL 4200: [Ethics and Life and Death] (3 cr)

1 Upper level Honors elective/Junior Experience course

- PHI 2117: [Good Doctor] (3 cr)
- SOC 3400: [Medical Sociology] (3 cr)

Senior Capstone

Humanities

Chair: Michael Tomko, Ph.D.

Office Location: 304 Saint Augustine Center

Telephone: 610-519-6165

[\[Website\]](#)

About

The Department of Humanities offers a coordinated series of seminars and courses designed to inquire into the human condition from an interdisciplinary perspective. Drawing on wisdom ancient and new, the curriculum encourages critical thinking about what is needed for human flourishing. Humanities faculty are specialists in complementary disciplines, including theology, philosophy, literature, political science, history, economics, and architectural history. Humanities courses fulfill certain requirements for the Core Curriculum of the College of Liberal Arts and Sciences.

MAJOR (30 credits)

The Humanities major requires the completion of ten courses. All majors are required to take the four Gateway courses. In their final semester students also take the Senior Symposium. Students then take five free electives, three of which must be taken within the Department of Humanities.

Required Major Courses:

- HUM 2001: [God] (3 cr)
- HUM 2002: [Human Person] (3 cr)
- HUM 2003: [World] (3 cr)
- HUM 2004: [Society] (3 cr)
- HUM 6500: [Senior Symposium] (3cr)
- 5 free electives, 3 within the Department of Humanities

MINOR (15 credits)

Students take two of the four Gateway courses, plus 3 electives, 2 of which must be taken in the Department of Humanities.

Required courses:

- Select two courses from the following:
 - HUM 2001: [God] (3 cr) **OR**
 - HUM 2002: [Human Person] (3 cr) **OR**
 - HUM 2003: [World] (3 cr) **OR**
 - HUM 2004: [Society] (3 cr) **OR**
- 3 free electives, 2 within the Department of Humanities

Individually Designed Major

Program Director: Joseph Lennon, Ph.D.
Office Location: 105E Saint Augustine Center
Telephone: 610-519-4647
[\[Website\]](#)

About

Requires an intensive proposal and approval process; admission to this major requires you to file your proposal no later than the end of your first semester of your sophomore year.

MAJOR (33 credits)

An Individually Designed Major (IDM) is motivated by students' own learning goals, and guided by a curriculum map that you will develop in consultation with faculty mentors, the Associate Dean, and the IDM committee.

This is not a series of Independent Study courses, wherein a faculty member takes the lead in developing a reading and writing program for students. Rather, faculty members and the established programs and departments within the College of Liberal Arts and Sciences (henceforth, LAS), function as collaborative resources for students to pursue a defined course of study. This is only allowable if no established majors are able to provide a pathway for students to achieve their stated goals.

The IDM provides an interdisciplinary mechanism for students to design a major that will integrate different methodologies, topics, disciplinary cultures, and learning styles.

Center for Irish Studies

Director: Joseph Lennon, Ph.D.

Office Location: Saint Augustine Center, 105E

Telephone: (610) 519-4647

[\[Website\]](#)

About

Irish Studies explores the history and culture of the Irish people in Ireland and the Irish diaspora from a variety of disciplines—art, economics, folklore, history, language, literature, music, philosophy political science, and theater. Students can major in Irish Studies through the department of Global Interdisciplinary Studies, culminating in a rigorous multidisciplinary thesis. The minor is open to students from all colleges and can be completed by taking five courses, two required and three electives, either on campus and abroad. For students in the College of Arts and Science, two four-credit courses in the Irish language may be taken to complete the College language requirement.

The Center works with local organizations and hosts a lively series of readings, academic lectures, performances, and receptions, also welcoming cultural, political, and business leaders to campus for networking. Interested students may also study in Ireland in a Semester Abroad program or through the Villanova Summer in Ireland Program or apply for one of several professional internships abroad or in Philadelphia. Details are available through the Center for Irish Studies.

MAJOR (21 Credits credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Irish Studies, please see that page for detailed requirements of the major.

MINOR (15 credits)

A minor is open to all students. Completion of the required English course and History course is a pre-requisite for beginning the minor.

Required Courses:

- ENG 2450: Irish Epics, Visions & Hauntings (3 cr) or ENG 2500: Irish Revival (3 cr)
- HIS 2286: Irish-American Saga (3 cr) or HIS 3216: Ireland Since 1800 (3 cr)
- Three additional courses with an IS attribute

Italian

Program Coordinator: Luca Cottini, Ph.D.

Office Location: 339 Saint Augustine Center

Telephone: 610-519-3763

[\[Website\]](#)

About

Knowledge of Italian provides access to a rich cultural background, and, at the same time, to a singular perspective on contemporary world. While exploring the master of Western thought (Dante, Petrarca, Boccaccio, Machiavelli, Michelangelo, Bernini, Galileo, and Vico to name a few), the encounter with Italian culture provides also a singular reflection on current events, by embodying a unique business model (in fashion, design, and the culinary industry) and a peculiar political perspective on Europe and America.

MAJOR (30 credits)

The Italian Studies Program, within the Department of Romance Languages and Literatures, is designed to make students fluent in Italian, to expose them to Italian culture in all its aspects (literature, visual arts, design, history, cinema), to broaden their intellectual horizon, and to introduce them to the professional world. Italian offers a flexible major or minor, which can be easily combined with majors in psychology, communications, humanities, economics, business, nursing, law and politics.

Required Major Courses:

- Nine courses above the intermediate level including taught in Italian including:
 - ITA 1138: Advanced Grammar **OR** ITA 1140: Writing and Stylistics (3 cr)
 - ITA 2220: Literature and Culture I **OR** ITA 2221: Literature and Culture II (3 cr)
- One course taught in English:
 - RLL 3413: Italy and Beauty (3 cr) or RLL 3412 (Dante's Comedy)
- Plus: ITA 3971: Directed Research in ITA (1 cr)

Program Notes:

- Majors and minors can earn some of their credits by studying in Italy either through the affiliated summer programs in Perugia, Rome, and Milan.

MINOR (15 credits)

A minor is open to all students and requires 5 Italian courses.

Required Minor Courses:

- ITA 1131: Conversation and Composition I (3 cr)
- RLL 3413: Italy and Beauty (3 cr)
- Three additional upper level courses taught in Italian (6 cr)

Program Notes:

- Once a sequence of courses has begun, a student may not revert to a lower-level course.

Japanese Language and Cultural Studies

Coordinator: Masako Hamada, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Japanese Language and Cultural Studies program offers a variety of courses that cover everything from language study to all aspects of Japan — traditional and pop culture, society, history, literature, films, culinary culture and women's studies. The program represents a cutting-edge intellectual experience that provides its minors with a real advantage in critiquing, understanding, and navigating the global landscape.

MINOR (28 credits)

A minor is open to all students and requires 6 courses for 28 credits.

Required Minor Courses:

- JPN 1111: Basic Japanese I (6 cr)
- JPN 1112: Basic Japanese II (6 cr)
- JPN 1121: Intermediate Japanese I (5 cr)
- JPN 1122: Intermediate Japanese II (5 cr)
- Two JPN electives (6 cr)

Latin American Studies

Program Director: Cristina Soriano, Ph.D.

Office Location: 446 Saint Augustine Center

Telephone: 610-519-3290

[\[Website\]](#)

About

The Villanova Latin American Studies Program, established in 1988, offers students in all of the university's four undergraduate colleges the opportunity to acquire a broad multi-disciplinary understanding and appreciation of Latin America. Students may pursue either a minor or the more comprehensive major (GLAS). Both are designed to complement a variety of majors; many concentration and minor courses can also be used to satisfy core curriculum requirements.

Since language is essential to understanding any culture, a degree of language proficiency is an integral part of both the major and the minor. And, since living in Latin America offers invaluable experience in language, culture, and contemporary life issues, students in the program are strongly encouraged to spend a summer or semester in the region.

MAJOR (34 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Latin American Studies. Please see that page for detailed requirements of the major.

MINOR (18 credits)

A minor is open to all students and requires 6 courses for 18 credits.

Required Minor Courses:

- Four Latin America elective courses with the LAS attribute (12 cr minimum))
- Two Spanish courses above 1122 (6 cr)

Liberal Arts Major

Chair: Susan Jacobs, M.A.

Office Location: 107 Saint Augustine Center

Telephone: 610-519-3900

[\[Website\]](#)

MAJOR (30 credits)

The Liberal Arts Major is a rigorous academic major, which requires students to complete an intensive course of study that includes 40 courses and at least 122 credits. The Liberal Arts Major requires a plan of study outlined with a faculty advisor as part of the application process and is granted by special permission from the Assistant Dean for Undergraduate Students. Please visit the office for more details.

Mathematics and Statistics

Chair: Jesse Frey, Ph.D.

Office Location: 305 Saint Augustine Center

Telephone: 610-519-4850

[\[Website\]](#)

About

The Department of Mathematics & Statistics offers a standard course of study for a mathematics major to provide the student with an introduction to the major branches of mathematics as an academic discipline within the context of a comprehensive education in the liberal arts and sciences. Students who complete the Mathematics program will be prepared for a broad range of opportunities in business, government, and service industries, as well as being prepared to undertake graduate study in mathematics and related disciplines.

MAJOR (58 credits)

The program leading to the degree of Bachelor of Science in Mathematics & Statistics is designed to introduce students to the major aspects of contemporary mathematics.

By selecting appropriate electives students may become well prepared either for positions in industry or for graduate study in mathematics and related disciplines. The mathematics major can prepare for a career in actuarial science, operations research, computer science, statistics, biostatistics, mathematical physics or any of many other areas which use mathematics.

Required Major Courses:

- MAT 1500: [Calculus I] (4 cr)
- MAT 1505: [Calculus II] (4 cr)
- MAT 2500: [Calculus III] (4 cr)
- MAT 2600: [Foundations of Math I] (3cr)
- MAT 2705: [Diff Equation with Linear Alg] (4 cr)
- MAT 3300: [Advanced Calculus] (3 cr)
- MAT 3400: [Linear Algebra I] (3 cr)
- MAT 3500: [Modern Algebra I] (3 cr)
- MAT 5900: [Seminar in Mathematics] (3 cr)

- One approved upper level analysis course (e.g. MAT 4270 or MAT 5400) (3cr)
- Four other mathematics courses numbered 3000 or above (12 cr)
- One two-semester sequence of natural science courses with lab at the science-major level (8 cr)
- One additional science course at the science-major level with lab if appropriate (4 cr)

MINOR: Mathematics (27 credits)

To receive a math minor certificate, the student must see Dr. Paul Pasles in person prior to the course registration for their final semester. Students may consult Dr. Pasles at any time for information and advice. If all requirements are satisfied, the certificate will be issued about two weeks after graduation and it will also appear on the student's transcript.

Required Minor Courses:

- The analysis sequence:
 - MAT 1500: [Calculus I] (4 cr)
 - MAT 1505: [Calculus II] (4 cr)
 - MAT 2500: [Calculus III] (4 cr)
- Five elective courses: MAT 2600, MAT 2705, or MAT courses numbered 3000 or higher.

Program Notes:

- A student may petition to substitute no more than one of the five math minor electives with an upper division course in their own major. The proposed substitutions must contain substantial mathematical content and not overlap with any math minor elective courses.

MINOR: Statistics (27 credits)

To receive a statistics minor certificate, the student must see Dr. Zhang in person prior to course registration for his/her final semester. Students may consult Dr. Zhang at any time for information and advice. If all requirements for the minor are satisfied, then the certificate will be issued about two weeks after graduation. The minor will also appear on the student's transcript.

Required Minor Courses:

- The calculus sequence:
 - MAT 1500: [Calculus I] (4 cr)
 - MAT 1505: [Calculus II] (4 cr)
 - MAT 2500: [Calculus III] (4 cr)
- Three required statistics courses:
 - MAT 4310: [Stat Methods] (3 cr)
 - MAT 4315: [Applied Statistical Models] (3 cr)
 - MAT 5700: [Math Statistics I] (3 cr)
- Two elective statistics courses (6 cr)

Program Notes:

- A student who is not a mathematics major may petition to have an upper division course from their major count as one of the two statistics electives. The course must have substantial statistical content and must not substantially overlap with any of the other courses that the student is counting towards the minor.
- To receive a statistics minor certificate, the student must see Dr. Bernhardt in person prior to course registration for his/her final semester.

- For mathematics majors, four courses may be counted towards both the mathematics major and the statistics minor: MAT1500, 1505, 2500 and either 4310 or 5700. No other courses count towards both. Thus, obtaining the statistics minor requires taking four additional courses beyond those required for the mathematics major.

Military Science

(Army ROTC)

Program offered through Widener University's Department of Military Science.

About

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 a 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.

Detailed information may be obtained from the Professor of Military Science, Widener University, Chester, PA 19013, (610) 499-4098. Go to www.armyrotc.villanova.edu for further details.

Naval Science Program and Minor

(Navy ROTC)

About

Villanova University, in a long-standing relationship with the United States Navy, maintains one of approximately 60 Naval Reserve Officers Training Corps units in the United States. The objective of the Unit is to educate prospective officers for the Navy and Marine Corps. Reserve 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 period of four to nine years, depending upon choice of warfare specialty.

All Scholarship and College Program students may select any major at the University. 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.

Center for Peace and Justice Education

Chair: Kathryn Getek Soltis, S.T.L., Ph.D.

Office Location: 106 Corr Hall

Telephone: 610-519-6849

[\[Website\]](#)

About

The interdisciplinary curriculum of the Center for Peace and Justice Education is rooted in Villanova's Augustinian tradition of education in the service of peace and social justice, with particular emphasis on the poor and marginalized in society. Students are prepared to understand the essential elements of a moral and just society, reflect on models for socially responsible resolution of injustice and conflict, and learn the necessary skills to be advocates for a just and peaceful world.

MAJOR (30 credits)

The major in Peace and Justice Studies is offered in collaboration with the Department of Global Interdisciplinary Studies. To complete the major, students take five required courses and five elective courses in Peace and Justice, courses with a Peace and Justice attribute, or courses otherwise earning Peace and Justice credit.

Required Major Courses:

- GIS 2000: Intro to Global Interdisciplinary Studies (3 cr)
- PJ 2800: [Race, Class, and Gender] (3 cr)
- PJ 2993: [Internship] (3 cr)
- GIS 6500: [Senior Capstone I: Research] (3 cr)
- GIS 6600: [Senior Capstone II: Thesis] (3 cr)
- Five Electives with a Peace and Justice attribute (15 cr)

Program Notes:

- Electives should be determined in consultation with the program director and tailored to the student's field(s) of interest.
- Three 1-credit courses with the PJ attribute can be bundled to count as one elective.

MINOR (18 credits)

To complete a minor in Peace and Justice, students must take six courses, including one of the foundational courses and five other courses in Peace and Justice, courses with a Peace and Justice attribute, or courses otherwise earning Peace and Justice credit.

Required Minor Courses:

- One Peace and Justice foundational course: (3 cr)
 - PJ 2250: [Violence and Justice in the World] (3 cr)
 - PHI 2450: [Catholic Social Thought] (3 cr)
 - PJ 2700: [Peacemakers and Peacemaking] (3 cr)
 - PJ 2800: [Race, Class, and Gender] (3 cr)
 - PJ 2900: [Ethical Issues in Peace and Justice] (3 cr)
- Five Electives with a Peace and Justice attribute (15 cr)

Program Notes:

- PJ ePortfolio (three pieces of work and a short reflection)
- No more than three foundational courses may receive credit for the minor.
- Three 1-credit courses with the PJ attribute can be bundled to count as one elective.

Philosophy

Chair: Sally Scholz, Ph.D.

Office Location: 108 Saint Augustine Center

Telephone: 610-519-4690

[Website](#)

About

The Philosophy department offers interesting courses that help students better understand the world and their place in it. Philosophy courses teach students to analyze difficult texts, to write clearly and precisely, to defend their views with cogent arguments and to take pleasure in the struggle with complex ideas and questions.

MAJOR (10 courses, 30 Credits)

The philosophy major consists of 10 courses and 30 credits.

Required Courses:

- PHI 1000: Knowledge, Reality, Self (3 cr)
- One course in ancient philosophy [PHI 3020, PHI 4100, or an approved Topics course] (3 cr)
- One course in medieval philosophy [PHI 3030, PHI 3100, PHI 3120, PHI 3160, PHI 3410, or an approved Topics course] (3 cr)
- One course in modern philosophy [through the 19th century] (3 cr) [PHI 3040, PHI 3050, PHI 3720 or an approved Topics course]
- PHI 5000: Advanced Seminar for Philosophy Majors [Capstone] (3 cr) or PHI 6000: Research Seminar [Thesis] (3 cr)
- Five additional PHI electives

Program Notes:

- Students who are majoring in philosophy may pursue a specific area of philosophy by taking one of the department's thematic clusters or devising one of their own (see the website for more information about the thematic clusters)
- Philosophy majors may work with an individual faculty member to write a thesis, which substitutes for the capstone course.

Double Majors

Because of the interdisciplinary nature of philosophy, the department welcomes and encourages double majors. With the permission of the chair, philosophy majors may count up to two related courses from the second major toward fulfillment of the philosophy major requirements.

MINOR (5 courses)

Philosophy minors take any five courses in the philosophy department.

Physics

Chair: Michael Hones, Ph.D.

Office Location: 347 Mendel Science Center

Telephone: 610-519-4885

[\[Website\]](#)

About

Physics is an experimental science in which its practitioners investigate nature at the most fundamental level on scales ranging from subatomic distances to the size of the universe. It is a quest to understand the origin and behavior of all forces: forces that account for the observed stability and in some cases instability of the atomic nucleus; forces that account for the stability of the atom; and forces that account for the stability of matter and the large-scale structures of the universe.

In this sense, it is the most fundamental of all physical sciences, and the successful physics student will be adept at solving problems using techniques that probe the fundamental building blocks of nature. Being trained to analyze phenomena at the most fundamental level makes the physics major versatile. Therefore, the student who successfully completes the degree in physics will not only be well prepared for graduate studies in physics, but also for employment in research-oriented industries or study in professional fields.

MAJOR (B.S.) (88 credits)

The **BS in Physics** is for the student who wants to be a professional physicist or go on to graduate school in physics.

Required Major Courses:

- PHY 2410/2411: Univ. Physics: Mechanics w/Lab (4 cr)
- PHY 2412/2413: Univ. Physics: Electricity & Magnetism w/Lab (4)
- PHY 2601: Computational Physics Lab I (1 cr)
- PHY 2603: Computational Physics Lab II (1 cr)
- MAT 1500: Calculus I (4 cr)
- MAT 1505: Calculus II (4 cr)
- PHY 2414-2415: Univ. Physics: Thermodynamics w/Lab (4 cr)
- PHY 2416-2417: Modern Physics w/Lab (4 cr)
- PHY 3310-3311: Electronics w/Lab (4 cr)
- PHY 4200: Mathematical Physics I (3 cr)
- MAT 2500: Calculus III (4 cr)
- MAT 2705: Diff Equations (4 cr)
- CHM 1103: General Chemistry Lab I (1 cr)
- CHM 1151: General Chemistry I (4 cr)
- CHM 1152: General Chemistry II (4 cr)
- PHY 4100: Mechanics I (3 cr)
- PHY 4102: Mechanics II (3 cr)
- PHY 4301: Experimental Methods I (2 cr)
- PHY 4000-40001: E&M I w/Lab (4 cr)
- PHY 4002-4003: E&M II w/Lab (4 cr)
- PHY 4202: Math Phy II (3 cr)
- PHY 5100: Quantum Mechanics (3 cr)
- PHY 5200: Thermo/Stat Mech (3 cr)
- PHY 5300: Subatomic Physics (3 cr)
- PHY Elective (3 cr)
- Senior Thesis/Research Project (3 cr)
- Science Elective

MAJOR (B.A.) (79 credits)

The **BA in Physics** is for the student who wants to minor in another science or in engineering or who is planning employment in graduate studies outside of the sciences in fields such as medicine, law, business, journalism, secondary school teaching, or other fields. Instead of the normal advanced courses in physics, the candidate uses these slots for a minor in another area. There is a senior research option.

Required Major Courses:

- PHY 2410/2411: Univ. Physics: Mechanics w/Lab (4 cr)
- PHY 2412/2413: Univ. Physics: Electricity & Magnetism w/Lab (4)
- PHY 2601: Computational Physics Lab I (1 cr)
- PHY 2603: Computational Physics Lab II (1 cr)
- MAT 1500: Calculus I (4 cr)
- MAT 1505: Calculus II (4 cr)
- PHY 2414-2415: Univ. Physics: Thermodynamics w/Lab (4 cr)
- PHY 2416-2417: Modern Physics w/Lab (4 cr)
- PHY 3310-3311: Electronics w/Lab (4 cr)
- PHY 4200: Mathematical Physics I (3 cr)
- MAT 2500: Calculus III (4 cr)
- MAT 2705: Diff Equations (4 cr)
- CHM 1103: General Chemistry Lab I (1 cr)
- CHM 1151: General Chemistry I (4 cr)
- CHM 1152: General Chemistry II (4 cr)
- PHY 4100: Mechanics I (3 cr)
- PHY 4301: Experimental Methods I (2 cr)
- PHY 4303: Experimental Methods II (2)
- PHY 4000-40001: E&M I w/Lab (4 cr)
- PHY 5100: Quantum Mechanics (3 cr)
- PHY Elective (3 cr)*
- Minor/Concentration (12 cr)

Program Notes:

- *Or technical elective. Approval of the Physics chairperson required.

MINOR (16 credits)

The Physics Department offers a minor in physics to qualified students whose major area of study lies outside of physics. In general, a student in any area of study, other than physics, may obtain a minor in physics.

Required Minor Courses:

- Sixteen credits in the University Physics sequence PHY 2410-2417 (16 cr)
- Fifteen additional credits of upper level physics electives.

Program Notes:

- The Minor in Applied Physics for Math Majors requires all of the Math courses required for the Math degree, plus MAT 4310, PHY 2410/2411, through PHY 2416/2417, PHY 3310/3311, and PHY 4301/4303

Political Science

Chair: Markus Kreuzer, Ph.D.
Office Location: 202 Saint Augustine Center
Telephone: 610-519-4710
[\[Website\]](#)

About

Today, no less than in the past, it is essential for citizens in a democracy to be educated about the political system in which they live and to know how that system relates to other governments and international issues. The study of political science will educate you about timely and important political issues on a national and global scale while helping you develop a set of analytical, reasoning and research skills to last a lifetime. As a political science major, you will learn about American politics, comparative politics, international relations and political theory; become familiar with the methodology of social science inquiry and learn how to conduct research; build competence in oral and written expression; develop reasoning and analytical skills; become a politically engaged citizen-leader; prepare for any number of politically-oriented careers or for graduate or professional training. As a political science major, you will learn how political leaders operate; governments make decisions; politics shapes public policy; governments respond to internal and international conflicts; people develop political attitudes and preferences; groups attempt to influence government; and governments can best serve their people.

MAJOR (33 credits)

In the context of the liberal arts tradition, the Department of Political Science seeks to encourage in its students a commitment to intellectual curiosity, academic excellence, and responsible civic engagement. The Department is committed to helping students improve their skills of observation, critical reading, rigorous thought, careful evidence-based argumentation, and effective communication, and to develop values of good citizenship.

Required Major Courses:

- PSC 1100: American Government (3 cr)
- PSC 1200: International Relations (3 cr)
- PSC 1300: Comparative Politics (3 cr)
- PSC 1400: Political Theory (3 cr)
- PSC 1900: Research Seminar (3 cr)
- PSC 6900: Senior Seminar (3 cr)
- Five PSC Electives chosen from the upper division courses (2000-3000) from the four major subfields (American Government, International Relations, Comparative Politics, Political Theory) in any combination. (15 cr)

Program Notes:

- Foundational courses should be taken immediately upon declaring the major. They serve as prerequisites for many of the upper division courses and the senior seminar.
- With the exception of internships (up to 3 credits), courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major.
- Any senior with a GPA of 3.0 or above may request to take a graduate PSC course.

MINOR (18 credits)

A minor is open to all students and requires 6 courses and 18 credits.

Required Minor Courses:

- At least two foundational courses: (6 cr)
 - PSC 1100: American Government (3 cr)

- PSC 1200: International Relations (3 cr)
- PSC 1300: Comparative Politics (3 cr)
- PSC 1400: Political Theory (3 cr)
- Four PSC Electives chosen from the upper division courses (2000-3000) from the four major subfields (American Government, International Relations, Comparative Politics, Political Theory) in any combination. (12 cr)

Program Notes:

- Students completing the minor are encouraged to focus on one or two subfields, although they are not required to do so.
- Internship credit will not be applied to the Political Science minor.

Psychology

Chair: Michael Brown, Ph.D.

Office Location: 334 Tolentine Hall

Telephone: 610-519-4722

[\[Website\]](#)

About

Psychology is the basic and applied science of mind and behavior. Psychologists use the methods of both natural and social science to advance our knowledge and understanding of thought, emotion, and behavior in humans and other organisms. Psychologists also apply this knowledge to improve the conditions of individuals and society. The Department of Psychological and Brain Sciences offers two majors in psychology, a Bachelor of Science (B.S.) and a Bachelor of Arts (B.A.). To declare either major students must have completed PSY 1000 or PSY 1001, or have AP credit for PSY 1000. In addition, they must have a C+ or higher in PSY 1000 or PSY 1001, or have an overall minimum GPA of 3.00.

MAJORS (B.S.) (53 credits) & (B.A.) (31 credits)

Required Major Courses for B.S.:

- PSY 1000: General Psychology **OR** PSY 1001: Intro to Brain and Behavior (3 cr)
- PSY 2000: Introductory Statistics (3 cr)
- PSY 2050: Research Methods in Psychology (3 cr)
- PSY 2100: Seminar in Professional Development (1 cr)
- PSY 5150: Foundations of Modern Psychology **OR** PSY 5250: Contemporary Issues in Psychology (3 cr)
- PSY 4200: Biopsychology (3 cr)
- PSY 4500: Cognitive Psychology (3 cr)
- Three PSY 3000-level courses (9 cr)
- Any two additional PSY courses (6 cr)
- BIO 2105: General Biology I (4 cr)
- BIO 2106: General Biology II (4 cr)
- CSC 1051: Algorithms & Data Structures I (4 cr)
- MAT 1500: Calculus I **AND** MAT 1505: Calculus II (8cr)
- OR**
- MAT 1312: Biocalculus **AND** MAT 1314: Modeling (8cr)

Required Major Courses for B.A.:

- PSY 1000: General Psychology **OR** PSY 1001: Intro to Brain and Behavior (3 cr)
- PSY 2000: Introductory Statistics (3 cr)
- PSY 2050: Research Methods in Psychology (3 cr)
- PSY 2100: Seminar in Professional Development (1 cr)
- PSY 5150: Foundations of Modern Psychology **OR** PSY 5250: Contemporary Issues in Psychology (3 cr)
- Three PSY 3000-level courses (9 cr)
- PSY 4200: Biopsychology (3 cr) **OR** PSY 4500: Cognitive Psychology (3 cr)
- Any two additional PSY courses (6 cr)

Program Notes:

- Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the major, except for PSY 2100: Seminar in Professional Development.

MINOR (15 credits)

A minor is open to all students and requires 5 courses and 15 credits.

Required Minor Courses:

- PSY 1000: General Psychology (3 cr)
- Four additional 3-credit PSY courses (12 cr)

Program Notes:

- Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the minor.
- Students wishing to be awarded the minor must also submit a declaration form to the Department of Psychological and Brain Sciences.

Public Administration

Chair: Catherine E. Wilson, Ph.D.

Office Location: 484 Saint Augustine Center

Telephone: 610-519-3934

[\[Website\]](#)

About

The Department of Public Administration offers a Minor in Public Service and Administration for undergraduate students. The minor is an interdisciplinary course of study, open to students from all Colleges, that prepares students to be responsibly engaged citizens, government managers, and community leaders working in the “new public sector.” The “new public sector” refers to the complex relationships that exist between government at all levels, nonprofit organizations, higher education, and the private sector. Now more than ever before, these groups have been called upon to cooperate in order to address society’s most pressing and challenging problems.

MINOR (18 credits)

In the Public Service and Administration Minor, you will be introduced to ethical, philosophical, theological, historical, social, and political perspectives that influence the leadership and management of government and nonprofit organizations. The specific goals of this minor are to help prepare you to understand and pursue the common good; assist in the creation, implementation, and analysis of public programs; strengthen communities through innovative leadership and engaged citizenship; reflect on how the citizen as public servant discovers meaning and purpose in one's life by forging and developing the bonds of community.

Required Minor Courses:

- PA 1050: [Public Administration] (3 cr)
- PA 2000: [Public Policy] (3 cr) **OR** PA 6000: [The Vocation of Public Service] (3 cr)
- Four electives from among the following: (12 cr)
 - PA 2000: [Public Policy] (3 cr)
 - PA 2100: [City and Suburb] (3 cr)
 - PA 3000: [Overview of the Nonprofit Sector] (3 cr)
 - PA 5000: [Special Topics] (3 cr)
 - PA 5100: [Independent Study] (3 cr)
 - PA 6000: [The Vocation of Public Service] (3 cr)
 - PA 6100: [PSA Internship] (3 cr)
 - VIA 3020: [Creating Social Impact] (3 cr)

Program Notes:

- At least four of the courses (12 credits) must be within the Department of Public Administration and up to two pre-approved elective courses (6 credits) may be taken outside of the Department's course offerings.
- Additional approved electives outside the Department of Public Administration may be found on the Public Administration [website](#).
- All service learning courses can be approved as electives towards the Minor.

Russian Area Studies Concentration (RASCON)

Chair: Joseph Loya, O.S.A.

Office Location: 233 Saint Augustine Center

Telephone: 610-519-7243

[\[Website\]](#)

About

The Concentration in Russian Area Studies promotes the study of the Russian language, culture and society. With a rigorous and intellectually challenging program, students in the Russian Area Studies Concentration will become proficient in the language by taking at least two semesters of Russian language at the intermediate level and will gain well-rounded knowledge of the culture by taking four electives chosen from designated courses in History, Literature, Political Science, Economics, Theology and Religious Studies, and Art and Art History.

MAJOR (34 credits)

The Department of Global Interdisciplinary Studies (GIS) offers a major with a specialization in Russian Area Studies, please see that page for detailed listing of requirements.

CONCENTRATION (RASCON) (18 credits)

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 Russia through the study of this complex country's language, culture, literature, history, politics, religions and art.

Required Concentration Courses:

- Two semesters of Russian at the intermediate level **OR** demonstrated proficiency at an equivalent level.
- Four courses from among the following:
 - HIS 1070: Land of the Tsars and Commissars (3 cr)
 - HIS 1165: HON-Suffering&Progress (3 cr)
 - HIS 3242: Russia from Stalin to Putin (3 cr)
 - HUM 6000: Brothers Karamazov (3 cr)
 - PSC 3320: Russian Politics (3 cr)
 - RUS 1131: Advanced Russian Composition and Conversation 1 (3 cr)
 - RUS 1132: Advanced Russian Composition and Conversation 2 (3 cr)
 - RUS 3412: Special Topics-Russian Culture in Context Study Abroad (3 cr)
 - RUS 4110: Russian Film (3 cr)
 - RUS 4120: The Russian Short Story (3 cr)
 - RUS 4130: The Russian Novel (3 cr)
 - SAR 4007: Paintings of Icons (3 cr)
 - THL 5200: Religion in Russia (3 cr)

Program Notes:

Other appropriate special topics courses in Economics and History may count towards electives as approved by the director.

Russian Language and Cultural Studies

Coordinator: Boris Briker, Ph.D.

Office Location: 36 Garey Hall

Telephone: 610-519-6302

[\[Website\]](#)

About

The Russian Studies Program offers courses that cover from language study to all aspects of Russia — the history, literature, culture, folklore, music, film, news media, and women's studies. This allows students to become familiar with Russian culture and society and the life experiences of Russians. Students also become familiar with Russia through courses on Russian history and politics offered by other departments on campus.

MINOR (24 credits)

The Russian Language and Cultural Studies minor represents a cutting-edge intellectual experience that provides students with a real advantage in critiquing, understanding, and navigating the global landscape.

Required Courses:

- RUS 1111: [Basic Russian I] (6 cr)
- RUS 1112: [Basic Russian II] (6 cr)
- RUS 1123: [Intermediate Russian I] (3 cr)
- RUS 1124: [Intermediate Russian II] (3 cr)
- Two 3-credit courses with the RUS attribute (6 cr)

Program Notes:

- Other culture-based courses with RAS attribute found across disciplines also qualify

Sociology

Chair: Robert DeFina, Ph.D.

Office Location: 204 Saint Augustine Center

Telephone: 610-519-4742

[Website](#)

About

Sociology is the systematic study of social life. Sociologists believe that people's actions are strongly influenced by the conditions and situations in which they live, work, and play. Everybody makes decisions, but we recognize and study how social structures and institutions affect and constrain those decisions. Our goal as researchers is to expose and analyze the impacts of those circumstances on human decisions, societies, and opportunities. Methodologically, we incorporate multiple perspectives and analytical approaches to help create a more holistic understanding of our society. Our mission as teachers is to empower students to think critically and rigorously about individuals and societies. Through our diverse offerings on local, regional, national and global social processes, we strive to create more complete human beings with a keen sense of humanity, social justice, and appropriate social policy.

MAJOR (33 credits)

To declare the Major, a student must have completed Introduction to Sociology (SOC 1000), with a "C+" or higher or have a minimum GPA of 3.0. The Major consists of 33 credits. A student must allow three full semesters after the declaration of the Major to complete all requirements. One of the Sociology electives for the Major can be satisfied by an internship for credit with approval from the department Chair, provided that the student has at least 15 credits toward the Major.

Required Major Courses:

- SOC 1000: Introduction to Sociology (3 cr)
- SOC 5300: Data Analysis for Social Scientists (3 cr)
- SOC 5400: Applied Research Methods in Sociology (3 cr)
- SOC 6500: Senior Seminar (3 cr; prerequisites: one Theory course, SOC 5300 and SOC 5400)
- One of the following Theory courses (prerequisite: SOC 1000)
 - SOC 5000: Nature and History of Sociological Theory (3 cr)
 - SOC 5050: Sociological Theory and Research (3 cr)
 - SOC 5100: Contemporary Theory and Research (3 cr)

- Five sociology electives (15 cr)
- One criminology elective (3 cr).

Program Notes:

- A student taking an internship in a field setting in the second semester of their junior year or during their senior year should consult with the department Chair.

MINOR (15 credits)

A Minor is open to all students and requires 5 courses and 15 credits. Courses taken on a satisfactory/unsatisfactory basis cannot be used to satisfy requirements for the Minor. Minors cannot receive Sociology credit for an internship. Students wishing to earn a Minor in Sociology must fill out an application form available in the office.

Required Courses:

- SOC 1000: Introduction to Sociology (3 cr)
- Four sociology elective courses (12 cr)

Program Notes:

- Only one course may be transferred from another university.

Spanish Studies

Chairperson: Carmen Peraita, Ph.D.

Office Location: 303 Saint Augustine Center

Telephone: 610-519-7478

[\[Website\]](#)

About

Spanish is the language that the majority of students in the United States (and in Villanova) chooses to study at the present time for very good reasons: It is the second major language spoken in the world (after Mandarin) and it is the second language spoken in the United States. Therefore it will be very useful and advantageous to know Spanish in any career path that students may choose. Approximately 800 students take Spanish undergraduate courses every semester at Villanova. Students are encouraged to spend summers and semesters abroad in Spain and Central and South America, to obtain a greater proficiency in the language.

MAJOR (30 credits)

The influence of Spanish crosses centuries as well as geographic boundaries. It is a dynamic and exciting language used in diverse parts of the world, such as: Central, South, North America, the Caribbean and Spain. Spanish and its different cultures are taught at Villanova in interdisciplinary courses, in the Liberal Arts Program, Cultural Studies program, and in courses that were designed in response to these developments. The classes provide students with a thorough grounding in the history, politics, cultural production (literatures, film, theater), linguistics, post-colonial experiences, and development of the Hispanic world.

Required Major Courses:

- SPA 1138: [Advanced Grammar] (3 cr) **OR** SPA 1140: [Writing and Stylistics in Spanish] (3 cr)

- SPA 2220: [Literature and Culture of Spain] (3 cr) **OR** SPA 2221: [Literature and Cultural Experience of Latin America] (3 cr)
- SPA 3970: [Research Seminar] (3 cr)
- Seven additional SPA courses above Intermediate (1122) level.

Program Notes:

- Of the 10 Major courses at least 3 must be at the 3000 level (including SPA 3970), two of which must be taken at Villanova.
- One RLL course taught in English with SPA attribute may be accepted for the major.
- Students may obtain up to 6 credits through the Villanova summer program in Cádiz (Spain) or Valparaiso (Chile), and up to 9 credits through an authorized semester program. Contact the ISO for details.

MINOR (12 credits)

The department encourages students to obtain a minor in Spanish if their schedule does not permit them to complete a major. In order to do so, students may come to the Department main office, located in SAC 303 and fill out a form. At the time of graduation and upon completion of the minor requirements, students will be issued a Minor certificate and the minor will appear on their transcript.

Required Minor Courses:

- Four courses above the Intermediate (1122) level

Program Notes:

- Of the four required courses, one must be at the 3000 level and taken at Villanova, or at a Villanova study abroad program (Cádiz or Valparaiso).
- Courses in English do not count for the minor.

Sustainability Studies

Chair: Nathaniel Weston, Ph.D.

Program Director: Steven Goldsmith, Ph.D.

Office Location: Suite G67, Mendel Science Center

Telephone: 610-519-3336

[\[Website\]](#)

About

The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society. The department has three teaching and five research labs; and the department has a full suite of state-of-the-art geospatial software and scientific research equipment.

MINOR (18 credits)

The sustainability minor is open to all students and requires 6 courses and 18 credits (dependent on lab course selections). It is designed for students who wish to deepen and broaden their knowledge of sustainability with a distinctive program of study encompassing the relationship between the environment and society. In addition to taking GEV 3001 (which will replace one course from either the Humanities or Policy Stem), students will select two courses from each of the three stems below: Humanities, Policy, and Science and Technology.

Select two courses from each Stem:

- **Humanities Stem:**
 - HIS 1065: Global Env. History (3 cr)
 - HIS 2276: American Env. History (3cr)
 - HIS 4499: Global Env. History (3 cr)
 - PHI 2121: Environmental Ethics (3 cr)
 - PHI 2430: Eco Feminism (3 cr)
 - PHI 4210: Environmental Philosophy (3 cr)
 - PJ 3000: Selected Topics* (3 cr)
 - PJ 5000: Selected Topics* (3 cr)
 - THL 4330: Christian Environmental Ethics (3 cr)
 - THL 4250: Global Poverty and Justice (3 cr)
 - GEV 3001: Intro to Sustainability Studies (3 cr)

- **Policy Stem:**
 - ECO 3108: Global Political Economy (3cr)
 - ECO 4200: Topics in Economics* (3 cr)
 - GEV 2500: Global Change in Local Places (3 cr)
 - GEV 2520: Urban Geography (3 cr)
 - GEV 2525: Population Geography (3 cr)
 - GEV 3000: Selected Topics in Geo and the Env* (3 cr)
 - GEV 3002: Ecosystem Services (3 cr)
 - GEV 3007: Urban Ecosystems (3 cr)
 - GEV 3570: Land Use Planning (3 cr)
 - GEV 3580: Natural Resources and Conservation (3 cr)
 - GEV 4330: Selected Topics in Env. Policy* (3 cr)
 - GEV 4331: Env. Policy and Management (3 cr)
 - GEV 4332: Water Resource Planning (3 cr)
 - GEV 4333: Environmental Law (3 cr)
 - GEV 4335: Energy Policy (3 cr)
 - GEV 4340: Selected Topics in Env. Issues* (3c r)
 - GEV 4510: Special Topics in Geography* (3 cr)
 - GEV 4517: Sustainable Development (3 cr)
 - MGT 2208: Global Corporate Responsibility (3 cr)
 - MGT 2352: Business in Emerging Markets (3 cr)
 - PA 2000: Public Policy (3 cr)
 - PSC 4275: Special Topics* (3 cr)
 - GEV 3001: Intro to Sustainability Studies (3 cr)

- **Science and Technology Stem:**
 - BIO 3255: Introduction to Ecology (3 cr)
 - BIO 4385: Global Change Ecology (3 cr)
 - BIO 4451/52: Field Ecology and Evolution^ (4 cr)

- BIO 4801: Conservation Biology (3 cr)
- CEE 2211: Transportation Engineering (3 cr)
- CEE 4608: Project & Construction Management (3 cr)
- CEE 4612: CEE Undergrad Research* (3 cr)
- CEE 7829: Sustainability Man Indust (3 cr)
- CEE 4607: Special Topics (3 cr)
- CHE 5715: Alternative Energy (3 cr)
- CHE 5001: Industrial Liquid and Solid Waste (3 cr)
- CHE 4831/32: Chem. Eng. Research*^ (4 cr)
- CHM 1311/01: Inorganic Chemistry^ (4 cr)
- EGR 7110: Climate Change/Sustainability (3 cr)
- EGR 7111: Life Cycle/Impact Assessment (3 cr)
- EGR 7112: Econ/Social Equity Integ. (3 cr)
- ENG 7113: Sustainable Materials (3 cr)
- GEV 1050: Environmental Science I^ (4 cr)
- GEV 1051: Environmental Science II^ (4cr)
- GEV 1052: Environmental Studies I (3 cr)
- GEV 1053: Environmental Studies II (3 cr)
- GEV 3301: Fisheries (3 cr)
- GEV 3302: Agriculture Sciences (3 cr)
- GEV 3003: Environmental Geology (3 cr)
- GEV 3303: Soil Science (3 cr)
- GEV 3305: Energy Systems (3 cr)
- GEV 3306: Alternative Energy (3 cr)
- GEV 3308: Environmental Health (3 cr)
- GEV 432X: Lab Science Courses^ (4cr)
- GEV 4328: Climatology (3 cr)
- GEV 4329: Global Change Research (3 cr)
- GEV 4350: Spec Topics in Env Sci (3 cr)
- GEV 4353: Green Science (3 cr)
- GEV 4345: Biomimicry (3 cr)
- GEV 4355: Tropical Ecology (3 cr)
- GEV 4359: Ecosystem Ecology (3 cr)
- GEV 4512: Medical Geology (3 cr)
- GEV 4515: Terrestrial Ecosystems (3 cr)
- MSE 20XX: Mendel Science Experience*^ (4 cr)
- ME 5130: Intro to Sustainable Energy (3 cr)
- MS 5140: Design of Gravity Water Ntwrks (3 cr)
- MET 1222: Climate Change: Past and Present (3 cr)

Program Notes:

- Students may count 1 course from their major or a relevant core course (including relevant MSE courses) toward the minor).
- Course list may be supplemented by the program director as new courses become available
- * Permission of program director required
- ^ Associated Lab Required, see advisor

Teaching Certification

Chair: Christopher Schmidt, Ph.D., Department of Education and Counseling

Office Location: 302 Saint Augustine Center

Telephone: 610-519-4620

[Website](#)

About

Villanova University's secondary teacher education program is approved by the Pennsylvania Department of Education as satisfying the requirements for teacher certification in 14 subject areas. Students with majors in departments other than Education and Counseling 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 Education majors, including courses in ELL, special education, and student teaching.

Student Teaching is normally taken in the second semester of the senior year. Exploratory-Arts students who may be interested in Secondary Teacher Certification should stop by the Office of Education and Counseling, 302 St. Augustine Center for the Liberal Arts, as soon as possible.

Students enrolled in the Teacher Education Program will have their work reviewed each semester by a department committee to determine progress and professional development for certification. Students must achieve a 3.0 overall GPA and successful completion of the PAPA tests (or satisfaction of the *SAT/ACT exemption) before they are permitted to do student teaching. Students who do not achieve the required cumulative average by spring semester senior year will not be allowed to continue in the education major.

AREAS OF CERTIFICATION: Biology, Chemistry, Citizenship, Communication, English, French, General Science, German, Italian, Latin, Mathematics, Physics, Spanish, Social Studies

Upon successful completion of the major required certification courses, the special education workshops, and ELL courses, and the PAPA, and Praxis II exams, the student will be eligible for certification.

*SAT/ACT exemption: Students who receive a score of at least a 1550 on the SAT, with a minimum score of 500 in each of the three testing sections OR a student who receives at least a score of 23 on the ACT test, will be exempt from taking the PAPA basic skills tests.

Theatre

Chairperson: Valerie M. Joyce, Ph.D.

Office Location: 205 Saint Augustine Center

Telephone: 610-519-4760

[\[Website\]](#)

About

The Villanova University Theatre Department aims to inform and inspire theatre artists, administrators, and scholars who will impact the future of this dynamic art form. Our culture of creativity engages in rigorous study and the practical application of theatrical theories and techniques. We believe art has the power to transform hearts and minds by challenging both individuals and communities.

MINOR (15 credits and practicum)

Undergraduate students may fulfill a Theatre minor by completing five theatre courses (two required/three elective) and a theatre practicum.

Required Minor Courses:

- THE 2029: Fundamental Principles of Acting (3 cr)
- THE 3030: TOP: Scene Study (3 cr)
- Three courses from:
 - THE 2019: The Theatrical Experience (3cr)
 - THE 2030: Advanced Principles of Acting (3 cr)
 - THE 2032: Elements of Dance (3 cr)
 - THE 2033: Advanced Elements of Dance (3 cr)
 - THE 2034: Musical Theatre (3 cr)
 - THE 2051: Creativity (3 cr)
 - THE 3006: Shakespeare on Stage (3 cr)
 - THE 3007: Playwriting (3 cr)
 - THE 4011: Directing the Play (3 cr)
- THE 2040: Theatre Practicum (0 cr)

Program Notes:

- To fulfill the theatre practicum, contact program coordinator [Kevin Esmond](#).

Theology and Religious Studies

Chairperson: Peter Spitaler, Ph.D.

Program Director: Mark Graham, Ph.D.

Office Location: 243 Saint Augustine Center

Telephone: 610-519-4730

[\[Website\]](#)

About

Theological and religious studies as conceived, studied, and advanced at Villanova are interdisciplinary and integrative. Students pursue their objectives from diverse theological and religious perspectives, places them in dialogue with each other, and integrate religious and theological knowledge with experience and other forms of knowing.

Our programs explore the intersections of Catholic theology, religion, and cultures(s) and prepare students for graduate studies and for careers in humanitarian, philanthropic or other non-profit, charitable organizations; and in religious organizations as campus, youth or parish minister, educator, catechist, retreat worker, administrator, counselor, spiritual director or in one of the many other positions such organizations offer.

PRIMARY MAJOR (30 credits)

The primary major emphasizes a broad understanding of Christian and non-Christian theological and religious traditions. It is a stand-alone program, and students may take it in conjunction with another major (i.e., the traditional “double” major).

Required Major Courses:

- THL 1000: Faith, Reason and Culture (3 cr)
- THL 6300: Senior Capstone I (3 cr)
- THL 6500: Senior Capstone II (3 cr)

- Seven Elective Courses in theological and religious studies (21 cr)*

Program Notes:

- * Nine elective credits may be taken from among the approved extra-departmental courses listed on the department's website under the section for this major. The TRS Director of Undergraduate Programs may approve additional courses (for example, a course taken overseas or particular themes or topic courses not listed explicitly in the University Catalog). Because such courses do not carry the Core Theology (CTHL) attribute, they will count toward the Major degree only with prior approval from the Director.
- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed nine credit hours)

SECONDARY MAJOR (24 credits)

The secondary major highlights the interdisciplinary and multidisciplinary nature of theological inquiry and of the study of religion. It must be taken in conjunction with another major and completed concurrently with it.

Required Major Courses:

- THL 1000: Faith, Reason and Culture (3 cr)
- THL 6300: Senior Capstone I (3 cr)
- THL 6500: Senior Capstone II (3 cr)
- Five Elective Courses in theological and religious studies (15 cr)*

Program Notes:

- * Six elective credits may be taken from among the approved extra-departmental courses listed on the department's website under the section for this major. The TRS Director of Undergraduate Programs may approve additional courses (for example, a course taken overseas or particular themes or topic courses not listed explicitly in the University Catalog). Because such courses do not carry the Core Theology (CTHL) attribute, they will count toward the Major degree only with prior approval from the Director.
- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed six credit hours)

MINOR (15 credits)

The minor is open to all students. Students can take the minor in conjunction with any other program in any Villanova College. Once the required coursework is completed, Villanova recognizes the minor at the time of graduation on the official transcript.

Required Major Courses:

- THL 1000: Faith, Reason and Culture (3 cr)
- Four Elective Courses in theological and religious studies (12 cr)*

Program Notes:

- * Three elective credits may be taken from among the approved extra-departmental courses listed on the department's website under the section for this major. The TRS Director of Undergraduate Programs may approve additional courses (for example, a course taken overseas or particular themes or topic courses not listed explicitly in the University Catalog). Because such courses do

not carry the Core Theology (CTHL) attribute, they will count toward the Major degree only with prior approval from the Director.

- Total number of elective courses from outside the TRS Department (including courses taken overseas) must not exceed three credit hours)

Writing and Rhetoric

Director: Dr. Ellen Bonds, Teaching Professor, English

Office Location: 453 Saint Augustine Center

Telephone: 610-519-4657

[\[Website\]](#)

About

As an interdisciplinary program with courses from the Departments of English and Communication, the Program in Writing and Rhetoric offers students opportunities to gain significant knowledge of the rhetorical framework constituting professional, aesthetic and everyday writing. The program will allow students who want to pursue study in writing and communication to do so in a focused and comprehensive way with examination of the theoretical, historical, and philosophical aspects of these disciplines.

CONCENTRATION (24 credits)

In keeping with the English Department's focus on literary texts, the notion of rhetoric informing the Concentration includes textual analysis as well as the more traditional uses of the term, thus bringing the wisdom and imagination of literary discourse into the Concentration. Such a focus on literary texts also underscores the well-known correlation between reading well and writing well. Furthering the Communication Department's focus on orality and persuasion, the Concentration will allow students to develop rhetorically complex understandings of audiences and master of the skills necessary to adapt the written and oral messages for identified audiences.

Required Concentration Courses:

- Three Courses primarily in writing practice at the intermediate or advanced level:
 - ENG 2000: Adv Expository Writing (3cr)
 - ENG 2003: Intro to Creative Writing (3 cr)
 - ENG 2005: Writing of Short Story (3 cr)
 - ENG 2006: Writing of Poetry (3cr)
 - ENG 2007: The Writing of Screenplays (3 cr)
 - ENG 2009: Writing the Traditional Novel (3 cr)
 - ENG 2010: Technical Writing (3 cr)
 - ENG 2011: Writing the Experimental Novel (3 cr)
 - ENG 2012: Advanced Creative Writing (3 cr)
 - ENG 2015: Business Communication (3 cr)
 - ENG 2020: Journalism (3 cr)
 - ENG 2041: Travel Writing (3 cr)
 - ENG 2045: Sp Top in Writing & Rhetoric- Graphic Novels (3 cr) *(when these courses are focused on critical theory)*
 - ENG 2045: Wp Top in Writing & Rhetoric – The Craft of the Popular Essay (3 cr)
 - ENG 2045: Sp Top in Writing & Rhetoric – Professional Writing
 - ENG 2050: Writing for Magazines (3 cr)

- ENG 2060: Desktop Publishing (3 cr)
- ENG 2070: Legal Writing and Analysis (3cr)
- COM 3303: Screenwriting (3 cr)
- COM 3341: Gender & Film (3 cr)
- COM 3341: Media & Society
- COM 3352: Media & Technology (3 cr)
- COM 3353: Media & Politics (3 cr)
- COM 3354: Media Criticism (3 cr)
- COM 3360: Introduction to Journalism (3 cr)
- COM 3361: Journalism Practices (3 cr)
- COM 3363: Broadcast Journalism (3 cr)
- COM 3365: Sports Journalism (3 cr)
- COM 3366: Multimedia Journalism (3 cr)
- COM 3367: Journalism Topics (3 cr)
- COM 3390: Spec Top in Media & Film (3 cr)
- COM 3403: Intercultural Communication (3 cr)
- COM 3406: Gender & Communication (3 cr)
- COM 3462: Public Relations Writing (3 cr)
- COM 3464: Public Relations Campaigns (3 cr)
- COM 4001: Qualitative Research Methods (3 cr)
- Two courses in composition theory, rhetorical theory, critical theory or history of language/cultural texts:
 - ENG 2042: Web Writing Theory & Practice (3 cr)
 - ENG 2043: Writing About US Pop Culture (3 cr)
 - ENG 2045: Sp Top in Writing & Rhetoric (3 cr) (*when these courses are focused on critical theory*)
 - ENG 2050: SP Top in Writing & Rhetoric (3 cr)
 - COM 2240: Theories of Performance Studies (3 cr)
 - ENG 2250: Ways of Reading: Lit Analysis (3cr)
 - COM 2280: Theories of Persuasion (3 cr)
 - COM 2300: Theories of Mass Communication (3 cr)
 - COM 2340: Theories of Visual Communication (3 cr)
 - ENG 3600: From News to Novels (3 cr)
 - COM 2200: Theories of Rhetoric (3 cr)
 - COM 3201: Rhetoric & Social Justice (3 cr)
 - COM 3202: Rhetoric, Identity & Conflict (3 cr)
 - COM 3203: Communication Law & Policy (3 cr)
 - COM 3204: Rhetoric and Democracy (3 cr)
 - COM 3205: Advanced Speechwriting (3 cr)
 - COM 3206: Argumentation & Advocacy (3 cr)
 - COM 3207: African American Rhetoric (3 cr)
 - COM 3208: Rhetoric & Myth (3 cr)
 - COM 3290: Special Topics in Rhetoric (3 cr)
 - CST 2100: Intro. To Cultural Studies (3 cr)
 - PHI 2010: Logic & Critical Thinking (3 cr)
 - PHI 2170: Mass Media Ethics (3 cr)
 - PHI 2180: Computer Ethics (3 cr)
 - PHI 2710: Theories of Knowledge (3 cr)
 - PHI 2750: Philosophy of Art (3 cr)
 - PHI 2760: Philosophy & Literature (3 cr)
 - PHI 3020: History of Ancient Philosophy (3 cr)

- PHI 4140: Phil of Contemporary Music (3cr)
- PHI 4150: Philosophy & Film (3 cr)
- PHI 4200: Philosophy of Language (3 cr)
- One practicum course:
 - ENG 2030: Tutoring Writers – Theory and Practice (3 cr)
 - ENG 2060: Desktop Publishing (3 cr)
 - ENG 2993 **OR** ENG 2996: Internship (*in a related area*) (3 cr)
 - COM 2933 **OR** COM 2996: Communication Internship (3 cr)
 - PJ 4650: Service Learning Practicum (*When the practicum involves a good deal of writing*) (3 cr)
- Two upper level English literature courses (6 cr)

Program Notes:

- Non-Credit bearing internships may also possibly fulfil the *One Practicum Course* requirement if they involve a substantial amount of writing. The internship must be approved by the Director of the Writing and Rhetoric Program.
- Students must have a 3.0 average or better to enroll in the Concentration. To successfully complete the Concentration, students must achieve a 3.0 average in their Concentration courses.

MINOR (18 credits)

Students must complete 18 credit hours, comprising 6 advanced courses numbered 2000 and above.

Required Minor Courses:

- Three courses in writing practice (9 cr)
- Two courses in theory of composition, history of the language, rhetorical theory or critical theory. (6 cr)
- One upper-level English literature course (3 cr)
- Grammar, Style and Punctuation Exam*

Program Notes:

- * by the end of their first semester of work towards the minor, students will have studied for and passed a self-administered WebCT exam covering principles of Standard Edited English, a style sheet as that of the Associated Press, and other rules of grammar, punctuation, and mechanics.