GENERAL INFORMATION

Villanova University is a co-educational Roman Catholic institution, founded by the Order of Saint Augustine in 1842, in Villanova, Pennsylvania. A premier institution of higher education, Villanova provides a comprehensive education rooted in the liberal arts; a shared commitment to the Augustinian ideals of truth, unity and love; and a community dedicated to service to others.

A wide variety of undergraduate and graduate degree programs are offered through the University’s six colleges: the College of Liberal Arts & Sciences, the Villanova School of Business, the College of Engineering, the College of Professional Studies, the M. Louise Fitzpatrick College of Nursing, and the Charles Widger School of Law. With a total enrollment that surpasses 10,000 undergraduate, graduate and law students, Villanova is the oldest and largest Catholic university in the Commonwealth of Pennsylvania. It is located twelve miles west of the historic city of Philadelphia.

The College of Liberal Arts and Sciences at Villanova University offers more than 20 master’s degrees, more than 40 certificates, and PhD programs in Philosophy and Theology. The Office of Graduate Studies is located on the second floor of Vasey Hall, and is open Monday-Friday from 9 a.m. to 5 p.m.

Office of Graduate Studies
Vasey Hall, Room 202
Villanova University
800 Lancaster Avenue
Villanova, PA 19085-1688
Telephone: 610-519-7090
Fax: 610-519-7096
gradinformation@villanova.edu

Complete information about Graduate Arts and Sciences programs and policies may be obtained at gradartsci.villanova.edu. Prospective and current students are advised to consult the web version of the handbook and the websites of the Office of Graduate Studies and individual programs for updated policies and additional information. Information about tuition rates and financial assistance may be obtained from the Office of Financial Assistance and the Bursar’s Office.

Villanova University will not discriminate against any person on any basis prohibited by law, including race, color, national origin, religion, sex, sexual orientation, gender identity, age, veteran status (disabled or Vietnam era), or disability.
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# Course and Program Descriptions

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ACADEMIC CALENDAR: 2019-2020

**Fall 2019***

Aug 26 (M) Classes begin
Sep 02 (M) Labor Day - No Classes
Sep 03 (Tu) Last day for application for Language Examination made at office of the Department of Romance Languages and Literatures, 303 St. Augustine Center
Sep 04 (W) Last day for changes in registration status (drops, adds

**REFER TO “REFUNDS” IN CATALOG**

Sept 07 (Sat) Language Examination, 1:00 p.m.
Sept 15 (Sun) December Graduation Deadline for all graduate students expecting to complete degree requirements at end of Fall 2019 semester
Sept 23 (M) Last day for application for comprehensive examination made at the office of the department chairperson
Oct 11 (F) Mid-term
Oct 14 (M) Semester recess
Oct 21 (M) Classes resume
Oct 25 (F) Registration Advising Begins for Spring 2020 semester.

**CHECK myNOVA PORTAL FOR REGISTRATION DATE**

Nov 15 (F) Last Day for Authorized Withdrawal without Academic Penalty (WX).

**REFER TO “REFUNDS” IN CATALOG**

Nov 16 (Sat) Recommended date for written comprehensive examination; hours and place determined by program
Nov. 26 (Tu) Thanksgiving Recess begins after last class
Dec. 02 (M) Classes Resume
Dec. 06 (F) Thesis/Dissertation due. Instructions for title and approval pages and upload to Proquest can be found on the Office of Graduate Studies website.

Dec 12 (Th) Final Day of Classes
Dec 14-20 (Sat - F) Final Examinations (No exams on Sunday December 15)
Jan. 02, 2020 (Th) Final Grades Due Fall 2019 Semester (12 Noon)
Jan. 31 (F) Last day for submission of work to remove incomplete (“N”) grade
Feb. 14 (F) Last day for “N” grade conversion of final grade (Fall 2019 semester). Grade change forms must be received by Registrar BEFORE 5:00 PM.

*The Human Resource Development (HRD) Program and the online Master of Public Administration (MPA) operate on an eight-week calendar. Please view the Graduate Studies Academic Calendar posted online for these programs.*
ACADEMIC CALENDAR: 2019-2020

Spring 2020*

Jan 13 (M) Classes Begin
Jan 20 (M) Martin Luther King Day (No Classes)
Jan 21 (Tu) Last day for application for Language Examination, made at office of the Department of Romance Languages and Literatures, 303 St. Augustine Center
Jan 22 (W) Last day for changes in registration status (drops, adds REFER TO “REFUNDS” IN CATALOG
Jan 31 (F) May Graduation Deadline for all graduate students expecting to complete degree requirements at end of Spring 2020 semester
Feb 01 (Sat) Language examination, 1:00 p.m.
Feb 03 (M) Last day for application for comprehensive examination made at the office of the department chairperson
Feb. 28 (F) Mid-Term
Mar 02 (M) Semester Recess
Mar 09 (M) Classes Resume
Mar 11 (W) Grades Due (Noon)
Mar 13 (F) Registration Advising Begins for Summer and Fall semesters CHECK MYNOVA PORTAL FOR REGISTRATION DATE
Mar 14 (Sat) Recommended date for written comprehensive examination; hours and place determined by program
Apr 03 (F) Last Day for Authorized Withdrawal without Academic Penalty (WX). REFER TO “REFUNDS” IN CATALOG
April 08 (W) Easter Recess Begins after last class
Apr 14 (Tu) Classes Resume
Apr 24 (F) Thesis/Dissertation due. Instructions for title and approval pages and upload to Proquest can be found on the Office of Graduate Studies website.
Apr. 30 (Th) Final Day of Classes
May 02-08 (Sat - F) Final Examinations (No exams on Sunday May 5)
May 11 (M) Final Grades Due Spring 2019 semester (12 Noon)
May 15-16 (F - Sat) Baccalaureate and Commencement
June 26 (F) Last day for submission of work to remove incomplete (“N”) grade
July 10 (F) Last day for “N” grade conversion of final grade (Spring 2019 semester). Grade change forms must be received by Registrar BEFORE 5:00 p.m.

*The Human Resource Development (HRD) Program and the online Master of Public Administration (MPA) operate on an eight-week calendar. Please view the Graduate Studies Academic Calendar posted online for these programs.
Grad Studies —Liberal Arts and Sciences

Administration

Graduate Dean  Emory H. Woodard IV, Ph.D.
Director       Emily McCloskey, MA, MPA

Programs

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GAR: Garey Hall
MEN: Mendel Hall
SAC: Saint Augustine Center for the Liberal Arts
STM: Saint Mary’s Hall
TOL: Tolentine Hall

Graduate Studies Office

The Office of Graduate Studies—Liberal Arts and Sciences is located on the 2nd floor of Vasey Hall in room 202. The telephone number is 610-519-7090 and the fax number is 610-519-7096. The main email address is: gradinformation@villanova.edu.
Villanova University

VILLANOVA UNIVERSITY
MISSION STATEMENT

Villanova University is a Catholic Augustinian community of higher education, committed to excellence and distinction in the discovery, dissemination and application of knowledge. Inspired by the life and teaching of Jesus Christ, the University is grounded in the wisdom of the Catholic intellectual tradition and advances a deeper understanding of the relationship between faith and reason. Villanova emphasizes and celebrates the liberal arts and sciences as foundational to all academic programs. The University community welcomes and respects members of all faiths who seek to nurture a concern for the common good and who share an enthusiasm for the challenge of responsible and productive citizenship in order to build a just and peaceful world.

Enduring Commitments

In pursuit of this mission, we commit ourselves to academic excellence, to our values and traditions, and to our students, alumni and the global community.

To foster academic excellence, we:

- Create a diverse community of scholars, united and dedicated to the highest academic standards;
- Emphasize the liberal arts and sciences as our foundation and foster in our students active engagement, critical thinking, life-long learning and moral reflection;
- Concern ourselves with developing and nurturing the whole person, allowing students, faculty and staff to grow intellectually, emotionally, spiritually, culturally, socially and physically in an environment that supports individual differences and insists that mutual love and respect should animate every aspect of university life;
- Encourage interdisciplinary research, teaching and scholarship;
- Affirm the intrinsic good of learning, contemplation and the search for truth in undergraduate and graduate education;
- Support a curriculum that encourages both a global perspective and an informed respect for the differences among people and cultures.

To honor our values and tradition, we, as a Catholic University:

- Believe that the dialogue between faith and reason drives the pursuit of knowledge and wisdom, and fosters St. Augustine’s vision of learning as a community ethos governed by love;
- Seek to understand, enrich and teach the Catholic intellectual tradition through our curricula, scholarship and activities in ways that engage diverse religious, intellectual and cultural traditions in a vigorous and respectful pursuit of truth and wisdom in every area of humanity;
Graduate Studies

• Provide opportunities for students, faculty and staff to seek guidance from Catholic intellectual and moral traditions, while always welcoming people from all faiths, cultures and traditions to contribute their gifts and talents to our mission;
• Respect and encourage the freedom proposed by St. Augustine, which makes civil discussion and inquiry possible and productive;
• Look to the Order of St. Augustine to preserve our Augustinian character, by showing appropriate preference to Augustinians in faculty and staff appointments, and by welcoming their presence in influence in our university community.

To serve our students, alumni and global community, we, as an Augustinian University:

• Encourage students, faculty and staff to engage in service experiences and research, both locally and globally, so they learn from others, provide public service to the community and help create a more sustainable world;
• Commit to the common good, and apply the knowledge and skills of our students and faculty to better the human condition;
• Encourage our students and faculty to pursue virtue by integrating love and knowledge, and by committing themselves to research and education for justice, with a special concern for the poor and compassion for the suffering;
• Respect a worldview that recognizes that all creation is sacred and that fosters responsible stewardship of the environment;
• Include our alumni as an integral part of the Villanova community;
• Value highly our relationship with neighboring communities, especially Radnor Township and the City of Philadelphia.
ACADEMIC MISSION
OF GRADUATE ARTS AND SCIENCES

OBJECTIVES
The graduate programs seek to integrate general education, cultural improvement, and professional excellence.

The aims of these programs are:

• To extend and deepen knowledge by scholarly research;
• To assist those who wish to secure specialized training in order to improve their occupational competency;
• To supply the need of advanced training for special purposes, especially in the fields of teaching and other human services;
• To offer the graduate student the opportunity to join with the faculty of the University in the common pursuit of learning wherein the students are encouraged to develop according to their individual capacities and to learn to live and work together in a community of scholars.

DEGREE PROGRAMS
Doctorate of Philosophy in Philosophy and Theology.
Master of Theological Studies.
Master of Public Administration.

RECOGNITION
Villanova University is accredited by the Middle States Association of Colleges and Secondary Schools. The university is authorized by the Pennsylvania Department of Higher Education to grant the Doctor of Philosophy degree.

ACADEMIC INTEGRITY
Academic integrity lies at the heart of the values expressed in the University’s mission statement and inspired by the spirit of Saint Augustine. When one comes to Villanova, one joins an academic community founded on the search for knowledge in an atmosphere of cooperation and trust. The intellectual health of the community depends on this trust and draws nourishment from the integrity and mutual respect of each of its members. The university’s full policy and related procedures should be read on the Provost’s web pages.
ACADEMIC PROGRESS, PROBATION, AND DISMISSAL

MASTER’S DEGREE STUDENTS – SATISFACTORY PROGRESS AND PROBATION

All Master’s students are required to maintain a grade-point average of at least 3.0, and cannot be approved for the comprehensive examination or graduation unless this average has been maintained.

A student whose GPA falls below 3.0 is notified by email that he/she is on academic probation, and he/she is given up to nine additional credits to bring the cumulative GPA up to a 3.0; if they fail to do so, they are dismissed from the university. Students enrolled in accelerated programs (HRD and online MPA) are permitted to take three credits in a session for the duration of their probation.

It is possible that a student offered up to nine credits to bring the cumulative GPA back above 3.0 achieves a grade or grades during the probationary period that is so low it becomes mathematically impossible for him/her to rise above 3.0 in additional credits. In those cases, the student is dismissed before nine credits are taken. A student who succeeds in raising the cumulative GPA above 3.0 for one or more semesters after being on academic probation, but in a later semester falls below a 3.0 cumulative GPA for a second time will be dismissed from the university.

In some cases, if a student's cumulative GPA has fallen so far below a 3.0 GPA that his/her chances of rising above 3.0 in one additional semester of work or in up to nine additional credits is impossible, this student may also be immediately dismissed from the university before being placed on probation.

A student is not required to repeat courses in which the grade of F has been earned unless the courses are specifically required by his/her graduate program. The grade of F, however, is computed in the cumulative GPA, always listed on the transcript and jeopardizes a student’s academic standing. If a student who holds a graduate assistantship, tuition scholarship or fellowship is placed on academic probation, the award is automatically rescinded.

DISMISSAL

There are a variety of circumstances that could lead to a Master’s degree student dismissal. Please see the policies on academic performance and probation, non-academic performance expectations and academic integrity for more details. Once a student has been dismissed, he or she is permitted one appeal. The student should have a valid reason to appeal dismissal such as medical or other extenuating circumstances that would cause the university to consider allowing an exception to the policy to be made. Students wishing to appeal a dismissal decision should put the request in writing and first address it to their program director. The program director will review the request with the members of the department and forward it to the Graduate Dean with a recommendation. In the event of a disagreement within the department or between the department and the DGS, written recommendations from all parties may be submitted. The Graduate Dean will consider the appeal and the department's recommendation and make a decision. Once the decision is communicated to the student in writing, no further appeals will be considered.
DOCTORAL DEGREE STUDENTS – SATISFACTORY PROGRESS

The satisfactory progress of doctoral students is assessed annually by the individual doctoral programs on the basis of academic performance, as well as by meeting the various deadlines for language examinations, qualifying examinations, dissertation proposal defense, and any other specified requirements. The policy for satisfactory progress for Master’s students does not apply.

A student who fails to maintain satisfactory progress will be advised in writing of corrective steps to take by the Graduate Program Director, in consultation with the Graduate Dean, and apprised of the consequences of failing to take those steps. A student who fails to maintain satisfactory progress may lose eligibility for financial aid or have one’s candidacy terminated. Additionally, each doctoral program maintains its own standards of satisfactory academic progress and corrective procedures, and all students must familiarize themselves with them. In cases of evident failure to achieve progress, a student may be dismissed from the degree program without a probationary period.

DISMISSAL

If a student's progress is determined by the program to be unsatisfactory, the Graduate Program Director will confer with the Office of Graduate Studies, typically the Dean of Graduate Studies, regarding the termination of that student’s candidacy for the degree.

The department will communicate to the student the reasons for recommending dismissal to the Graduate Dean, and Office of Graduate Studies will proceed with the formal termination of candidacy by sending an official letter to the student and copying relevant faculty and administrators.

The effective date of dismissal will be included in the official notification from the Office of Graduate Studies. Typically the dismissal is effective immediately, or at the end of the then-current semester. However, the program may request a later effective date of dismissal if it provides compelling reasons to do so.

Once a student has been dismissed, he or she is permitted one appeal. The student should have a valid reason to appeal dismissal such as medical or other extenuating circumstances that would cause the university to consider allowing an exception to the policy to be made. Students wishing to appeal a dismissal decision should put the request in writing and first address it to their program director. The program director will review the request with the members of the department and forward it to the Graduate Dean with a recommendation. In the event of a disagreement within the department or between the department and the DGS, written recommendations from all parties may be submitted. The Graduate Dean will consider the appeal and the department's recommendation and make a decision. Once the decision is communicated to the student in writing, no further appeals will be considered.
Graduate Studies

APPEALS PROCESS
Occasionally, situations arise in which a graduate student in the College wishes to appeal a decision rendered by the Graduate Studies Office or a standing policy that directly affects him/her in some way. This could arise in a number of contexts, including:

- Request for transfer credits
- Request for a time extension to remove an Incomplete (“N”) grade
- Request for a waiver of the “Application to Graduate” deadline
- Request for extension of the 6-yr time-to-graduate requirement
- Request for waiver of Comprehensive Exam deadline
- Request to take a course overload (> 9hrs/semester)
- Request for extension of deadline to “DROP/ADD” courses or to withdraw (WX”) courses
- Dismissal from a graduate program for violations of the academic integrity code or the university’s standards of conduct

Students wishing to appeal a decision should submit a formal appeal in writing to the director of his/her graduate program, carefully stipulating the reasons for the appeal. Supporting documentation may be necessary for some appeals.

The graduate director will review the student’s appeal following the program’s own standard practices in a timely fashion, and submit its formal recommendation to the Graduate Dean. The Dean will review the appeal and the program’s recommendation and will contact the student with a final decision, copying the Chairperson and/or Program Director of the graduate program involved. In reaching this decision, the Graduate Dean will be most concerned with any perceived failures in due process that might have occurred to ensure fair and consistent treatment of all students.

APPLYING FOR GRADUATION
Students must use MyNova during the dates specified in the online academic calendar to apply for graduation. Failure to apply via the online system by the deadlines listed will result in the student being charged a $100 late fee.

AUDIT
If students desire to audit courses and not receive credit, they are required to submit a non-matriculated application, with the application fee, and furnish the same records as students who are applying for degree credit. Certain departments do not permit students to audit courses, so please check with the department you are interested in for details. Additionally, adding the course as an audit is only possible if space permits. The student who has been granted audit status will not be responsible for the assignments and examinations required in the course. Although no credit or grade is received, the same tuition and fees are charged for audit as for credit courses. The regulations applicable to changes in registration status (drops & adds) also apply to audit students.
CHANGES IN REGISTRATION STATUS
Students should confer with the chairperson of their major department prior to the time of registration to be reasonably certain that they are qualified for the courses for which they expect to enroll. All changes in registration status (except complete withdrawal from the program) must be recommended by the student’s chairperson and requested in writing by the student as per the dates listed in the Academic Calendar. Students who have completely withdrawn from the program may not resume their studies unless they have been formally re-admitted. Students who withdraw without approval will receive F grades.

Students who have been admitted to Graduate Studies must register during the period announced in the Academic Calendar. The student needs the advice and approval of his/her chairperson/program director or advisor before officially enrolling in courses.

Finally, except for Counseling (CHR), Human Resource Development (HRD), and Theology PhD students, a student must seek formal permission from his/her graduate program and the Graduate Dean to enroll in 12 credits in the fall or spring semesters, or for more than 6 credits in the summer. Students requesting an overload should have at least a grade point average of 3.50.

COMPLAINTS ABOUT GRADES AND FACULTY PERFORMANCE
Villanova University’s policy and procedure regarding complaints about grades and faculty performance are explained in detail online on the Provost’s website.

DISCLOSURE OF STUDENT RECORDS
Villanova, in accordance with the Family Education Right and Privacy Act (FERPA) of 1974 has adopted a student records policy to address the following issues: (1) disclosure of directory information; (2) confidentiality of identifiable information; and (3) student rights to inspect, review, and seek amendment of their records. The policy is available on the Provost's Website.

DISMISSAL – MASTER'S DEGREE STUDENTS
There are a variety of circumstances that could lead to a Master’s degree student dismissal. Please see the policies on academic performance and probation, non-academic performance expectations and academic integrity for more details. Once a student has been dismissed, he or she is permitted one appeal. The student should have a valid reason to appeal dismissal such as medical or other extenuating circumstances that would cause the university to consider allowing an exception to the policy to be made. Students wishing to appeal a dismissal decision should put the request in writing and first address it to their program director. The program director will review the request with the members of the department and forward it to the Graduate Dean. The Graduate Dean will consider the appeal and the department’s recommendation and make a decision. Once the decision is communicated to the student in writing, no further appeals will be considered.

DISMISSAL – DOCTORAL DEGREE STUDENTS
If a student’s progress is determined by the program to be unsatisfactory, the Graduate Program Director will confer with the Office of Graduate Studies, typically the Dean of Graduate Studies, regarding the termination of that student’s candidacy for the degree.
The department will communicate to the student the reasons for recommending dismissal to the Graduate Dean, and Office of Graduate Studies will proceed with the formal termination of candidacy by sending an official letter to the student and copying relevant faculty and administrators.

The effective date of dismissal will be included in the official notification from the Office of Graduate Studies. Typically the dismissal is effective immediately, or at the end of the then-current semester. However, the program may request a later effective date of dismissal if it provides compelling reasons to do so.

Once a student has been dismissed, he or she is permitted one appeal. The student should have a valid reason to appeal dismissal such as medical or other extenuating circumstances that would cause the university to consider allowing an exception to the policy to be made. Students wishing to appeal a dismissal decision should put the request in writing and first address it to their program director. The program director will review the request with the members of the department and forward it to the Graduate Dean. The Graduate Dean will consider the appeal and the department’s recommendation and make a decision. Once the decision is communicated to the student in writing, no further appeals will be considered.

**DROP, ADD AND REFUND POLICIES**

Students in on-campus programs who wish to drop or add a course must do so during the drop/add period at the beginning of the semester. The dates of the drop/add period are indicated in the academic calendar. It generally ends 7 days after the start of classes. New students should complete a drop/add form (available from their department), which they give to their graduate program director or department chairperson for approval; returning students may drop or add courses themselves, using their registration PIN through MyNova.

Students may not add a course after the end of the drop/add period. In order to drop a course after this period, they must request an authorized withdrawal. See Withdrawal from a Course.

Students who drop a class on or after the first day of classes will not receive a 100% refund of tuition. They are liable for tuition charges for each course as follows:

- Up to the first week, the student will receive a refund of 80%
- Up to the second week, the student will receive a refund of 60%
- Up to the third week, the student will receive a refund of 40%
- Up to the fourth week, the student will receive a refund of 20%
- Beyond the fourth week, no refund will be available

Programs operating on an accelerated eight-week calendar with two sessions per semester (online MPA and HRD, both campus and online) operate according to the following refund schedule:

- Up to the first week, the student will receive a refund of 100%
- Up to the second week, the student will receive a refund of 75%
- Up to the third week, no refund will be available.

For additional information regarding refunds, please refer to the Bursar’s Office website.
Villanova University

FULL TIME AND HALF TIME ENROLLMENT STATUS
Full-time Master’s students are expected to complete all the requirements for their degree in two academic years. All students pursuing Master’s degrees must complete their degree requirements within a six-year time period. Students enrolled in accelerated programs (HRD & online MPA) must complete their degree requirements within a four-year time period.

The minimum credit load for full-time status is 6 credits/fall or spring semester, 3 credits in the summer. Students in Graduate Arts and Sciences may also be considered full-time if their credit load in a semester falls below this minimum but they meet any of the following conditions:

1. The student is a graduate assistant or tuition scholar. Graduate assistants and tuition scholars must be enrolled in at least one course, which may be credit-bearing or non-credit-bearing. Note that students in master’s degree programs are not permitted to hold an assistantship or scholarship beyond the period of two academic years.
2. The student is completing the program within the normal two-year full-time period of study and the department chair/program director confirms the status.
3. The student is enrolled in Thesis (3 credit) or Dissertation (3 credit) CSC 9025 (Grand Challenges of Computing) (3 credit), or CSC 9020 (Independent Study) (3 credit).
4. The student is enrolled in Thesis Continuation (0 credit), Dissertation Continuation (0 credit), or CSC 9021 (Independent Study Continuation) (0 cr), with the approval of the program director and Graduate Dean’s office.
5. Master’s level students may enroll as full-time students in Thesis Continuation or Independent Study Continuation for a maximum of two terms.
6. Students enrolled in a doctoral program are considered enrolled full-time as long as they are registered in a course, regardless of credit.
GRADUATE GRADING SYSTEM

Grades are recorded at the end of each semester or summer session. Grades are available on MyNova as soon as they are posted by the faculty. Students who require a printed grade report should contact the Office of the Registrar. Any inaccuracy must be reported in writing to the Registrar immediately.

The work of the student is graded according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outstanding</td>
</tr>
<tr>
<td>A–</td>
<td>Excellent</td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
</tr>
<tr>
<td>B</td>
<td>Fair</td>
</tr>
<tr>
<td>B–</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>C+</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>C</td>
<td>In Progress</td>
</tr>
<tr>
<td>N</td>
<td>Audit</td>
</tr>
<tr>
<td>WX</td>
<td>Approved Withdrawal</td>
</tr>
</tbody>
</table>

Students are not required to repeat courses in which the grade of F has been received, unless the courses are specifically required by the program in which they are enrolled, the decision resting with the chairperson of their major department. However, the “F” grade is computed in the cumulative average. Grades of S and U are not calculated in a student’s cumulative average.

The WX grade may be given only by the Dean of Graduate Studies. The WX grade indicates approved withdrawal from a graduate course without academic penalty; the parameters governing possible financial refunds are described in the REFUNDS section of our web pages. The IP grade is reserved for thesis and dissertation courses and CSC 9020, 9021 only.

After the dates stipulated in the Academic Calendar, only officially documented, substantive non-academic reasons (such as prolonged serious illness or significant employment difficulties) will be considered sufficient to receive a WX grade (See “Withdrawal from a Course” section on page 23). No WX grades will be granted for purely academic reasons after the deadline. The same principle applies to requests for changes from letter grade to audit (AU) status.

Grades are part of the student’s permanent record. Typically, no changes other than N grades can be made. These grade changes must be completed by the dates listed in the Academic Calendar.

In graduate study, the student is expected to do more than pass the required courses. In addition, students must maintain a specific average. This average, known as the grade-point average, derived from the grades and credit hours of the courses taken, is computed by multiplying the number of credits for each course the student has attempted by the authorized quality points for the grades received and dividing the total quality points by the total credit hours attempted. The grade A merits 4 quality points; A–=3.67; B+=3.33; B=3.00; B-=2.67; C+=2.33; C=2.00; F=0; N=incomplete
**INCOMPLETE GRADES AND CHANGE OF GRADES**

**Incomplete Grades**
Instructors may give students who do not complete all the academic assignments for a course a grade of Incomplete (N), provided they have discussed the missing assignments with the student and formulated a plan for the completion of the work. The N grade automatically converts to an F grade if the work is not completed and submitted to the instructor within one month’s time from the end of the term.

**Change of Grade**
Students receiving an incomplete (N grade) at the end of a semester must submit the missing academic work to their instructor within a month from the end of the semester. The instructor has two weeks to grade the work. When the work is graded, the professor should submit a change of grade request to the department chairperson and Dean of Graduate Studies for their approval. The official deadline dates are listed for each semester in the Academic Calendar.

**Extensions**
Requests for additional time to complete course requirements beyond the deadline must be submitted using the Extension for Incomplete Grades form found online. The form must indicate the expected date for the completion of the work. The request requires the approval of the professor, the graduate director or chairperson of the student’s department, and the Dean of Graduate Studies. The Dean’s office will notify the Registrar and the student’s grade will reflect a “N” until the approved deadline date. The Dean of Graduate Studies will not approve more than three extensions.

**Conversion of N grade to NF**
If an extension is not granted, the grade originally assigned to the student will convert to a “NF” grade once the official deadline for change of grade has passed. This “NF” will be calculated in the student’s grade point average as a “F” grade.

**LEAVE OF ABSENCE POLICIES**

**Non-Medical Leave of Absence**
Villanova recognizes that it is sometimes necessary for students to interrupt their enrollment for a period of time and take a leave of absence. Students may take a non-medical leave for a variety of reasons including, for example, to attend to academic, personal, or financial matters.

**Non-Medical Leave of Absence Process**
A student who wishes to take a non-medical leave of absence must take the following steps:

1. Submit a completed "Request for Non-Medical Leave of Absence" form to the Dean’s office of the student’s academic college or the Dean of Students office, or their designee; and
2. Meet with a designated staff or faculty member to review the request.
Graduate Studies

Students may request a non-medical leave at any time during the semester, but must complete such requests – including any requisite evaluation and related paperwork – no later than the last day of classes in a semester. If a student does not complete a non-medical leave request by the last day of classes, the University will deem the request late and consider it for the following semester.

If the University finds good cause, a leave may be granted. Because every student’s situation is different, the terms of a non-medical leave will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student’s eligibility to return to campus following the leave.

Medical Leave of Absence
Students may request a medical leave of absence (MLOA) if they experience health situations that significantly limit their ability to function successfully or safely in their role as students.

MLOA Process
A student seeking a MLOA must take the following steps:

1. Submit a completed “Request for Medical Leave of Absence” form (available on MLOA website) to the Dean of Graduate Studies, or their designee; and
2. Meet with a designated staff or faculty member to review the request.

The student may be asked to schedule and undergo an evaluation by the Student Health Center and/or the University Counseling Center before a leave is granted. This evaluation will occur after the student has met with the Dean, Associate/Assistant Dean, or their designee. The student may be asked to sign a release allowing the Student Health Center and/or the University Counseling Center to discuss their evaluation of the student with the Dean, Associate/Assistant Dean, or their designee who is reviewing the request.

After evaluating the student, the Student Health Center and/or the University Counseling Center will determine whether a significant health issue has compromised the student’s health, safety or academic success, and will submit an individualized recommendation to the Dean, Associate/Assistant Dean, or their designee regarding the student’s request for a MLOA.

The Dean, Associate/Assistant Dean, or their designee reviewing the request will make the final determination whether to grant the MLOA and will notify the student of the decision in writing. Because every student’s situation is different, the terms of a MLOA will be determined individually, including the duration of leave, any restrictions from living in residence halls or coming on campus or attending University events, and any conditions for the student’s eligibility to return to campus following the MLOA.

Students may request a MLOA at any time during the semester, but must complete such
requests – including any requisite evaluation and related paperwork for the Dean’s office – no later than the last day of classes in a semester. If a student does not complete a MLOA request by the last day of classes, the University will deem the request late and consider it for the following semester.

**Return Following a Leave**

Some students who take a leave will have no requirements attached to their return to the University. However, students may be subject to specific requirements for their return based on the circumstances of their departure. Any conditions or requirements for return will be based on an individualized assessment of the student, including consideration of current medical knowledge and/or the best available objective evidence. The goal of these conditions is to prepare the student for a successful return to the University.

A student who is placed on a leave of absence for any reason, voluntary or involuntary, may apply to return to the University by writing to the Dean’s office that granted the leave. The student must demonstrate that the student has met any conditions or requirements that were specified for the student’s return to the campus community.

Students on leave must complete their request to return submissions by December 1 for the spring semester, April 1 for the summer semester, and July 1 for the fall semester. These deadlines ensure that the appropriate University officials have enough time to review the student’s request. The University will attempt to be flexible and review requests completed within a reasonable time after the relevant deadline. Nevertheless, if there is information missing from the request, and/or the University needs additional time to contact the student’s treating provider(s) (for health-related leaves), the University may consider the student’s return for the following semester than the semester for which the student initially sought to return.

For more information about student leaves of absence, please see the full Student Leave of Absence Policy.

**Parental Accommodation**

The Office of Graduate Studies offers support for graduate students who need to take leave in connection with the birth of and/or full time care of a new child during their period of enrollment. The goal in offering this support is to allow graduate students to continue their studies with as little disruption as possible. Parental Accommodation is intended to enable the graduate student to continue to make progress toward the degree. Consequently, it does not grant additional semesters of funding, nor does it change the length of time permitted to complete degree requirements and to graduate. This policy requires communication and cooperation in good faith between the student seeking the accommodation, the faculty, and the student’s department. The terms of the policy are as follows:

1. To be eligible for Parental Accommodation, the graduate student must be the primary and full-time caregiver of a newborn child or a child five years of age or younger who is newly placed in the home.
2. The graduate student must submit a written request no less than three months before the expected date of the start of the accommodation period (if possible) to the Program Director who will forward it with a recommendation to the Graduate Dean for review.

3. Graduate students may receive up to six weeks of Parental Accommodation within the first six weeks immediately following the birth, adoption, or foster placement of a child. The six weeks of Parental Accommodation must be taken consecutively immediately following the birth or placement of the new child. Students seeking Parental Accommodation shall provide documentation to Graduate Studies sufficient to demonstrate that they are the full-time primary care provider of the child.

4. During Parental Accommodation, the graduate student may attend classes and work on course assignments to the extent possible, but the student’s program director should advise the professors in these courses to be flexible about attendance and assignment deadlines during the period of accommodation. Upon the student’s request, the student will be granted Incompletes in these courses, with the understanding that the courses should be completed by the end of the following semester.

**FUNDING**

When a leave is approved prior to the start of a new semester, funding will not continue for the leave period. Students who are approved for any type of leave after the add/drop date may continue to receive funding until the end of the semester when the leave was started.

*Funding cannot be “banked” and taking a leave of any kind does not extend funding time upon return. Funding is only available for the original time period offered.***

**NON-ACADEMIC PERFORMANCE EXPECTATIONS**

It is expected that graduate students in the College will maintain a consistently high level of professional behavior beyond that stipulated in their academic pursuits (e.g., minimum GPA). It is assumed that students will treat faculty, staff, and fellow students with respect, and their behavior should at all times reflect standards of professional excellence commensurate with their post-baccalaureate status and the values and principles of the professions to which they aspire. Severe or repeated violations of reasonable performance expectations may result in dismissal from the university.

**NON-DISCRIMINATION**

Students are selected wholly on the basis of individual merit. There shall be no discrimination against any student on any basis prohibited by law, including race, color, national origin, religion, sex, sexual orientation, gender identity, age, veteran status (disabled or Vietnam era), or disability.

**SEXUAL ASSAULT, SEXUAL HARASSMENT, AND SEXUAL MISCONDUCT**

Villanova University seeks to foster and maintain a community of mutual respect and concern for all of its members. There can be no greater violation of the terms of that
community, or of the essential dignity of any member of it, than an act of sexual assault, sexual harassment, or other sexual misconduct. These acts constitute the deepest affront to University standards and will not be tolerated in any form.

The full text of Villanova’s Sexual Assault, Sexual Harassment, and Other Sexual Misconduct Policy can be found on the Graduate Arts and Sciences' website.

TIME TO COMPLETE DEGREE
Master’s Degree Students
Students in the Master’s and Certificate programs must complete their degree requirements within a six-year time period from the date they first enrolled in the University (in any admitted status). Students enrolled in the online MPA or on-campus or online HRD programs must complete all degree requirements within a four-year time period.

Doctoral Degree Students
Full-time students in the Philosophy and Theology PhD programs must complete all their degree requirements within an eight-year time period. Part-time doctoral students must complete all their degree requirements within a twelve-year time period. Requests for an extension will only be granted for up to two additional years and must be approved by the Dean of Graduate Studies (see Appeals Process). Any further extensions will only be approved in exceptional circumstances with proper documentation.

TRANSFER OF CREDIT
From another Institution:

- Requests for transfer credit must be made at the time of application.
- Students accepted into a Master’s degree program that requires up to 39 credits of coursework may receive transfer credit for up to a maximum of 6 credits (usually 2 courses) taken at another accredited higher education institution. Students accepted into a Master’s degree program that requires over 40 credits of coursework may receive transfer credit for up to a maximum of 9 credits (usually 3 courses) taken at another accredited higher education institution. Approval is subject to approval by the Graduate Program Director and Graduate Dean.
- The courses must be graduate-level, and must have been taken within the past six years. A graduate course used to complete an applicant’s undergraduate degree at another institution may not be transferred and used to complete a graduate degree at Villanova.
- Only courses with grades of B or better will be considered.
- Only applicants accepted as matriculated students may be approved for transfer of credits.
- Transfer credits are not accepted for a stand alone, non-degree certificate program.
- When requesting transfer credits, the applicant should submit the following materials to the director of the graduate program: 1. the relevant official transcripts (regardless of whether a degree was earned), and 2. course descriptions and syllabi.
Students already enrolled in a graduate program at Villanova University who wish to take a graduate course at another institution for credit toward the graduate degree here must obtain written approval from the Graduate Program Director and the Dean before the course is taken. Transfer of credit requests for currently enrolled students are only approved in extraordinary circumstances in which the student is not able to take the course at Villanova for personal or professional reasons. No transfer credit will be approved for requests received after the course has been taken.

- This policy does not apply to graduate courses taken at Villanova University by Villanova undergraduates.
- Students enrolling in PhD Programs should consult directly with their respective Program Director regarding Transfer of Credit Policies.

From another Villanova Master’s Program:
An individual who has already earned a Master’s degree at Villanova who seeks to earn a second Master’s degree at Villanova (see Earning a Second Master’s Degree) may request permission to apply some of the credits earned in the first program toward the requirements in the second program. No more than 25% from the first degree may be applied to the credits required for the second degree.

The request should be made at the time of application to the second Master’s program. The student must formally apply and be accepted for admission to the second graduate program and must obtain that program’s approval for the courses to be “accepted” from the other degree because certain course credits (e.g., internships) may not be sufficiently relevant to the second degree. That is, the second program will determine which courses from the first program, up to a maximum of 25% of the credits, will be accepted toward the second Master’s degree. Finally, any specific requirements beyond coursework in the second program (e.g., comprehensive exams or a thesis) must be completed. If approved by the program director, the request should be sent by the Chair or Program Director to the Dean’s Office.

UNDERGRADUATES IN GRADUATE COURSES

Eligibility
Villanova undergraduates may take graduate courses in the College of Liberal Arts and Sciences, provided they meet the following standards set down by the College: they must have senior standing (in terms of credits, not in terms of years at Villanova; certain exceptions exist for some programs), at least a 3.0 cumulative grade point average, and sufficient background and preparation for a graduate-level course. The student must obtain the appropriate permissions (advisor, dean, chair, course instructor); a special gold card, obtainable from the departments, is used for these permissions. Faculty and program directors should ensure that proper advising is provided to undergraduate students with respect to taking graduate courses.
Course Limits
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.

Double-counting
Up to nine hours or nine credits of graduate courses taken by undergraduates may double count – both for the bachelor’s degree and for the master’s degree, whether or not a student is formally enrolled in a combined bachelor’s-master’s program. If an undergraduate student completes additional graduate courses beyond the three, the additional course(s) will count toward the undergraduate degree and be included in the student’s undergraduate record unless the Graduate Dean in CLAS, or the appropriate Associate Dean responsible for graduate programs in the other colleges, approves the additional course(s) counting toward the graduate degree only. Please view policy on the Provost's Office website. (Exceptions to this policy have been approved for certain combined bachelor-master programs.) Students enrolled in the combined bachelor master programs are required to maintain a graduate grade-point average of at least 3.0.

WITHDRAWAL FROM THE UNIVERSITY
Students who wish to leave and who do not plan to return to the University should request a withdrawal. Requests for complete withdrawal from the University must be made by letter to the Dean of Graduate Studies. If students have completely withdrawn from a program, they may not resume their studies unless they have been formally re-admitted. Students who withdraw without approval will receive an F grade in any courses in which they are enrolled unless a grade of WX has been approved.

WITHDRAWAL FROM A COURSE
Until the final day for authorized withdrawal from courses listed in 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 in writing. The Dean has the sole authority to grant withdrawals without academic penalty; however, requests for withdrawals after the published deadline will rarely be approved. Only officially documented, substantive non-academic reasons (such as prolonged serious illness or significant employment difficulties) will be considered sufficient to receive a WX grade. Note that a withdrawal without permission will receive a “W” grade, which is calculated as an “F” in computing one’s quality point average. If a student is given permission to withdraw from a course, the student is still responsible for the tuition costs as per the university’s refund policy.
FOR PROCEDURAL INFORMATION ON THE FOLLOWING TOPICS PLEASE VISIT OUR WEB PAGES ON POLICIES AND RESOURCES.

APPLYING FOR GRADUATION
BACHELOR/MASTER PROGRAMS
COMPREHENSIVE EXAMINATIONS
DEGREE REQUIREMENTS
EARNING A SECOND MASTER’S DEGREE
ENROLLING IN GRADUATE COURSES IN ANOTHER DISCIPLINE
ENROLLING IN TWO PROGRAMS SIMULTANEOUSLY
INTERNATIONAL STUDENTS
LANGUAGE REQUIREMENT
PERMISSION TO PARTICIPATE IN COMMENCEMENT
STUDENT STATUS CATEGORIES
THESIS
TUITION AND FEES
TUITION REMISSION AND STIPENDS
BIOLOGY

GENERAL
The Department of Biology offers both a Master of Arts degree and a Master of Science degree. The MS is intended to give students significant experience in the design and execution of an independent research project whereas the MA program provides for more structured advanced studies in a wider variety of disciplines. Both programs may be pursued on a part-time or full time basis. The Department is committed to course rotation such that most graduate courses will alternate daytime offerings with evenings or weekends over a four year cycle to accommodate the needs of part-time students.

DEPARTMENTAL REQUIREMENTS
Graduates from accredited institutions who wish to work toward either the Master of Science or Master of Arts degree in Biology should have completed a minimum of 24 semester hours of undergraduate biology including genetics. Applicants should also have completed one year of calculus (or one semester of calculus and one semester of statistics) and one year, with laboratory, in the areas of general physics, general chemistry, and organic chemistry. The Department of Biology reserves the right to require certain undergraduate courses that may be deemed necessary.

MASTER OF SCIENCE IN BIOLOGY (with thesis)
The Master of Science is a thesis degree in which research conducted by the student under the direction of a thesis mentor culminates in the writing of a thesis and a defense of the thesis research. Thesis research may be undertaken in the areas of animal and plant physiology, vertebrate and invertebrate zoology, ecology, behavior, developmental biology, systematics and evolution, microbiology, cell and molecular biology, virology, immunology, parasitology, and genetics.

Specific requirements for all students in this program are the successful completion of a minimum of 30 credits which may include a maximum of 10 credits for research (BIO 9007, 9008, 9307, 9308, 9309). All students must take the 1 semester, 0 credit Research Prospectus course (BIO 8920), preferably in their first semester of graduate study. There is no language requirement. All full time students in this program are expected to attend the weekly Department of Biology Seminar.

For the first semester of study, each student will be assigned an academic advisor. Preferably before the onset of the second semester of graduate study, the student will have chosen a faculty member willing to serve as the student’s thesis mentor. The thesis
mentor and two additional faculty, one of whom may be from outside the Biology Department, chosen by the student and the mentor will form an advisory committee for the student. The committee and the student will determine the plan of study for that student with regard to coursework, taking into account the nature of the thesis research and the long-term goals of the student. The committee will also be involved in evaluating the student’s progress toward successful completion of the degree.

Each student is required to prepare a written proposal of the anticipated thesis research, and to orally present and defend that proposal. Upon completion of the research and of the written thesis, the results of the thesis will be orally presented and defended. These two oral presentations and defenses fulfill the comprehensive examination requirement.

**MASTER OF ARTS IN BIOLOGY**

The Master of Arts in Biology is a non-thesis degree based on the successful completion of a minimum of 33 credits of graduate coursework at the 7000-level or above. All students pursuing this degree program must take the 1 semester, 0 credit Research Prospectus course (BIO 8920), preferably in their first semester of graduate study, at least one course with a seminar component/presentation (usually a *Special Topics, Advanced Topics*, or section of BIO 8900:Seminar), and a minimum of 4 courses with laboratory other than Directed Research (BIO 9007, 9008). A maximum of 4 credits of Directed Research can be applied to the MA degree. Students who wish to specialize may concentrate their coursework in one of two areas of academic focus within the department: (1) Cell, Molecular and Developmental Biology and (2) Ecology, Evolution and Organismal Biology. MA students who take a minimum of 24 credits in one of these fields (please see department for lists of courses in each category) will receive a degree with a concentration in either area indicated on their transcript (e.g., “Master of Arts, Biology, with concentration in Cell, Molecular and Developmental Biology” or “Master of Arts, Biology, with concentration in Ecology, Evolution and Organismal Biology”). The department also offers certificate programs in these two areas. Each student must pass a comprehensive examination near the end of their studies. There is no language requirement. All full time students are expected to attend the weekly Department of Biology Seminar.
CERTIFICATE AND ADVANCED CERTIFICATE IN BIOLOGY
The Graduate Program in the Biology Department offers two certificate programs (Certificate and Advanced Certificate) for students who do not wish to pursue the full Master’s degree, at least initially. Students complete coursework primarily in one of two areas – Cell, Molecular, and Developmental Biology or Ecology, Evolution and Organismal Biology. See the departmental website for more information on courses listed in each subject area. The Certificate of Graduate Study in Biology requires a minimum of 16 credit hours of courses and at least three lab courses from the list associated with the subject area. The Certificate of Advanced Graduate Study in Biology requires a minimum of 24 credit hours of courses and at least four lab courses from the list associated with the subject area.

These programs are suitable for either full- or part-time students; matriculated students or students with non-matriculated status may enter the certificate program, the latter at the discretion of the Biology Graduate Committee. Students must maintain a 3.0 GPA in their program courses in order to receive a certificate. Such qualified students may subsequently apply for acceptance to either the MA or the MS degree programs.

BS/MS PROGRAM IN BIOLOGY
A select group of highly qualified students are invited to apply for the combined bachelor/master degree program. Students should apply directly to the program director in their first or second year of undergraduate study. Students will then be permitted to double-count up to nine credits of graduate study towards both their bachelor and master degrees. Students are eligible for up to six credits of tuition remission in the last semester(s) of their master’s degree. Students will work closely with their advisor to ensure the appropriate graduate coursework is taken while still enrolled as an undergraduate student. Students must maintain a graduate GPA of 3.00 and students are not permitted to enroll in more than 16 credits while still enrolled as an undergraduate student. Students should refer to the Combined Bachelor Master Programs website for detailed policies and procedure.
DEPARTMENTAL PROGRAM
(Note that the semester of course offerings may change. Consult website for current scheduling.)

BIO 7105 Vertebrate Ecology (4 cr) Prerequisites: BIO 3012 or BIO 3255 or BIO 3405 or BIO 4305, or one equivalent course, or consent of instructor.
DR. CURRY

BIO 7151 Biogeochemistry (2 cr) Two lectures a week
STAFF

BIO 7152 Biogeochemistry Laboratory (2 cr) Coreq: BIO 7151. Two laboratory periods per week.
STAFF

BIO 7201 Ecosystem Ecology (3 cr) Prerequisite: course in ecology or permission of instructor.
DR. CHAPMAN

BIO 7205 Comparative Physiology (4 cr) Pre-req: A course in animal physiology or invertebrate zoology. Two lectures and two laboratory periods per week.
DR. OLSON

BIO 7321 Immunology (formerly BIO 8321) (2 cr) Two lectures per week.
DR. BAMEZAI

BIO 7322 Immunology Laboratory (formerly 8322) (2 cr) COREQUISITE: BIO 7321. Five hours of laboratory per week.
DR. BAMEZAI

BIO 7331 Cancer Biology (3 cr) Prerequisite: Coursework in cell and/or molecular biology. STAFF

BIO 7385 Global Change Ecology (4 cr) Prerequisite: course in ecology or permission of instructor.
DR. LANGLEY

BIO 7451 Behavioral Ecology (3 cr) Prerequisite: undergraduate course in ecology or animal behavior or permission of instructor.
DR. IYENGAR

BIO 7555 Molecular Ecology and Evolution (4 cr) Pre-reqs: Undergraduates: genetics, molecular biology; Graduates: two of the following: genetics, evolution, ecology, or molecular biology. Two lectures and two laboratory periods per week.
STAFF Occasional Offering

BIO 7601 Paleobiology (3 cr) Pre-req: A course in either Ecology or Evolution. Three lectures per week.
STAFF Occasional Offering
BIO 7705 Plant Ecology E (4 cr) Two lectures and two laboratory periods per week. STAFF Occasional Offering

BIO 7755 Plant Ecophysiology Two lectures and two laboratory periods per week. STAFF

BIO 7805 Biostatistics and Experimental Design (4 cr) Three lectures and one laboratory period per week. DR. RUSSELL

BIO 7905 Eukaryotic Microbiology (4 cr) Two lectures and two laboratory periods per week. STAFF Occasional Offering

BIO 7940 Special Topics in Biology (2 cr)

BIO 7950 Special Topics in Cell, Molecular, and Developmental Biology (2 cr)

BIO 7955 Biodiversity and Systematics (4 cr) Three lectures and one laboratory period per week. DR. BAUER

BIO 7960 Advanced Topics in Cell, Molecular, and Developmental Biology (3 cr)

BIO 7962 CMDB Laboratory (1 cr) Three hours laboratory work per week.

BIO 7970 Special Topics in Ecology, Evolution and Organismal Biology (2 cr)

BIO 7980 Advanced Topics in Ecology, Evolution and Organismal Biology (3 cr)

BIO 7982 EEOB Laboratory (1 cr) Three hours laboratory work per week.

BIO 8051 Advanced Bacteriology (2 cr) Pre-req: A previous course in microbiology, molecular biology, or genetics is helpful, but not required. Two lectures per week. DR. WILSON

BIO 8052 Advanced Bacteriology Laboratory (2 cr) Coreq: BIO 8051. Two laboratory periods per week. DR. WILSON

BIO 8101 Molecular Genetics (3 cr) Pre-req: Undergraduate biochemistry or molecular biology. Three lectures per week. STAFF

BIO 8151 Molecular Cell Biology (3 cr) Three lectures per week.
BIO 8171 Molecular Developmental Biology (2 cr) Pre-req: Genetics, and undergraduate course in cell, development, or molecular biology; the instructor may waive any of these prerequisites based on relevant work experience of the student. Three lectures per week. STAFF

BIO 8172 Molecular Development Lab Prerequisites: genetics; plus a cell, development, or molecular biology course; BIO 8295; or permission of instructor. Co-requisite: BIO 8171. (2 cr) STAFF

BIO 8205 Imaging Technology (4 cr) Two lectures and two laboratory periods per week. STAFF

BIO 8251 Endocrine Physiol/Pharmacology (2 cr) Pre-req: A course in animal physiology with laboratory. Two lectures per week. DR. GARDNER

BIO 8252 Endocrine Physiol/Pharmacology Laboratory (2 cr) Coreq: BIO 8251. Two laboratory periods per week. DR. GARDNER

BIO 8295 Experimental Cell and Molecular Methods Two hours lecture and five hours laboratory per week. DR. BAMEZAI/DR. WYKOFF

BIO 8321 Advanced Immunology (3 cr) Prerequisite: BIO 7321 or another immunology course or permission of instructor. DR. BAMEZAI

BIO 8451 Molecular Evolutionary Genetics (3 cr) Three lectures per week. DR. JACKMAN

BIO 8555 Neurophysiology (4 cr) Pre-req: A course in physiology or consent of the instructor. Three lectures and one laboratory period per week. DR. STEPHENS

BIO 8601 Pharmacology (2 cr) Pre-reqs: Organic chemistry and a course in physiology or permission of the instructor. Two lectures per week. DR. GARDNER

BIO 8602 Pharmacology Laboratory (2 cr) Coreq: BIO 601. Two laboratory periods per week. DR. GARDNER Occasional Offering

BIO 8655 Recombinant Gene Technology (4 cr) Pre-reqs: Organic Chemistry and undergraduate Genetics. Two lectures and two laboratory periods per week. DR. DIBENEDETTI Occasional Offering
BIO 8705 Virology (4 cr) Two lectures and two laboratory periods per week. STAFF

BIO 8900 Seminar (1 cr) STAFF

BIO 8910 BS/MS Research Thesis Preparation Co-requisite: BIO 8920 Restricted to Juniors in the Combined BS/MS degree program in Biology (2 cr) STAFF Fall semester

BIO 8920 Research Prospectus (0 cr) STAFF Fall semester

BIO 8940 Advanced Topics in Biology (2 cr)

BIO 8941 Advanced Topics in Biology Lab (2 cr)

BIO 9007 Directed Research I (2 cr) Pre-req: Consent of chairperson.

BIO 9008 Directed Research II (2 cr) Pre-req: Consent of chairperson.

BIO 9080 Thesis Continuation This course is offered for 0 credits and is classified as a Thesis/Dissertation Continuation.

BIO 9102 Graduate Biology Topics (2 cr) MS Students only with consent of Thesis committee

BIO 9103 Graduate Biology Topics (3 cr) MS Students only with consent of Thesis committee

BIO 9104 Graduate Biology Topics (4 cr) MS Students only with consent of Thesis committee

BIO 9303 BS/MS Graduate Thesis Direction (2 cr) DR. IYENGAR Fall Semester

BIO 9304 BS/MS Graduate Thesis Direction (2 cr) DR. IYENGAR Spring semester

BIO 9305 BS/MS Graduate Thesis Direction (3 cr) DR. IYENGAR Fall semester

BIO 9306 BS/MS Graduate Thesis Direction (3 cr) DR. IYENGAR Spring semester

BIO 9307 Thesis Research I (2 cr)

BIO 9308 Thesis Research II (3 cr)

BIO 9309 Thesis Research III (5 cr)
DEPARTMENT REQUIREMENTS

MASTER OF SCIENCE IN CHEMISTRY
A graduate program leading to the degree of Master of Science is offered by the Department of Chemistry with concentrations in the following areas: analytical chemistry, biochemistry, inorganic chemistry, materials chemistry, organic chemistry and physical chemistry. Students are eligible to be admitted as matriculated students if they have a bachelor’s degree in chemistry or biochemistry. Students with a degree other than a BS or BA in chemistry or biochemistry will be considered for admission on an individual basis.

A minimum of 30 credits is required for the MS degree and students may choose a thesis or a non-thesis degree option. Full-time students are required to pursue the thesis option and take six graduate courses for a total of 18 credits. The remaining 12 credits will be covered by the research courses CHM 7807-7810. Two of the following core courses are required of full-time students: advanced analytical chemistry, advanced inorganic chemistry, advanced organic chemistry, advanced physical chemistry, and advanced biochemistry.

The student will plan and complete a research project under the guidance of the student’s research director. An advisory committee will evaluate the student’s progress during the first year. When a student has completed her/his research and his/her thesis is approved by the research director, the student will defend his/her thesis in a seminar presented to the Department. An off-campus thesis option is also possible for employees of participating companies who are able to conduct research at their site of employment; such students have both an industrial supervisor and a Villanova academic advisor.

Part-time students, such as those employed in the chemical industry, are required to pursue a non-thesis option and take 10 graduate courses, three of which are the core courses (see above). Seven additional courses will consist of elective graduate courses on topics of interest to the student and up to two of these additional courses can be additional core courses.

COMBINED BACHELOR/MASTER PROGRAM IN CHEMISTRY
A select group of highly qualified students are invited to apply for the combined bachelor/master degree program (thesis option only). Students should apply directly to the department chair in their junior year of undergraduate study with the support of their proposed research advisor. Students will then be permitted to double-count up to nine credits of graduate study towards both their bachelor and master degrees. Students are eligible for a graduate assistantship with up to twenty-one credits of tuition remission in the last year of their master’s degree. Students will work closely with their advisor to ensure the appropriate graduate coursework is taken while still enrolled as
an undergraduate student. Students must maintain a graduate GPA of 3.00. Students should refer to the Combined Bachelor Master Programs website for detailed policies and procedure.

Further information about the department can be found at: www1.villanova.edu/villanova/artsci/chemistry.html
DEPARTMENTAL PROGRAM

All courses are 3 credits each unless otherwise noted.

CHM 7100 Quantum Mechanics
CHM 7200 Thermodynamics/Statistical Mechanics
CHM 7222 Organic Structure Analysis
CHM 7292 Core Organic Chemistry
CHM 7391 Core Inorganic Chemistry
CHM 7494 Core Physical Chemistry
CHM 7517 Environmental Chemistry
CHM 7595 Core Analytical Chemistry
CHM 7693 Core Biochemistry
CHM 7807, 7808, 7809—MS Research I, II and III
CHM 7810—MS Thesis
CHM 8229 Organic Reactions and Synthesis
CHM 8313 Solid State and Materials Chemistry
CHM 8314 Physical Methods in Chemistry
CHM 8315 Organometallics
CHM 8325 Introductory Polymer Chemistry
CHM 8331 Bioinorganic Chemistry
CHM 8410 X-Ray Crystallography
CHM 8622 Metabolic Basis of Disease
CHM 8641 Chemical and Biochemical Imaging
CHM 8643 Toxicology
CHM 8645 NMR Spectroscopy
CHM 8663 Biochemical Parasitology
CHM 8665 Enzymes
CHM 8990 Graduate Chemistry Practicum (1 cr)
CHM 9080—Thesis Continuation (0 cr)
CHM 9221, 9222, 9223, 9224—Special Topics in Organic Chemistry I-IV
CHM 9331, 9332—Special Topics in Inorganic Chemistry I-II
CHM 9333 Chemistry and Industry
CHM 9441, 9442, 9443—Special Topics in Physical Chemistry I-III
CHM 9447 Computational Chemistry
CHM 9551, 9552, 9553, 9554—Special Topics in Analytical Chemistry I-IV
CHM 9661, 9662, 9663, 9664—Special Topics in Biochemistry I-IV
Classical Studies at Villanova University is concerned with the languages, literatures, thought, and culture of the Greco-Roman world from Homer in the eighth century B.C. to St. Augustine in the fifth century A.D.

**PROGRAM REQUIREMENTS**
The MA in Classical Studies at Villanova University offers three possible tracks: (1) Greek/Latin, (2) Latin, or (3) Classical Culture. All tracks are available either on campus or online.

**COURSE REQUIREMENTS:**
Students must complete a total of 30 course credits (10 courses) for the degree and maintain a GPA of at least 3.0. Students are required to take two literature survey courses: LAT 7250 History of Latin Literature and GRK 7250 History of Greek Literature. (Students without background in Latin and/or Greek may take the courses in English.) The remaining courses will be a combination of literature courses and courses on classical culture.

**COMPREHENSIVE EXAMINATIONS:**
Students in the Latin track must pass a classical language translation exam in Latin prose and poetry. Students in the Greek/Latin track must pass a translation exam in Greek and Latin prose and poetry. Students in the Classical Culture track must pass an essay exam on Greek and Latin literature.

**RESEARCH PORTFOLIO**
Students will complete a research portfolio consisting of the following:

1. Latin literature survey paper
2. Greek literature survey paper
3. Special topic paper

The portfolio papers are written in conjunction with courses.

**MODERN LANGUAGE TRANSLATION EXAM:**
Students have the option of taking a translation exam of classical scholarship in French, German, or Italian.

**COMBINED BA/MA PROGRAM**
This combined BA/MA 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 (9 credits) that count toward both their undergraduate and graduate degree.
ANCIENT WORLDS CERTIFICATE
Students may elect to pursue a certificate in ‘Ancient Worlds’ through the Graduate Program in Liberal Studies by completing 3 additional Classics-related courses (9 credits), including LST 7100 Foundation: Ancient.

COURSE OFFERINGS
Below is a sampling of our courses. Please visit our program website for a full listing.

Latin Courses
LAT 7150 Prose Composition
LAT 7250 History of Latin Literature
LAT 7270 Epigraphy/Paleography
LAT 7290 Rome 133 BC to 31 BC
LAT 7291 Rome 31 BC to AD 118
LAT 8051 Cicero
LAT 8150 Caesar
LAT 8250 Catullus
LAT 8350 Livy
LAT 8450 Tacitus
LAT 8550 Suetonius
LAT 9050 Roman Drama
LAT 9251 Vergil
LAT 9350 Ovid
LAT 9450 Horace

Ancient Greek Courses
GRK 7250 History of Greek Literature
GRK 8150 Greek Historians
GRK 8250 Attic Orators
GRK 8350 Plato
GRK 8450 Homer
GRK 8550 Greek Tragedy
GRK 8551 Greek Comedy

Classical Studies Courses
CLA 7301 Archaeology: Greece
CLA 7301 Archaeology: Rome
CLA 7301 Archaeology: Pompeii & Herculaneum
CLA 7301 Greece & Rome in Art and Culture

For more information about the MA in Classical Studies, please contact Dr. Valentina DeNardis, Director of Classical Studies. (valentina.denardis@villanova.edu)
Communication concerns the creation, placement, and management of purposive messages for the realization of individual, organizational, and/or societal goals, while acknowledging the consequences and complexities of interacting with various audiences in various contexts. Our graduate programs focus on developing leaders capable of strategic and ethical thinking, speaking, writing and research on communication problems. To be effective leaders in the practice and study of communication, students learn to dynamically engage communication problems through a principled approach and are equipped with the methodological tools to evaluate the efficacy of the solutions they develop. The programs prepare students for careers or further graduate study in advertising, advocacy, consulting, corporate communication, health communication, human resources/relations, journalism, leadership, media management, new media, organizational communication, and public relations.

The department offers a program of study leading to a Master of Arts (MA) in Communication degree. The department also offers five Certificates of Graduate Study in the following areas: Communication & Critical/Cultural Studies; Journalism & New Media; Mediated Communication; Organizational Communication; and Public Relations & Advertising. MA students typically satisfy the requirements of a Graduate Certificate en route to the MA degree and use a Certificate in one of the five areas toward a degree specialization tailored to meet their career and academic goals under the advisement of graduate faculty mentors. Students who do not wish to pursue the full Master’s degree, at least initially, may use a Certificate of Graduate Study as a post-baccalaureate stepping stone toward career advancement or further graduate study. Students who already have a Master’s degree may use a Graduate Certificate to enhance their graduate education with a communication specialization.

**Master of Arts Program Requirements**

**Core Courses (Required).** Communication theory and research are the foundation of graduate study in the department. After being oriented to graduate study within the program, students are required to engage coursework in communication theory and at least one of the two required courses in methodology, qualitative or quantitative research methods in communication, prior to engaging any other coursework in the program.

**Focal Courses (Electives).** Upon completion of foundational coursework in the program, students engage focal courses in the discipline. To ensure adequate exposure to the multiple dimensions of communication, students complete two courses within each of the following focal areas: Principles, Practices and Contexts. Principles courses focus on the overarching philosophical, ethical, and methodological issues relevant to the study and practice of communication in multiple contexts. Practices courses focus on the strategic application of communication principles to the creation of messages within particular contexts. Contexts courses focus on the places, spaces, situations, and modalities within which principled communication has significant impact. Each elective course falls under one of these three areas.
Completion of a Degree Capstone
To culminate studies toward the MA in Communication degree, students must complete a capstone experience by successfully completing either a comprehensive examination plus 5-6 additional elective course credits (students may opt to take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course under the advisement of their graduate faculty mentor) or a written six-credit Master’s Thesis. The details of the capstone requirement are listed below.

Capstone Requirement Options
Non-thesis Option: After completing a minimum of 21 credits, students may apply to complete a written take-home comprehensive examination. The examination includes questions from two areas: Research Methods (either COM 8001 Qualitative Research Methods or COM 8002 Quantitative Research Methods) and an elective course in the student’s area of specialization. Students may be invited to orally defend their written responses in order to demonstrate sufficient competency.

Thesis Option: Students may apply for permission from the program to submit a written thesis and complete an oral defense as satisfaction of the capstone requirement. Work on the thesis will earn the equivalent of two courses (6 credits) toward the degree. The thesis project will be designed and completed under the supervision of an advisor, who must be graduate faculty in communication, and who is assisted by a committee of at least two other faculty members or professional consultants, one of whom must be from Communication. Students must have completed all required courses and a total of 21 credits and have formed a thesis committee approved by the program prior to registering for thesis credits.

In summary, the MA degree requires completion of at least 33 credit hours as follows:
• Required courses (10 hrs.):
  COM 8008 Orientation to Graduate Study (1 hr.) and
  COM 8100 The Communication Perspective (3 hrs.) and
  COM 8001 Qualitative Research Methods (3 hrs.) and
  COM 8002 Quantitative Research Methods (3 hrs.)

  Note: COM 8008, COM 8100 and either COM 8001 or COM 8002 must be completed prior to or concurrent with any other course.

• At least two focal courses in each of the following areas (5-6 hours; students may opt to take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course under the advisement of their graduate faculty mentor):
  Principles (focus on the overarching philosophical, ethical, and methodological issues relevant to the study and practice of communication in multiple contexts.)
  Practices (focus on the strategic application of communication principles to the creation of messages within particular contexts.)
Contexts (focus on the places, spaces, situations, and modalities within which principled communication has significant impact.)

- Completion of Degree Capstone: either a comprehensive examination plus 5-6 additional elective course credits (students may opt to take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course under the advisement of their graduate faculty mentor) or a written Master’s Thesis (6 credits).

Additional Notes:
- With program approval, students may substitute up to 2 graduate courses (up to 6 credits) from outside of Graduate Studies in Communication that productively complement program offerings.
- No more than 2 independent study courses (up to 6 credits) will be counted toward MA degree requirements;
- No more than 3 one-credit courses will be counted toward MA degree requirements including the required one-credit Orientation.
- Students pursuing a Masters degree are eligible to receive a Graduate Certificate. See the section on Certificate Programs for requirements and policies.
- Students undertaking the thesis option may use Thesis 1 & 2 to satisfy the requirement for focal courses in the three areas of Principles, Practices and Contexts with the Graduate Director’s approval.
- Certain courses are offered in a variety of blended in-person and online formats. See Graduate Director or program website for current offerings.

Combined Bachelor/Master Program in Communication
Exceptional Communication majors interested in obtaining a Master of Arts in Communication in conjunction with their Bachelor of Arts can earn both degrees in an accelerated timeframe through the combined BA/MA program. This program allows qualified undergraduate majors to take graduate level courses during their senior year and complete the remaining requirements for the Master’s degree during a fifth year of study. Graduate courses (up to 10 credits) taken during the senior year count toward both undergraduate degree requirements as well the course requirements for the graduate program. With completion of all undergraduate requirements, students are awarded a Bachelor of Arts degree at the end of their fourth year of study and then continue in the graduate program.

Students should apply directly to the program director in their junior year of undergraduate study. Students will then be permitted to double-count up to ten credits of graduate study towards both their bachelor and master degrees. Students will work closely with their advisor to ensure the appropriate graduate coursework is taken while still enrolled as an undergraduate student. Students must maintain a graduate GPA of 3.00 and students are not permitted to enroll in more than 16 credits while still enrolled as an undergraduate student. Students should refer to the Combined Bachelor Master Programs website for detailed policies and procedure.
Master of Arts Program Courses

Core Courses
COM 8008 - Orientation to Graduate Study
COM 8100 - The Communication Perspective
COM 8001 - Qualitative Research Methods
COM 8002 - Quantitative Research Methods

Principles Courses
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8200 - Teambuilding & Small Group
COM 8207 - Organizational Communication
COM 8210 - Leadership Communication
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
COM 8301 - Strategic Public Relations
COM 8304 - Journalism
COM 8307 - Visual Communication & Culture
COM 8308 - Theories & Effects of Mass Com
COM 8309 - Public Opinion
COM 8310 - New Media

Practices Courses
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8102 - Persuasion & Advocacy
COM 8203 - Org. Research & Consulting
COM 8206 - Diversity & Organizing
COM 8208 - Public Communication Campaigns
COM 8300 - Public Relations Writing
COM 8302 - Advertising
COM 8306 - Media Production
COM 8320 - Digital Media Design
COM 8009 - Personal Promotion*
COM 8010 - Becoming an Academic*
COM 8011 - Health Promotion Messages*
COM 8314 - Photoshop*
COM 8315 - Video Shooting Lab*
COM 8316 - Audio Production*
COM 8317 - Basic Web Design*
COM 8318 - Developing Crisis Communication Materials*
COM 8401 - Special Topics in Qualitative Research*
COM 8402 - Special Topics in Quantitative Research*
COM 8403 - Special Topics in Applied Organizational Communication*
COM 8404 - Special Topics in Media Production*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements
**Contexts Courses**
COM 8003 - Internship in Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8012 - Storytelling: Communication, Culture, Craft *
COM 8013 - IGR Dialogue *
COM 8101 - Performance Studies
COM 8201 - Health Communication
COM 8204 - Conflict & Negotiation
COM 8205 - Intercultural Communication
COM 8209 - International Public Relations
COM 8303 - Mass Media Industries
COM 8305 - Media Literacy
COM 8319 - Cultural Studies
COM 8321 - Critical Studies in Advertising
COM 8322 - Audience Analysis

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

**Certificate Programs**
The department offers Certificates of Graduate Study in the following five areas: Communication & Critical/Cultural Studies; Journalism & New Media; Mediated Communication; Organizational Communication; and Public Relations & Advertising. For students who do not wish to pursue the full Master’s degree but who seek a focused course of study, the Graduate Certificate can serve as a stand-alone option. For students pursuing a Master’s degree in Communication one of the Graduate Certificates can be used to focus and enhance your graduate education with a communication specialization. Students wishing to pursue more than one certificate may do so. However, only Core Courses (COM 8001, COM 8002, COM 8008, COM 8100) and one Required or Elective course may be counted toward multiple certificates.

**Certificate Program Requirements**
Core Courses. Communication theory and research are the foundation of graduate study in the department. After being oriented to graduate study within the program (COM 8008), students are required to engage coursework in the communication perspective (COM 8100) and one course in methodology, qualitative (COM 8001) OR quantitative (COM 8002) research methods in communication, prior to engaging any other coursework in the program.

**Elective Courses.** In addition to completing COM 8008: Orientation to Graduate Study, COM 8001: Qualitative Research Methods, or COM 8002: Quantitative Research Methods, and COM 8100: The Communication Perspective, students complete any Required Courses and Elective Courses from any of the five Graduate Certificates in Communication as listed below. Students pursuing Certificates are able to take courses outside of the Communication department. However, two of the electives must be Communication courses.
Graduate Studies

Communication & Critical/Cultural Studies
Engages the critical study of communication and cultural practices and the social contexts of power within which discourses are produced, circulated, and consumed.

Required:
COM 8319 - Cultural Studies

Electives (choose two):
COM 8003 - Internship in Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8012 - Storytelling: Communication, Culture, Craft *
COM 8013 - IGR Dialogue *
COM 8101 - Performance Studies
COM 8204 - Conflict & Negotiation
COM 8212 - Communication & Advocacy
COM 8305 - Media Literacy
COM 8307 - Visual Communication & Culture
COM 8310 - New Media
COM 8321 - Critical Studies in Advertising
COM 8311 - Communication & Identity
COM 8401 - Special Topics in Qualitative Research*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

Journalism & New Media
Engages the evolution and implications of reporting through digital communication from the key vantage points of users, consumers, producers (professionals and amateurs) and industries.

Required:
COM 8304 – Journalism
COM 8310 - New Media

Electives (choose one):
COM 8003 - Internship in Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8012 - Storytelling: Communication, Culture, Craft *
COM 8013 - IGR Dialogue *
COM 8101 - Performance Studies
COM 8102 - Persuasion & Advocacy
COM 8302 - Advertising
COM 8303 - Mass Media Industries
Villanova University

COM 8305 - Media Literacy
COM 8306 - Media Production
COM 8307 - Visual Communication & Culture
COM 8308 - Theories & Effects of Mass Com
COM 8309 - Public Opinion
COM 8321 - Critical Studies in Advertising
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
COM 8320 - Digital Media Design
COM 8321 - Critical Studies in Advertising
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
COM 8320 - Digital Media Design
COM 8321 - Critical Studies in Advertising
COM 8322 - Audience Analysis
COM 8009 - Personal Promotion*
COM 8011 - Health Promotion Messages*
COM 8314 - Photoshop*
COM 8315 - Video Shooting Lab*
COM 8316 - Audio Production*
COM 8317 - Basic Web Design*
COM 8401 - Special Topics in Qualitative Research*
COM 8402 - Special Topics in Quantitative Research*
COM 8404 Special Topics in Media Production*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

Mediated Communication
Engages the dynamic production, distribution, exhibition and consumption of communication by users, audiences and media organizations.

Required:
COM 8310 - New Media or COM 8305 - Media Literacy
AND
COM 8306 - Media Production or COM 8320 - Digital Media Design

Electives (choose one):
COM 8003 - Internship in Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8101 - Performance Studies
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
COM 8302 - Advertising
Graduate Studies

COM 8303 - Mass Media Industries
COM 8305 - Media Literacy
COM 8306 - Media Production
COM 8307 - Visual Communication & Culture
COM 8308 - Theories & Effects of Mass Com
COM 8309 - Public Opinion
COM 8320 - Digital Media Design
COM 8321 - Critical Studies in Advertising
COM 8322 - Audience Analysis
COM 8011 - Health Promotion Messages*
COM 8314 - Photoshop*
COM 8315 - Video Shooting Lab*
COM 8316 - Audio Production*
COM 8317 - Basic Web Design*
COM 8401 - Special Topics in Qualitative Research*
COM 8402 - Special Topics in Quantitative Research*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

Organizational Communication
Engages communication as a process occurring within organizations, as well as the role of communication in structuring relationships, values, identities and cultures central to the organizing process.

Required:
COM 8207 - Organizational Communication

Electives (choose two):
COM 8003 - Internship in Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8012 - Storytelling: Communication, Culture, Craft *
COM 8013 - IGR Dialogue *
COM 8101 - Performance Studies
COM 8102 - Persuasion & Advocacy
COM 8200 - Teambuilding and Small Group
COM 8201 - Health Communication
COM 8203 - Org. Research & Consulting
COM 8204 - Conflict & Negotiation
COM 8205 - Intercultural Communication
COM 8206 - Diversity & Organizing
COM 8210 - Leadership Communication
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
Villanova University

COM 8011 - Health Promotion Messages*
COM 8318 - Developing Crisis Communication Materials*
COM 8401 - Special Topics in Qualitative Research*
COM 8402 - Special Topics in Quantitative Research*
COM 8403 - Special Topics in Applied Organizational Communication*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

Public Relations & Advertising
Engages theoretically based strategic communication designed to influence audience behavior in a variety of contexts.

Required:
COM 8301 - Strategic Public Relations
   AND EITHER
COM 8208 - Public Communication Campaigns
   OR
COM 8300 - Public Relations Writing

Electives (choose one):
COM 8003 - Internship Communication
COM 8004 - Communication Directed Study
COM 8005 - Communication Special Topics
COM 8012 - Storytelling: Communication, Culture, Craft *
COM 8013 - IGR Dialogue *
COM 8101 - Performance Studies
COM 8102 - Persuasion & Advocacy
COM 8200 - Teambuilding and Small Group
COM 8201 - Health Communication
COM 8207 - Organizational Communication
COM 8208 - Public Communication Campaigns
COM 8209 - International Public Relations
COM 8300 - Public Relations Writing
COM 8302 - Advertising
COM 8304 - Journalism
COM 8305 - Media Literacy
COM 8306 - Media Production
COM 8309 - Public Opinion
COM 8320 - Digital Media Design
COM 8321 - Critical Studies in Advertising
COM 8211 - Communication & Identity
COM 8212 - Communication & Advocacy
COM 8322 - Audience Analysis
COM 8009 - Personal Promotion
Graduate Studies

COM 8011 - Health Promotion Messages*
COM 8314 - Photoshop*
COM 8315 - Video Shooting Lab*
COM 8316 - Audio Production*
COM 8317 - Basic Web Design*
COM 8318 - Developing Crisis Communication Materials*
COM 8401 - Special Topics in Qualitative Research*
COM 8402 - Special Topics in Quantitative Research*
COM 8403 - Special Topics in Applied Organizational Communication*
COM 8404 - Special Topics in Media Production*

* One-credit seminar. May take two 1-credit courses along with Orientation (COM 8008) instead of a 3-credit elective course to fulfill degree requirements

Certain courses are offered in a variety of blended, in-person and online formats. See Graduate Director or program website for current offerings.

Additional Notes:
As part of the certificate program students may choose to do only one of the following:
  3 one-credit courses in communication or in an approved related field
  or
  COM 8003 Internship in Communication
  or
  COM 8004 Communication Directed Study
The Graduate Programs of the Department of Computing Sciences prepare students for careers and further study and research in Computer Science or Software Engineering. Both programs build on undergraduate preparation, continue study in fundamental concepts and extend into advanced topics suited to the specialization. The Graduate Certificate in Health Informatics is a specialized distance learning program to prepare students in the management, retrieval, and exchange of electronic health data; the use of electronic medical data systems; knowledge of health IT standards; privacy, safety, interoperability, and security issues in the healthcare industry.

**PROGRAM REQUIREMENTS—COMPUTER SCIENCE**
Students must successfully complete the five required courses and five electives. One elective course is the capstone project dealing with grand Challenges of Computing, which is completed in cooperation with a faculty member. This project may be expanded to a thesis by registering for thesis direction as one of the electives. The intention to do a thesis must be approved by the faculty sponsor when the student begins work on the capstone project. Depending on the undergraduate background, one or two of the foundations courses may be substituted for additional electives.

**PROGRAM REQUIREMENTS—SOFTWARE ENGINEERING**
Student must successfully complete seven required courses and three elective courses. One required course is the capstone project dealing with Grand Challenges of Computing, which is completed in cooperation with a faculty member. This project may be expanded to a thesis by registering for the Thesis Direction course as one of the electives. The intention to do a thesis must be approved by the faculty sponsor when the student begins work on the capstone project. Depending on the undergraduate background, one or two of the foundations courses may be substituted for additional electives.

The electives for both programs are to be selected from the courses listed below. With permission, a required course from one program may be taken as an elective in the other program. students may petition for other courses in the allied fields of Computer engineering and mathematics to be considered as well. However, at least eight of the courses (24 of 30 credits) in every student’s program must be from Computer science (“CSC” prefix) proper. In addition, CSC 9010 (special topics in Computer science) may be retaken for credit, provided a different topic is being taught. Recent special topics offerings include Computer Vision, Cyber Security, Cloud Computing, Game Design & Development, Health IT and eHealth Systems, Information Security, Internet of Things, Machine Learning, Project Management, Software Testing, Software Studio, and Web Technologies. An optional practicum track requires students to obtain related work experience. This track has the same requirements as the regular m.s. degree but adds CSC 8990. All required and elective courses are 3 credits each except CSC 8990, which is 1 credit. All continuation courses are 0 credits.
PROGRAM REQUIREMENTS- CERTIFICATE IN HEALTH INFORMATICS (CHI)
Students must complete five three credit courses, online. All courses can count towards a full masters program in Software Engineering.

REQUIRED COURSES (MSCS)
CSC 8000 Foundations of Algorithms and Data Structures
CSC 8301 Design and Analysis of Algorithms
CSC 8310 Linguistics of Programming Languages
CSC 8400 Computer Systems
CSC 8510 Theory of Computability

REQUIRED COURSES (MSSE)
CSC 8000 Foundations of Algorithms & Data Structures
CSC 8400 Computer Systems
CSC 8540 Software Engineering
CSC 8541 Requirements Engineering
CSC 8542 Software Design and Evolution
CSC 8490 Database Systems

ELECTIVE COURSES (MSCS/MSSE)
CSC 8450 Digital Forensics
CSC 8470 Computer Graphics
CSC 8490 Database Systems
CSC 8491 Data Mining and Database Programming
CSC 8495 Information Retrieval
CSC 8505 Compiler Construction
CSC 8515 Machine Learning
CSC 8520 Artificial Intelligence
CSC 8530 Distributed Systems
CSC 8543 Software Testing and Quality Assurance
CSC 8544 Software Project Management
CSC 8545 Software Studio
CSC 8560 Computer Networks & Cyber Security
CSC 8565 Cybersecurity
CSC 8566 Internet of Things
CSC 8570 User/System Interface Design
CSC 8580 Network Management and Performance
CSC 8590 Advanced Software Engineering
CSC 8600 Object-Oriented Design and Programming
CSC 8610 Multimedia Technology
CSC 8700 System Programming in UNIX and C
CSC 8710 Advanced System Programming
CSC 8750 Expert Systems
CSC 8990 Computing Practicum
CSC 8991 Computing Practicum Continuation
CSC 9000 Guided Study
CSC 9010 Special Topics in Computer Science
CSC 9020 Independent Study
CSC 9021 Independent Study Continuation
CSC 9025 Grand Challenges of Computing
CSC 9026 Grand Challenges Continuation
CSC 9030 Thesis
CSC 9080 Thesis Continuation

**REQUIRED COURSES (CHI)**
CSC8200 Health Informatics and eHealth Systems
CSC8210 Healthcare Safety, Security, Law and Ethics
CSC8220 Software Engineering and Health Informatics
CSC8230 Database Systems and Health Informatics
CSC9010 Special Topics in Health Informatics

**BACKGROUND COURSES**
CSC 7000 Algorithms and Programming
CSC 7100 Computer Systems
CSC 8100 Technology for Human Organizations
DEPARTMENTAL PROGRAMS
The Department of Education and Counseling offers two graduate degrees: the Master of Arts in Education and the Master of Science in Counseling. The Master of Arts in Education offers a concentration in Teacher Leadership, Graduate Education, and Higher Education. The Master of Science degree allows concentration in either school counseling or clinical mental health. The program for school counseling is approved by the Pennsylvania Department of Education and is offered at the graduate level, as is a program for initial teaching certification through the Master’s Plus Teacher Certification program. Each program has a core of required courses, as well as specific admission requirements.

In addition, the Department offers pre- and post-graduate studies with a 15 credit Certificate in Teacher Leadership program designed for the education professional who wants to expand his/her role as a lead teacher, department chair, etc., a 15 credit Certificate in Higher Education Leadership, and post-graduate courses in Counseling, which permit the working counselor to move toward professional licensure as a counselor.

MASTER OF ARTS IN EDUCATION
Each concentration leads to the degree of Master of Arts in Education. The concentration in Graduate Education is designed to aid the teacher in the following areas: 1) strengthening and expanding professional knowledge; 2) applying research to improve teaching practice; 3) pursuing special interests in education (e.g., curriculum design) and 4) learning to apply knowledge and skills to the larger school community. The concentration in Teacher Leadership is designed for individuals who wish to develop their leadership ability for use in the classroom or in such expanded roles as lead teacher, team leader, curriculum developer, department chairperson, new teacher mentor or special project leader. The Teacher Leadership program is also intended for teachers who want to apply their knowledge and skill to the larger school community, yet may not want to leave their classrooms to do so. Professionals who enter this program are leaders and future leaders of our schools. The concentration in Higher Education is designed to prepare students for careers in college and university settings, the public policy sector, as well as organizations engaged in research, advocacy, and action pertinent to higher education. The Master’s Plus Teacher Certification is for aspiring teachers and leads to a master’s degree and students satisfy Pennsylvania Department of Education “Program approval” requirements for state certification in secondary teaching. Certificates in Teacher Leadership or Higher Education Leadership may also be obtained.

1) Master of Arts in Education with a Graduate Education, Higher Education, or Teacher Leadership concentration (30 Credits)
Degree Requirements: A minimum of 30 graduate credits is required for each concentration of the Master of Arts in Education degree. A student may choose to take all 30 credits in Education or to combine credits in Education with graduate credits in another subject or teaching field. Upon receiving approval of the Department of Education and Counseling, a student may undertake the writing of a thesis for six credits in lieu of six semester-hour course credits. All students are required to complete three one-credit workshops from a selection of listings. Prior to being awarded the degree, students must submit and present a digital portfolio. This may be done following the completion of 24 credits.
2) Master of Arts Plus Teacher Certification (34 Credits)

Degree Requirements: Those seeking admission in this track of the program should have an undergraduate major in an academic subject area and/or the necessary prerequisite coursework. Subjects available for certification are: English, Communication, Mathematics, Biology, Physics, Chemistry, General Science, Social Studies, World Languages and Latin. The program consists of 34 credits, observations in schools and a full time student teaching experience. The program is typically completed in 12 consecutive months, in one summer session and two semesters and exists for prospective secondary teachers, grades 7-12 only. It is also possible to complete the program on a part time basis over two years.

Graduate Education Concentration

THIRTY (30) CREDITS REQUIRED FOR DEGREE
I. CORE COURSES (REQUIRED):
   EDU 8561 Advanced Trends and Issues in Special Education *
   EDU 8603 Educational Research *
   EDU 8641 Assessment and Analysis *
   EDU 8679 Standards Aligned Systems and Curriculum *
   EDU 8673 Philosophy of Education *

II. (15) CREDITS FROM THE FOLLOWING:
   EDU 8400 Critical Perspectives Special Education
   EDU 8561 Advanced Trends and Issues in Special Education
   EDU 8606 Assessment and Evaluation in the Classroom
   EDU 8610 Current Issues in American Education
   EDU 8620 Foundations of Reading Instruction
   EDU 8622 Diagnosis and Remediation of Reading Difficulties
   EDU 8626 Learning Disabilities and the Teaching of Reading
   EDU 8627 Teaching the Language Arts
   EDU 8631 Methods of Teaching Writing
   EDU 8654 Policy Analysis
   EDU 8662 Trends in the Social Studies
   EDU 8663 Teaching Processes and Problem Solving in Mathematics & Sciences
   EDU 8664 Politics of Education
   EDU 8669 Comparative Education
   EDU 8670 History of Western Education
   EDU 8671 History of American Education
   EDU 8672 Instructional Leadership
   EDU 8676 Technology in Teaching
   EDU 8678 Multiculturalism, Gender, and Inclusion in Schools
   EDU 8869 Special Topics: Education

Three workshops required (one credit each)
Up to 12 credits may be taken in teaching content area

* Core courses with signature assignments to be included in the digital portfolio.
Graduate Studies

Teacher Leadership Concentration

THIRTY (30) CREDITS REQUIRED FOR DEGREE

I. CORE COURSES (REQUIRED):
   EDU 8561 Advanced Trends and Issues in Special Education *
   EDU 8603 Educational Research * or EDU 8641 Assessment and Analysis *
   EDU 8654 Policy Analysis *
   EDU 8672 Instructional Leadership *
   EDU 8679 Standards Aligned Systems and Curriculum *

II. (15) CREDITS FROM THE FOLLOWING: EDU 8664 Politics of Education
   EDU 8669 Comparative Education
   EDU 8610 Current Issues in American Education
   EDU 8673 Philosophy of Education
   EDU 8678 Multiculturalism, Gender, and Inclusion in Schools
   EDU 8869 Special Topics: Education

   One approved elective or 3 one credit workshops

Higher Education Concentration

THIRTY (30) CREDITS REQUIRED FOR DEGREE:

I. CORE COURSES (REQUIRED - 18 credits):
   EDU 8670 History of US Higher Education
   EDU 8603 Educational Research
   EDU 8673 Philosophy of Education
   EDU 8645 Contemporary Issues in American Higher Education
   EDU XXX 3 1-credit workshops focused on Higher Education
   EDU 8644 Leadership & Administration of Higher Education

II. ELECTIVE COURSES (12 Credits)
   EDU 8696 Leadership Practicum/Internship
   EDU 8678 Multiculturalism, Gender, and Inclusion in Schools
   EDU 8654 Policy Analysis
   EDU 8561 Advanced Trends and Issues in Special Education
   EDU 8664 Politics of Education
   EDU 8669 Comparative Education EDU 8656 School Law
   EDU 8869 Topics in Education, Culture and Society
   EDU 8500 Theory and Purpose of the University
   EDU XXX Additional 1-credit workshops

Students may take up to 6 graduate credits of electives in another College department.
THIRTY FOUR (34) CREDITS REQUIRED FOR DEGREE:

EDU 8400 Critical Perspectives in Special Education (3 credits)
EDU 8530 or 8540 or 8550 Methods of Teaching Content (3)
EDU 8603 Educational Research (3)
EDU 8614 Curriculum and Assessment (3)
EDU 8618 Adolescent Psychology (3)
EDU 8671 History of American Education (3)
EDU 8673 Philosophy of Education (3)
EDU 8675 Development of the English Language Learner (3)
EDU 8678 Multiculturalism, Gender, and Inclusion in Schools (3)
EDU 8628 Graduate Student Teaching (6)
EDU 7321 Graduate Student Teaching Seminar (1)

Master of Science in Counseling

The Program offers a Masters of Science in Counseling with specialization in Clinical Mental Health Counseling or School Counseling. These areas of specialization share a common core of courses required for all students. Theoretical mastery and applied skill development are emphasized. The school counselor emphasis (54 credits) does not permit the student to meet the requirements of a professional counselor (e.g., an LPC); they must take an additional 6 credits, to be eligible to apply for licensure. The School Counseling program is approved by the Commonwealth of Pennsylvania Department of Education and offers K-12 certification in school counseling. While both the School Counseling (54 credits) and the Clinical Mental Health Counseling program requirements (60 credits) are frequently updated in response to certification and licensure requirements, counseling students are expected to meet the course and clinical requirements of the Counseling program at the semester of first matriculation.

Program Requirements
Students must choose to specialize in one of two areas; School or Clinical Mental Health. Each area of specialization (i.e., Clinical Mental Health and School Counseling) requires specific courses, recommended electives, a one-semester practicum, a two-semester internship, and a comprehensive examination to complete the degree program. Online registration requires a student pin number which is available through your advisor.

Core Program (Courses Required for All Tracks)
CHR 8605 Laboratory in Counseling Skills
CHR 8655 Laboratory in Group Dynamics
CHR 8687 Counseling Theory and Practice
CHR 8604 Research and Evaluation
CHR 8685 Lifestyle and Career Development
CHR 8855 Assessment and Appraisal
CHR 8855 Human Growth and Development
CHR 8860 Lab in Counseling Diverse Populations
CHR 8883 Ethics and Legal Issues in Counseling

Required Courses (specific to chosen track in addition to core program courses)

1. CLINICAL MENTAL HEALTH COUNSELING (CMHC) - (60 credits)

CHR 8840 Crisis Interventions
PSY 8225 Psychopathology
CHR 8682 Practicum in Clinical Mental Health
CHR 8686 Group Counseling Theory & Practice
CHR 8688 Orientation to CMHC
CHR 8844 Family Systems Theory
CHR 8850 Internship I in Clinical Mental Health Counseling
CHR 8851 Internship II in Clinical Mental Health Counseling
CHR 8873 Substance Abuse Counseling
CHR 8874 Prevention Theory & Practice
CHR Electives (6 credits)

2. SCHOOL COUNSELING – (54 credits)

CHR 8600 Special Ed. for Counselors & Teachers
CHR 8677 Practicum in School Counseling
CHR 8683 Consultation Processes
CHR 8688 Orientation to School Counseling
CHR 8692 Internship I in School Counseling
CHR 8694 Internship II in School Counseling
CHR 8854 Therapeutic Strategies for Working with Children
CHR 8857 Adolescent Counseling Strategies
CHR 8675 Development of ELL Students

Graduate Certificates in Education

Fifteen (15) Credits Required for Certificate

Admission Requirements
The program is open to post-baccalaureate students who submit a satisfactory undergraduate transcript from an accredited institution of higher education with a minimum GPA of 3.0. The applicant must also be of good character and legal standing.

Certificate Requirements
The number of credits required is 15; nine (9) must be fulfilled by the three required courses. No transfer credits from other institutions will be accepted for the certificate program.
Villanova University

**Teacher Leadership Certificate**

**Certificate Requirements**
The number of credits required is 15; nine (9) must be fulfilled by the three required courses. No transfer credits from other institutions will be accepted for the certificate program.

**Required Courses (3):**
- EDU 8672 Instructional Leadership
- EDU 8654 Education Policy Analysis
- EDU 8664 Politics of Education

**Electives (2):**
- EDU 8622 Diagnosis and Remediation of Reading Difficulties
- EDU 8626 Learning Disabilities and the Teaching of Reading
- EDU 8662 Trends in the Social Studies
- EDU 8663 Teaching Problem Solving Math-Science
- EDU 8676 Technology in Teaching
- EDU 8678 Multiculturalism, Gender and Inclusion in Schools
- EDU 8631 Methods of Teaching Writing
- EDU 8627 Teaching Language Arts

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**Required Courses (3):**
- EDU 8616 Methods of Teaching (optional for state-certified teachers)
- EDU 8679 Standards Aligned Systems and Curriculum
- EDU 8561 Advanced Trends in Special Education

**Electives (2):**
- EDU 8610 Current Issues in Education
- EDU 8662 Trends in the Social Studies
- EDU 8669 Comparative Education
- EDU 8670 History of Education
- EDU 8673 Philosophy of Education
- EDU 8678 Multiculturalism, Gender, and Inclusion in Schools

**Additional Elective Option:** With the approval of the Chairperson of the department of Education and Counseling, students enrolled in the certificate who are degree or certificate candidates in another graduate arts and sciences program at Villanova, may use one course in that program to satisfy one elective in the education Certificate.
ENGLISH

MASTERS OF ARTS DEGREE IN ENGLISH
The Department of English offers a Master’s in English Literature and a Post-MA Certificate. The curriculum combines the deepest traditions of literature and the most current approaches to and applications of literary study. This range of approaches provides students with expertise in much of the literature written in English, highly refined interpretive skills, and familiarity with the major intellectual currents shaping the discipline of literary study today. All courses are conducted as small seminars, with a maximum enrollment of 15 students. In these seminars, students are asked to consider the primary texts in a variety of contexts, including the historical moment in which they were created, the body of literary criticism that has been generated concerning them, and contemporary theoretical paradigms that might shed light on their deep structures. Upon completion of coursework students have the option of either writing a thesis or taking a field examination. In either case, this final stage of the Master’s degree affords students an opportunity to pursue an area of interest deeply, while receiving extensive guidance from a faculty advisor of their choosing.

To earn the Master’s degree, students complete 30 credits, including a thesis or an oral/written field examination. The only two formal requirements are a course in American literature before 1900 and another in British/Irish literature before 1800. Students must maintain an average grade of “B” or better each semester to remain within the program. Normally, students complete the program within two years, taking two to three courses each semester, but they may take up to six years. If a student does not plan to enroll in any classes for more than one year, they must apply for a leave of absence. Please see the Leave of Absence policy for more information.

Thesis Option or Oral Field Examination Option
All students must submit a thesis (3 credits) or successfully pass a combined oral/written field examination (3 credits) in partial fulfillment of the requirements for the MA degree. The coursework and the thesis or field examination are complementary, the first providing the critical base and a broad range of study in a variety of areas, the second providing focus within a particular area. The thesis offers the opportunity for sustained critical examination of an author, theme, or small selection of texts. The field examination, covering a list of works compiled in consultation with a student’s advisor, allows exploration of a self-defined field. A “field” is often defined by both a literary period and a theme of the student’s choosing (e.g., American environmental literature since 1950, or British war literature of the 19th century), but it may also address either a traditional historical period or a genre. The examination involves a written “comprehensive statement” and an oral examination by a committee based on the reading list and the comprehensive statement.
DEPARTMENTAL PROGRAM

British/Irish Literature
ENG 8102 Old English Language and Literature
ENG 8104 Middle English Language and Literature
ENG 8106 Topics in Medieval Literature
ENG 8150 Chaucer’s Canterbury Tales
ENG 8151 Chaucer’s Troilus and Criseyde and Minor Poems
ENG 8250 Shakespeare’s Early Plays
ENG 8251 Shakespeare’s Later Plays
ENG 8260 Topics in Renaissance Literature
ENG 8310 Seventeenth Century Poetry and Prose
ENG 8350 Milton
ENG 8420 Eighteenth Century Fiction
ENG 8430 English Drama, 1660-1780
ENG 8450 The Age of Neo-Classicism
ENG 8460 Topics in Eighteenth Century British Literature
ENG 8501 The Age of Romanticism
ENG 8505 Victorian Prose
ENG 8506 Victorian Poetry
ENG 8520 Nineteenth-Century Fiction
ENG 8560 Topics in Nineteenth Century British Literature
ENG 8580 Irish Literature before 1900
ENG 8610 Modern British Poetry
ENG 8620 Modern British Fiction
ENG 8630 Modern British Drama
ENG 8640 Topics in Modern British Literature
ENG 8680 Irish Literature after 1900

American Literature
ENG 7055 African-American Literature
ENG 9510 American Poetry to 1900
ENG 9520 American Fiction to 1900
ENG 9530 Topics: Nineteenth Century American Literature
ENG 9610 American Poetry: 1900-1950
ENG 9620 American Fiction: 1900-1950
ENG 9640 Topics: Modern American Literature
ENG 9710 American Poetry: 1950 to Present
ENG 9720 American Fiction: 1950 to Present
ENG 9730 Open Seminar

Other
ENG 7200 History of the English Language
ENG 8000 Critical Theory
ENG 8010 Seminar: Research and Bibliography
ENG 8020 Composition and Literacy Studies
Graduate Studies

ENG 8081 Seminar: Methods of Teaching Composition
ENG 8090 Thesis Direction I
ENG 8092 Field Exam
ENG 9031 Independent Study
ENG 9035 Professional Research Option
ENG 9080 Thesis Continuation
ENG 9800 Internship in the Teaching of English
ENVIRONMENTAL SCIENCE

The Master of Science in Environmental Science (MSES) is a 30-credit degree program. Depending on track, students enroll in 7-10 credits of required foundation courses, then complete the remaining credits as part of the research and thesis track, or choose the non-thesis capstone project track or the non-thesis portfolio track. **In cooperation with the Program Director and a faculty mentor(s), students develop and customize their academic program.**

All students take **7-10 credits** of required foundation courses, depending on their chosen track:

**GEV 7000: Research Methods in the Environmental Sciences (2 credits)** Analytical and research techniques for environmental scientists - for thesis or capstone track students only.

**GEV 7010: Environmental Colloquium (1 credit)** Attendance at departmental seminars and student presentations - for thesis or capstone track students only.

**GEV 7020: Advanced Environmental Issues Seminar (3 credits)** Discussion and debate of current environmental issues - for all MSES students.

**GEV 7041: GIS for Environmental Systems (4 credits)** Application of geotechnical skills to address environmental issues - for all MSES students.

**Note:** GEV 7040 (Intro to GIS) is required for students without prior GIS experience as a pre-requisite for GEV 7041. If a student must take GEV 7040, that counts towards their free electives.

**RESEARCH and THESIS TRACK**

In addition to the 10 credits of required foundation courses, students on the Research and Thesis Track must take GEV 7030 and GEV 9050. Additionally, they take at least 5 credits of thesis work, but no more than 10 additional credits, depending on the research plan they work out with their advisor.

Thesis courses include: GEV 7030, 9000, 9001, 9010, 9020, 9030, or 9050.

**GEV 7030: Proposal Development (1 credit)**
**GEV 9050: Thesis Writing (1 credit)**
**GEV 9000: Directed Research (2 credits)** For students who need an introductory research course prior to their Thesis Advisory Committee.
**GEV 9001: Thesis Continuation (0 credits)**
**GEV 9010: Thesis Research I (1 credit)**
**GEV 9020: Thesis Research II (2 credits)**
**GEV 9030: Thesis Research III (3 credits)**
**GEV 9040: Thesis Research III (5 credits)**

**NON-THESIS CAPSTONE TRACK**
Graduate Studies

In addition to the 10 credits of foundation courses, students selecting the Non-Thesis Capstone Track must take GEV 9000 and GEV 9005, and will work with the MSES Director to develop a program of study that complements their career goals. Students will complete a capstone project in their final semester, which they will then publically present at the Department’s Environmental Colloquium.

The following courses are required for the non-thesis capstone track:

**GEV 9000: Directed Research (2 credits)**
**GEV 9005: Capstone Project (1 credit)**

**NON-THESIS PORTFOLIO TRACK**
In addition to the 7 credits of foundation courses, students selecting the Non-Thesis Portfolio Track must take GEV 9002 and will work with the MSES Director to develop a program of study that complements their career goals. Students will choose the final products of three or four elective courses and compile a portfolio that will be evaluated by a panel of faculty.

**ELECTIVES**
Students enrolled in the Research and Thesis Track take between 8 and 13 credits of elective courses, dependent upon their research plans.

Students enrolled in the Non-Thesis Capstone Track take 17 credits of elective courses, at least 8 credits of which must come from laboratory courses. Up to nine credits may be taken from departments other than GEV.

Students enrolled in the Non-Thesis Portfolio Track take 23 credits of elective courses, at least 8 credits of which must come from laboratory courses. Up to nine credits may be taken from departments other than GEV.

**GEV Elective Lecture Courses (3 credits unless otherwise noted)**
GEV 7100 Remote Sensing for Environmental Analysis
GEV 7101 Land Use and Environmental Assessment
GEV 7102 Sustainable Environmental Systems
GEV 7103 Environmental Policy and Law
GEV 7104 Coastal Environments
GEV 7105 Sustainable Urban Systems
GEV 7106 Ecosystems Services
GEV 7107 Advanced Environmental Geology
GEV 7108 Climate Variability
GEV 7109 Paleoclimates
GEV 7110 Sustainable Development
GEV 7111 Agricultural Sciences
GEV 7112 Environmental Health
GEV 7113 Soil Science
GEV 7114 Air Pollution  
GEV 7115 Energy Systems  
GEV 7116 Coral Reefs  
GEV 7117 Water Resources  
GEV 7118 Energy Policy  
GEV 7119 Oceanography  
GEV 7120 Geology  
GEV 7121 Global Change Science  
GEV 7122 Ecosystem Ecology  
GEV 7123 Green Science  
GEV 7124 Biomimicry  
GEV 7125 Tropical Ecology  
GEV 7126 Process Geomorphology  
GEV 7127 Environmental Systems  
GEV 7128 Environmental Systems Management  
GEV 7129 Environmental Toxicology  
GEV 7200 Advanced Quantitative Analysis  
GEV 7201 Spatial Analysis of Environmental Systems  
GEV 7202 Geo Statistics  
GEV 7203 Environmental Modeling with GIS and Remote Sensing  
GEV 7204 Geospatial Project Management  
GEV 8300 Environmental Laboratory and Field Topics (1 credit; topics include: Geospatial Field Methods, Environment Public Health, and Wetland Field Research)  

**GEV Elective Lab Science Courses (4 credits)**  
GEV 7040 Intro to GIS*  
GEV 8310 Advanced Topics in Environmental Lab Science I  
GEV 8320 Advanced Topics in Environmental Lab Science II  
GEV 8321 Microbial Processes  
GEV 8322 Ocean and Coastal Environments  
GEV 8323 Watershed Biogeochemistry  
GEV 8324 Environmental Systems  
GEV 8325 Environmental Ecology  
GEV 8326 Environmental Geology  
GEV 8327 Geomorphological Environments  
GEV 8328 Climatology  
GEV 8329 Global Change Research  
GEV 8330 Field Methods for Environmental Science  
GEV 8331 Field Research  
GEV 8332 Sustainable Environmental Systems  
GEV 8333 Water and Waste Water Management  
GEV 8334 Biogeochemistry  
GEV 8335 Hydrology and Water Resources  
GEV 8336 Aquatic Environmental Ecology  
GEV 8337 Terrestrial Environmental Ecology  
GEV 8338 Environmental Chemistry
Graduate Studies

*Required for students without prior GIS experience as a pre-requisite for GEV 7041

ELECTIVES IN OTHER DEPARTMENTS

Chemistry Courses (3 credits)
CHM 7515 Environmental Chemistry
CHM 7595 Advanced Analytical Chemistry
CHM 7515 Advanced Biochemistry
CHM 8643 Toxicology

Biology Courses
BIO 7105 Vertebrate Ecology (4 credits)
BIO 7151 Biogeochemistry Lecture (2 credits)
BIO 7152 Biogeochemistry Lab (2 credits)
BIO 7805 Biostatistics and Experimental Design (4 credits)
BIO 7555 Molecular Ecology and Evolution (4 credits)
BIO 7705 Plant Ecology (4 credits)
BIO 7755 Plant Ecophysiology (4 credits)
BIO 7955 Biodiversity and Systematics (4 credits)
BIO 7970 Special Topics in Ecology, Evolution, and Organismal Biology (2 credits)
BIO 7980 Advanced Topics in Ecology, Evolution, and Organismal Biology (3 credits)
BIO 7980 Advanced Topics (Molecular Ecology) (3 credits)
BIO 7980 Advanced Topics (Behavioral Ecology) (3 credits)
BIO 7980/7982 Advanced Topics (Global Change Ecology, lecture / lab) (4 credits)
BIO 8940/8941 Advanced Topics (Tropical Field Ecology, lecture / lab) (4 credits)

Public Administration Courses (3 credits unless otherwise noted)
MPA 8100 Decision-Making
MPA 8300 Leadership Ethics
MPA 8400 Strategic Planning
MPA 8500 Effective City Management
MPA 8550 Urban Politics
MPA 8600 Effective Nonprofit Management
MPA 8800 Managing Public Networks
MPA 8900 Public Policy
MPA 8299 Special Topics in Public Administration (1 credit; suggested topics: land use and zoning, economic development strategies, program evaluation, performance measurement)
PROGRAM DESCRIPTION
The College of Liberal Arts offers a Graduate Certificate in Gender and Women’s Studies with course offerings from a variety of disciplines. The curriculum stresses the exploration of theoretical and practical concepts of power, as applied to gender and sexuality and to all forms of oppression through a genuinely interdisciplinary approach. Honoring the social as well as the intellectual traditions of the disciplines, our courses draw on feminist models of collaborative learning and pedagogy and value the knowledge and authority that students as well as teachers bring to the classroom. Across the GWS curriculum, students experience the dynamic process of integrating the quest for knowledge with personal experience, through courses that give them a voice, a sense of community, and an invitation to work for social change.

Students who are pursuing a degree in another department will be able to apply some of their courses for both the degree and the certificate. The certificate allows students to enhance their studies with a deeper knowledge of GWS, which has transformed scholarship and challenged fundamental assumptions in the humanities, social and natural sciences, and the professions. The certificate can also be earned as a stand-alone program.

PROGRAM REQUIREMENTS
The certificate requires 15 credit hours (5 three-credit courses) including Critical Perspectives on Gender (GWS 8000) and four graduate courses with the GWS attribute. The GWS curriculum is always evolving and shown in its entirety in our course catalog. Our faculty from many disciplines frequently teach new graduate courses. Recent courses that qualify for the GWS attribute are:

Graduate Courses
CHR 7155 Human Sexuality
COM 8005 Gender and Communication
EDU 8678 Multiculturalism, Gender in Schools
ENG 8260 Revenge Tragedy
ENG 9530 Sex before Sexology
ENG 964: Emotion and American Fiction
ENG 9640 Queer Theory and American Literature
ENG 9730 Modernist Sexualities
ENG 9720 Feminist Fiction and Feminist Theory
GWS 8000 Critical Perspectives on Gender
HIS 8002 Gender and the Civil War
HIS 8207 Women and Gender in Europe 400-1650
HIS 8290 Women and Gender in Modern Europe
HIS 8436 Women and Gender in the Middle East
HIS 8800 Gender History
LAW 6255 Sexuality and the Law
Graduate Studies

LAW 7060 Feminist Legal Theory
LAW 7148 Human Trafficking
LST 7301 Women in America
LST 7303 Social Justice
PHI 8540 Feminist Theories
PHI 8710 Embodied Epistemologies
PHI 8720 Politics of the Affects
PSC 8000 Global Feminism
PSC 8775 Global Inequality
PSY 8900 Intimate Relationships
PSY 8900 Gender and Sexuality
SPA 7449 Women’s Voices in Latin America
THE 8200 Gender, Politics, and Performance
DEPARTMENTAL REQUIREMENTS

Eighteen undergraduate credits in history, at least half of them upper division, and the Graduate Record Examination General Test are normally required for admission to the program. Three letters of recommendation should be transmitted to the Office of Graduate Studies. A writing sample in history is required and can be uploaded in the online application.

The program for the Master of Arts in History emphasizes broad understanding, interpretation, and analysis. While the department retains strengths in the US, Europe, Latin America, and Asia, the curriculum features a strong emphasis on Public History. The program encourages students to pursue transnational developments that spanned larger regions or that bound together distant cultures. The objective of the program is to lead the student to probe beneath the surface of events so that those who teach history may do so with a deeper understanding of their subject and the various approaches to it, and so that all, regardless of vocation or objectives, may more fully appreciate the value of studying society by means of historical investigation. The program provides opportunities for research and specialized training for students contemplating further work at the doctoral level. Faculty collaborate with local museums and cultural institutions to provide students with experience in public history and to train interested students to find work in non profits. Given the importance of interdisciplinary work, students may take, with permission, up to two non-department graduate courses in subjects related to the student’s field of study.

Thirty credits are required for the degree. In close consultation with an academic advisor, students choose a field of concentration from the following:

1. Africana 10. Race and Ethnicity
2. Americas 11. Religion
3. Asia 12. Revolution
4. Atlantic World 13. State and Society
5. Europe 14. Women and Gender
6. United States 15. Chronological Concentration
7. Empire 16. Public History Concentration
8. Industrial Societies 17. Self-Designed Concentration
9. Intellectual History

Students must take at least 12 credits in their concentration. In addition, all students are required to take HIS 8850 Theory and Methods, preferably in their first semester. The remaining five courses are free electives that students may use to add to their concentration or to pursue wider interests.

Students are required to successfully complete a written comprehensive examination, often during their last semester of course work. This is composed of a two-hour examination on their concentration and a two-hour examination based upon a list of
questions that all students are given at the beginning of their course work. Students are required to maintain a portfolio that includes best examples of course work. The graduate committee reviews portfolios in preparation for the comprehensive exam.

**Combined MA in History and Certificate in Non-Profit Management**
This combined program provides a unique opportunity to graduate students in history who are interested in pursuing careers in public history, administration of historical sites and museums, and related positions. The program educates the student in the pragmatic skills necessary for managing and promoting the political, economic, and administrative elements of public historical institutions while providing them with in-depth knowledge and experience in historical research, historiography, and methodology.

The combined Masters/Certificate Program requires students to take 36 credits (instead of the 30 credits required for the History MA degree). Four of the required 12 classes are taken in the Master of Public Administration (MPA) Program.

**Program Objectives:**
1) Educate students to become knowledgeable administrators and leaders in the public history community through training in historical research, professional practice, and educational outreach.
2) Provide students with the practical knowledge for the establishment and advancement of non-profit organizations, particularly those related to history.

**Admission and Completion Requirements**
Applicants must be evaluated and accepted by both the History Department for its Masters program and the Masters in Public Administration program for its Non-Profit Certificate program. The same admission standards that apply for the MPA Program will apply for students in the History MA/Certificate program.

**Required Courses:**
24 History credit hours or 8 courses from the history curriculum, one of which must be History 8702, Introduction to Public History.
12 credit hours or 4 courses from the Masters in Public Administration’s Certificate in Nonprofit Management.

*History 8702 Introduction to Public History will be accepted for credit in both programs.*

Total Credits: 36 (History 24 + MPA 12)

**History: 24 credits:**
- Theory and Methods in History 3 cr
- Concentration 12 cr
- History 8702, Introduction to Public History 3 cr
- Electives 6 cr
The remaining 6 credits required for the MA in History are fulfilled by two MPA courses.
Masters in Public Administration Certificate in Nonprofit Management: 12 credits
MPA 8003 Financial Management of Nonprofits,
MPA 8600 Effective Nonprofit Management
MPA 8700 Fundraising for Nonprofit Organizations
One elective. For a list of electives, see Appendix 2.
The remaining 3 credits required for the MPA Certificate are fulfilled by History 8702, Introduction to Public History

Post-Bachelor’s Certificate Program
The certificates are designed for all who wish to continue taking courses after they have earned a Bachelor’s degree. The program is open to all who wish to continue their formal study of History but do not plan to pursue another degree. The certificates are especially well suited to the needs of secondary and middle school history and social studies teachers. Those who possess a Bachelor of Arts degree in history from Villanova University or any other accredited university are eligible. Applicants who hold degrees in other fields may also be admitted, subject to the approval of the history department’s Graduate Steering Committee.

The Post-Bachelor’s Certificate program can be tailored to the student’s specific needs. Students may choose from the history department’s regular course offerings on the basis of their own interests and needs. Students must complete 15 credits to be awarded a certificate. Students may earn multiple certificates.
The five available Certificates in history are:
1. Graduate Study in History
2. Graduate Study in American History
3. Graduate Study in European History
4. Graduate Certificate in Teaching Advanced History and Government
5. Graduate Study in World History
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<tr>
<th>Course Code</th>
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<tr>
<td>HIS 8002</td>
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<td>HIS 8003</td>
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<td>HIS 8021</td>
<td>Early American Republic</td>
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<td>U.S. Civil War</td>
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<td>HIS 8033</td>
<td>The Gilded Age, 1865-1900</td>
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<td>HIS 8062</td>
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<td>HIS 8066</td>
<td>American Cultural History</td>
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<td>HIS 8071</td>
<td>Top:Early Amer Soc Hist</td>
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<td>HIS 8072</td>
<td>Reconstruction</td>
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<td>HIS 8076</td>
<td>Topics in Amer Econ Hist</td>
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<td>HIS 8078</td>
<td>Topics in African-American History During Slavery</td>
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<td>HIS 8081</td>
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<td>HIS 8202</td>
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<td>HIS 8204</td>
<td>Sem Topics in Ancient History</td>
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<td>HIS 8205</td>
<td>Ancient Mediterranean</td>
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<td>HIS 8206</td>
<td>Dark Ages</td>
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<td>HIS 8207</td>
<td>Wm &amp; Gender in Europe 400-1650</td>
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<td>Medieval Europe</td>
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<td>Ref &amp; Cath Counter Reformation</td>
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<td>HIS 8225</td>
<td>The Enlightenment</td>
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<td>HIS 8231</td>
<td>French Rev and Napoleonic Era</td>
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<td>HIS 8235</td>
<td>British Economy and Society, 1689-1815</td>
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<td>Eur Natlsm 1815-1870</td>
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<td>HIS 8245</td>
<td>Great Britain since 1815</td>
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<td>HIS 8248</td>
<td>19th Century Ireland</td>
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<td>HIS 8252</td>
<td>Modern France since 1815</td>
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<td>Imperial Russia to 1917</td>
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<td>Europe on the Eve of WWI</td>
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<td>Germany since 1945</td>
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<td>Russia and the USSR in the 20th Century</td>
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<td>HIS 8402</td>
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<td>HIS 8410</td>
<td>Atlantic World 1500-1800</td>
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<td>Colonial Latin America</td>
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<td>HIS 8414</td>
<td>Topics Latin Amer Hist.</td>
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<td>HIS 8416</td>
<td>Modern Latin America</td>
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<td>HIS 8421</td>
<td>China &amp; Japan since WWII</td>
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Villanova University

HIS 8423 - Women and Gender in Middle East
HIS 8425 - Modern Japan
HIS 8426 - Modern China
HIS 8433 - Imperialism and Nationalism in the Middle East
HIS 8436 - Women & Gender in Middle East
HIS 8441 - Africa and the Emergence from Colonialism
HIS 8452 - History of Modern South Asia
HIS 8454 - Empire & Decolonization
HIS 8602 - Sem Top in Comparative History
HIS 8603 - Topics in the His of Rev
HIS 8613 - Topics in Gender & Women’s His
HIS 8642 - Top in His of Science & Tech
HIS 8648 - Environmental History
HIS 8662 - Impact of War on Society
HIS 8682 - The Cold War as History
HIS 8702 - Intro to Public History
HIS 8704 - Material Culture
HIS 8800 - Topics in Historiography
HIS 8802 - Seminar in Amer Historiography
HIS 8804 - Seminar in Eur Historiography
HIS 8806 - Historiography of Gender
HIS 8850 - Theory and Methods
HIS 8900 - Introduction to Digital History
HIS 9006 - Grad Internship in Public History
HIS 9012 - Directed Readings in History
HIS 9022 - Thesis Direction I
HIS 9032 - Thesis Direction II
HIS 9042 - Internship in Teach of History
HIS 9080 - Thesis Continuation
HUMAN RESOURCE DEVELOPMENT

PROGRAM DESCRIPTION
Human Resource Development (HRD) is a comprehensive program that develops HR leaders through evidence-based education and applied experiences in functional and strategic human resource management. The program is designed to provide students with a fundamental understanding of critical concepts pertaining to the field of Human Resources, aligned with the body of knowledge and competencies identified by the major professional HR associations. Professionals in the field teach selected courses thereby adding value and realism to the program. The classes are enriched through the student composition of professionals with years of HR and business experience and individuals launching their HR careers as recent undergraduates and those seeking to transition from other careers or as they return to work. Graduates of the program not only expand their general professional knowledge in HR, but also acquire new and specific skills in strategic planning, analytics and research methods for application in increasingly dynamic organizational environments. Our graduates become global HR thought leaders driving high performing, inclusive organizations that provide meaningful work experiences. The HRD Graduate Program offers a 36-credit MS in Human Resource Development, and four 15-credit certificate programs. The certificates can be earned in conjunction with the MS degree or as stand-alone certificates.

These programs are offered either on-campus or online. The description below primarily describes the campus-based program. For information on the online program, please visit gradartsci.villanova.edu and look for the HRD program in the list of all online programs.

COMBINED BACHELOR/MASTER PROGRAM IN HUMAN RESOURCE DEVELOPMENT
Qualified students are invited to apply for a limited number of spots (refer to HRD website for application details) for the combined BA in Psychology & MS in HRD & BA in Interdisciplinary Studies & MS in HRD program designed to offer undergraduate students a planned educational track that will prepare them for a career in the field of human resources. Students should apply directly to the Program Director in their junior year of undergraduate study. Students will then be permitted to double-count up to nine (9) credits of graduate study towards both their bachelor and master degrees. Students are eligible for up to six (6) credits of tuition remission in the last semester(s) of their master’s degree. Students will work closely with their advisor to ensure the appropriate graduate coursework is taken while still enrolled as an undergraduate student. Students must maintain a graduate GPA of 3.00 and students are not permitted to enroll in more than sixteen (16) credits while still enrolled as an undergraduate student. Students should refer to the Graduate Studies Combined Bachelor Master Programs website for detailed policies and procedure.

ADMISSION REQUIREMENTS
In addition to meeting the general requirements for admission to the graduate school, an applicant should have a bachelor’s degree preferably with a major in an area of the social or behavioral sciences or business, though applicants from other disciplines will be
given serious consideration. While applicants’ qualifications will be considered in their entirety, in general, applicants should have a 3.0 or higher undergraduate GPA. While not required, applicants may submit evidence of their ability to handle graduate-level work such as GRE’s, GMAT’s, prior graduate studies, relevant certifications, etc.

In addition to university supported graduate assistantships and tuition scholarships, there are two endowed fellowships available to support a graduate student enrolled on a full-time basis in the HRD program. Applicants are invited to apply for the Rohm & Haas Company James C. Tabb Fellowship and the David F. Bush Fellowship.

Master of Science in Human Resource Development

PROGRAM REQUIREMENTS
To meet the requirements for the degree, students must successfully complete the required and elective courses outlined below. The pattern of elective course work will vary according to the professional objectives of the student. The program requires 36 semester hours. Students with prior HR experience and successful (‘B’ or higher) completion of a research methods course may seek waivers of two prerequisite classes prior to matriculating, thereby making the program of study 30 semester hours. For all general advising questions, such as registration, scheduling, and registration PINs, students should contact the HRD Program Coordinator. For questions about tailoring elective options to meet career goals, or discussion about career options within HR, students should contact the HRD Program Coordinator who will schedule an appointment with a faculty advisor.

The final requirement for the degree is the completion and passing of a capstone experience. The capstone can be satisfied by passing a comprehensive test or completing an experiential project. HRD’s comprehensive test option includes passing HRD’s comprehensive exam, passing a professional certification examination in Human Resources, such as the PHR/SPHR/GPHR or the SHRM-CP/SHRM-SCP, or another HR professional certification that has prior approval from HRD. The experiential project option can be fulfilled through an intensive HR professional internship (only open to students who enter the program required to take Introduction to HR in the Business World) or an HR work-based research project (open to HRD students with strong writing, research, and analytical skills with prior approval required). Students approved for the experiential project must submit a comprehensive paper as the final work product for evaluation. Contact the HRD Program Coordinator for additional information.

Special Notes: There are four (4) Psychology courses offered as part of the HRD curriculum. Two of these are required courses - PSY8475 and PSY8875. Applicants with more than one (1) year of professional HR experience may seek and be approved for a waiver of HRD8101. Applicants who have completed a research methods class may seek and be approved for a waiver of HRD8102.
REQUIRED COURSES
HRD 8003 Financial and Human Capital
HRD 8006 HR Analytics
HRD 8101 Introduction to HR in the Business World*
HRD 8102 Critical Evaluation and Research Writing*
HRD 8210 Strategic Workforce Planning
HRD 8215 Employment Law
HRD 8419 Foundations of Strategic Human Resources
PSY 8475 Training and Development
PSY 8875 Organizational Development
*May be waived if specific criteria are met at time of admission. See Special Notes above.

ELECTIVES
HRD 8008 Quantitative and Qualitative Research Methods (6 credits)
HRD 8012 Individual Research in Human Resource Development (3 credits)
HRD 8212 Total Rewards: Compensation (3 credits)
HRD 8213 Total Rewards: Benefits (3 credits)
HRD 8214 HR Technology (3 credits)
HRD 8319 Intro to Human Resources (3 credits)
HRD 8420 Strategic and Global HR Leadership (3 credits)
HRD 8421 Diversity in a Global Economy (3 credits)
PSY 8425 Organizational Behavior (3 credits)
HRD 8499 Special Issues in HRD (3 credits)

The courses below are all electives of either 1 or 1.5 credits. The offerings vary by semester. Please check the master catalog for the courses given (and associated credits) for the current semester.

HRD 8301 Work/Life Balance
HRD 8302 International HR
HRD 8309 Project Management
HRD 8314 Stress Management
HRD 8320 Consulting in HR
HRD 8330 Human Resource Ethics
HRD 8331 Conducting HR audits
HRD 8333 Executive Coaching
HRD 8339 Performance Management
HRD 8345 Relational Capital
HRD 8346 Managing Strengths
HRD 8899 Special Topics in HRD
ONE CREDIT COURSES

The number of courses will vary each semester. Please check the master catalog for the courses given for the current semester. Six one-credit courses may be used to substitute for two three credit electives.

HRD 8301 Work/Life Balance
HRD 8302 International HR
HRD 8306 Competency Assessment
HRD 8309 Project Management
HRD 8314 Stress Management
HRD 8320 Consulting in HR
HRD 8321 Corporate Ethics
HRD 8328 Finding Talent
HRD 8331 Conducting HR Audits
HRD 8333 Executive Coaching
HRD 8334 Selection and Termination Part I
HRD 8335 Selection and Termination Part II
HRD 8336 Safety in the Workplace
HRD 8338 Recruiting and Retention
HRD 8339 Performance Management
HRD 8344 Feedback
HRD 8345 Relational Capital
HRD 8346 Managing Strengths
HRD 8347 HR Innovation
HRD 8899 Special Topics in HRD
HR Business Partner Certificate

The HR Business Partner Certificate will provide students with a strong foundation in the major human resources functions which integrate to support the overall objectives of the business. All courses taken in the certificate are directly transferable to the MS in HRD, if students should decide to complete the MS degree.

PROGRAM REQUIREMENTS
The HR Business Partner certificate is comprised of 15 credits. Prior to beginning any of the HRD certificate programs, students must complete or receive waivers for two prerequisite courses: HRD 8101 and HRD 8102. Students with a year or more of HR experience are eligible to waive HRD 8101: Introduction to HR in the Business World. Students with prior research writing experience are eligible to waive HRD 8102: Critical Evaluation and Research Writing.

Required Courses (3 courses, 3 credits each = 9 credits)
- HRD 8419 Foundations of Strategic HR
- HRD 8003 Financial and Human Capital
- HRD 8215 Employment Law

Elective Courses (2 courses, 3 credits each = 6 credits)
- Students must select two of the following courses:
- PSY 8475 Training and Development
- HRD 8212 Total Rewards: Compensation
- HRD 8213 Total Rewards: Benefits

HR Leadership Certificate

The HR Leadership Certificate is designed for HR professionals who will assume leadership roles in their organization. The courses in this certificate focus on aligning the human resource strategy with the strategic organizational objective. All courses taken in the certificate are directly transferable to the MS in HRD, if students should decide to complete the MS degree.

PROGRAM REQUIREMENTS
The HR Leadership certificate is comprised of 15 credits. See below for the breakdown of credits that must be completed. Prior to beginning any of the HRD certificate programs, students must complete or receive waivers for two prerequisite courses: HRD 8101 and HRD 8102. Students with a year or more of HR experience are eligible to waive HRD 8101: Introduction to HR in the Business World. Students with prior research writing experience are eligible to waive HRD 8102: Critical Evaluation and Research Writing.

Required Courses
- PSY 8875 Organization Development (3 credits)
- HRD 8003 Financial & Human Capital (3 credits)
- HRD 8420 Strategic & Global HR Leadership (3 credits)
- HRD 8421 Diversity in a Global Economy (3 credits)
Organizational Development Certificate

The certificate in Organization Development will prepare students to evaluate overall organization effectiveness and lead planned change initiatives in their organization resulting in positive organization change. All courses taken in the certificate are directly transferable to the MS in HRD, if students should decide to complete the MS degree.

PROGRAM REQUIREMENTS

The Organization Leadership certificate is comprised of 15 credits. See below for the breakdown of credits that must be completed. Prior to beginning any of the HRD certificate programs, students must complete or receive waivers for two prerequisite courses: HRD 8101 and HRD 8102. Students with a year or more of HR experience are eligible to waive HRD 8101: Introduction to HR in the Business World. Students with prior research writing experience are eligible to waive HRD 8102: Critical Evaluation and Research Writing.

Required Courses (5 courses, 3 credits each = 15 credits)
PSY 8875 Organizational Development
HRD 8210 Strategic Workforce Planning
PSY 8475 Training and Development
HRD 8421 Diversity in a Global Economy
PSY 8425 Organizational Behavior

HR Analytics and Research Certificate

The courses in the HR Analytics & Research Certificate will lead students to the use of evidence-based analysis through the understanding of quantitative and qualitative research methods that will inform strategic business decisions. All courses taken in the certificate are directly transferable to the MS in HRD, if students should decide to complete the MS degree.

PROGRAM REQUIREMENTS

The HR Analytics & Research certificate is comprised of 15 credits. See below for the breakdown of credits that must be completed. Prior to beginning any of the HRD certificate programs, students must complete or receive waivers for two prerequisite courses: HRD 8101 and HRD 8102. Students with a year or more of HR experience are eligible to waive HRD 8101: Introduction to HR in the Business World. Students with prior research writing experience are eligible to waive HRD 8102: Critical Evaluation and Research Writing.

Required Courses
HRD 8006 HR Analytics (3 credits)
PSY 8875 Organizational Development (3 credits)
HRD 8007 Quantitative & Qualitative Research Methods (6 credits)
HRD 8214 HR Technology (3 credits)
PROGRAM DESCRIPTION
The Master of Arts in Liberal Studies program allows students to shape their own course of study across the graduate curriculum in the humanities and social sciences. Through Liberal Studies, students can combine multiple interests through an interdisciplinary and coherent approach to graduate education.

PROGRAM REQUIREMENTS
The MA in Liberal Studies requires the successful completion of thirty credits of graduate course work with a minimum grade point average of 3.0. The thirty credits, or 10 three-credit courses, consist of the following:

• Two (2) foundation courses (LST 7100 and LST 7101)
• Seven (7) courses chosen from either LST courses or courses in other graduate departments
• The Directed Readings course (LST 8000)

LST students begin the program with two Liberal Studies foundation courses, one ancient and one modern. The LST Foundation courses (Ancient and Modern) serve to give incoming LST students a broad background in some of the key texts and ideas of world civilization. In addition, they provide the LST students with an introduction to the skills and expectations which are consistent with graduate level work in the humanities and social sciences.

The course numbers are:

• LST 7100 Foundation/Ancient
• LST 7101 Foundation/Modern

After taking the required Foundation courses, the student is free to choose twenty-one credits (seven three-credit courses, or groups of three one-credit courses) from the regular graduate course offerings found within Liberal Studies or in the other graduate departments in the humanities and social sciences at Villanova. To ensure a breadth of exposure to multiple disciplines, students may take no more than three courses in any one graduate department (with the exception of Liberal Studies; students may take as many Liberal Studies courses as they wish). At the end of the seven courses, students take the Directed Readings course as a capstone to their studies.

All courses, including the Directed Readings requirement, will be selected by the student in consultation with his/her academic advisor. It is expected in completing the Liberal Studies program’s requirements that the student will select courses that form an integrated course of studies, either shaped by the student’s individual interests, or shaped through the Certificate programs (see below for a list of available Certificates through Liberal Studies).
COMPLETING THE PROGRAM
There are two requirements for completing the program: The Directed Readings course and the Qualifying Portfolio.

The Directed Readings course is a research course of the student’s own design. It should explore a topic which has developed out of the student’s graduate work in Liberal Studies; it should also be a subject which the student wishes to pursue in greater depth. In addition, the Directed Readings experience enables the student to cap his/her graduate studies with a culminating essay or project. Many students choose to write a thesis (roughly 40 pages long), but depending on the topic and research/analysis methods, other project models may be more appropriate. The student should work closely with his/her advisor to decide on the format of the project. But whatever form it takes, the final result of the Directed Readings should be a significant and tangible work of graduate level research and analysis.

In addition, the student should work closely with the advisor throughout the process of reading, research, and writing. We recommend that the advisor set up a schedule with the student for the following submissions:

1. Thesis or project proposal (4-5 pages)
2. Reading list
3. Outline of project
4. Essay drafts
5. Final version of project/thesis

The student should follow the deadlines in the Graduate Academic calendar for the submission of the final project/thesis.

The thesis should conform to the academic standards of the primary discipline (including bibliographic citation method, research methods, etc). In addition, because Liberal Studies encourages interdisciplinary scholarship, we encourage students to draw on other disciplines where appropriate concerning the topic and research.

The Qualifying Portfolio consists of four papers originally submitted to satisfy the requirements for seminars taken in their normal course of study during the student’s coursework in Liberal studies. The papers should be representative of the student’s best work; in addition, the papers should indicate the scope and trajectory of the student’s course of studies. If an essay was submitted for the student’s Directed Readings, that essay may be included in the portfolio. The papers may but need not be reworked by students prior to submitting them as part of their portfolio.

The portfolio will be reviewed by a committee that includes the student’s Directed Readings advisor, the Director of Graduate Liberal Studies, and one other faculty member familiar with the student’s work. The portfolio should also be accompanied by a short narrative (no more than five pages) describing why the student chose these papers,
and how these papers demonstrate the trajectory of the student’s intellectual growth in Graduate Liberal Studies. There will thus be five items in the portfolio – four essays, plus the short narrative.

The committee will then judge the portfolio based on the following criteria:

- interdisciplinary breadth
- clear sense of trajectory
- mastery of the skills of critical research and writing on the graduate level

Once the committee has read through the portfolio, they meet with the student in a quasi-defense format to ask questions raised by the various papers and to allow the student to expand upon how these essays represent a summation of her work in Graduate Liberal Studies. The defense takes about an hour.

CERTIFICATES
The Graduate Liberal Studies program offers five certificates which may be pursued as part of the Master of Arts in Liberal Studies degree or as stand-alone certificates. The certificates are:

- American Studies
- Ancient Worlds
- Great Books
- Peace and Justice Studies
- Post-MA certificate

AMERICAN STUDIES: The Certificate in American Studies offers students the opportunity for the interdisciplinary study of America and American culture in an increasingly globalized world. Through their coursework, students will explore an integrated view of the American experience through history, politics, culture, literature, theology, art and philosophy.

Requirements for the American Studies Certificate
The certificate requires 15 credit hours or 5 three-credit courses including the following:

- Introduction to American Studies (LST 7300)
- Four courses on American topics chosen from the LST selections or from a wide range of choices across the graduate catalog.

ANCIENT WORLDS: The Certificate in Ancient Worlds allows students to gain a deeper understanding either of the intersections of ancient civilizations, such as Greece, Rome, and Mesopotamia, or of one particular ancient civilization. They will have the opportunity to explore these civilizations through history, politics, culture, literature, theology, art and philosophy.
Requirements for the Ancient Worlds Certificate
The certificate requires 15 credit hours or 5 three-credit courses, including the following:

- LST 7100– Foundation/Ancient (offers a broad background in some of the key texts and ideas of Antiquity)
- Four courses on ancient topics and/or authors chosen from the LST selections or from a wide range of choices across the graduate catalog.

GREAT BOOKS: The Certificate in Great Books allows students to explore the great books of human civilization.

Requirements for the Certificate in Great Books:
The certificate requires 15 credit hours or 5 three-credit courses including the following:

- Two LST Foundation courses (one ancient; one modern)
- Three courses designated as Great Books from among the LST selections or from selected offerings across the graduate catalog.

Peace and Justice Studies: The certificate in Peace and Justice Studies prepares students for or contributes to careers in social justice, advocacy, peacemaking, conflict resolution, journalism, teaching, and activism. Its focus is the development of leaders capable of assessing the conditions for creating social justice and maintaining peaceful relations. Certificate recipients will be prepared with background on the theoretical structures of justice as well as social, political, and historical praxis for peace and justice education.

Requirements for the Certificate in Peace and Justice Studies:
- Students must take one required course from the following regularly offered options at any time during their course of study (found in various departments, including Liberal Studies, Philosophy, and Theology): Catholic Social Teaching and Peacemaking or Theories of Justice or Social Justice or The Challenge of Peace
- Four electives from courses across the graduate curriculum which satisfy the Peace and Justice Studies requirements

POST-MA CERTIFICATE: The Post-MA Certificate allows students who wish to extend or advance their graduate study in an interdisciplinary program to apply for admission in the program leading to the Post-Master’s Certificate in Interdisciplinary Studies.

Requirements for the Post-Master’s Certificate in Interdisciplinary Studies: Certificate recipients will have successfully completed a total of 15 graduate credits including:

- One interdisciplinary LST course offered by Liberal Studies
- any additional 12 graduate credits (normally four more courses) that are approved by the Director of Liberal Studies. These additional 12 credits may be in LST or in at least two disciplines.
Required Courses for the Master of Arts in Liberal Studies degree:
  LST 7100 Foundations: Ancient
  LST 7101 Foundations: Modern
  LST 8000 Directed Readings Seminar

Additional Courses:
LST 7102, 7103 (Great Books); LST 7104 (Arts); LST 7200, 7201, 7202 (Ancient Worlds); LST 7203, 7204 (Humanities); LST 7300, 7301 (American Studies); LST 7302, 7303 (Peace and Justice Studies); LST 7304 (Social Sciences).

LST 8100 Independent Study and Research. In addition to the Directed Readings Seminar, students may opt to do an additional independent study on a topic area that is not addressed by existing courses available in the graduate curriculum.
MATHEMATICS and STATISTICS

DEPARTMENTAL PROGRAMS
The Department of Mathematics and Statistics offers two Master’s programs: Master of Arts in Mathematics and Master of Science in Applied Statistics. Courses offered in these programs normally meet weekday evenings. Each program has a core of required courses. However, within each program there are several options available, and students are encouraged to take courses from other programs when those courses fit well with their overall goals. In addition to these Master’s programs, there are several certificate programs available: Certificate of Graduate Study in the Teaching of Secondary Mathematics, Post-Master’s Certificate in Mathematics, and Certificate in Applied Statistics.

MASTER OF ARTS IN MATHEMATICS
Mathematics plays an essential part in every area of modern technology. Recognizing this diverse and important role of mathematics, the Department of Mathematics and Statistics offers a very flexible Master of Arts in Mathematics program built on a core of basic courses and a wide range of specialized electives.

By the proper selection of electives, a degree candidate may train for work as a systems analyst for a management consulting firm, an operations research analyst, a member of a research group for a computer firm, a high school teacher, a 2-year college teacher, a candidate for a PhD program in mathematics, an actuary for an insurance company or for a number of other careers involving mathematics. Sample degree programs indicating a possible selection of electives related to particular areas of mathematics can be obtained from the Department of Mathematics and Statistics.

Degree Requirements
Each student is required to successfully complete Linear Algebra (MAT 7660), at least one of four core courses (MAT 7600, MAT 7610, MAT 8650, MAT 8700), the Graduate Math Seminar (MAT 9000), and seven elective courses. The elective courses may be chosen from the following list:

MAT 7290 Geometry
MAT 7300 History of Mathematics
MAT 7305 Technology in the Teaching of Mathematics
MAT 7310 Topics in the Teaching of Mathematics
MAT 7600 Advanced Calculus
MAT 7605 Topics in Analysis
MAT 7610 Complex Analysis
MAT 7660 Linear Algebra
MAT 7670 Mathematical Logic
MAT 7750 Numerical Analysis
MAT 7770 Number Theory
Graduate Studies

MAT 7780 Financial Mathematics
MAT 7790 Dynamical Systems and Chaos
MAT 8430 Operations Research
MAT 8435 Mathematical Modeling
MAT 8600 Real Analysis
MAT 8650 Abstract Algebra
MAT 8655 Topics in Abstract Algebra
MAT 8700 Topology
MAT 8705 Topics in Topology
MAT 8740 Applied Mathematics

In addition to this list, up to four courses may be chosen from the course list offered in the Applied Statistics program.

A student interested in writing a thesis, can do so in place of two courses, including the seminar MAT 9000. The student must submit a proposal to the Director of the program, and find a faculty member interested in supervising the thesis work.

CERTIFICATE OF GRADUATE STUDY IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS
This program is intended for individuals who are presently teaching at the secondary school level. This 15-credit program consists of five graduate courses that cover the following areas: geometry, history of mathematics, statistics, using technology in the classroom, mathematical modeling, or a special topics course. These graduate courses can be applied to the requirements for the 30 credit Master of Arts in Mathematics also offered at Villanova. Moreover, all secondary school teachers are eligible for a significant tuition discount at Villanova. Applicants to this program should be teachers of mathematics who have had college calculus and a course in linear algebra.

The Certificate of Graduate Study in the Teaching of Secondary School Mathematics will be awarded upon completion of five of the following six (6) courses with a minimum GPA of 3.0 (The 15 credits are required to be from Villanova’s Mathematics and Statistics Program):

MAT 7290 Geometry
MAT 7300 History of Mathematics
MAT 7305 Technology in the Teaching of Mathematics
MAT 7310 Topics in the Teaching of Mathematics
MAT 7404 Statistical Methods
MAT 8435 Mathematical Modeling

POST-MASTER'S CERTIFICATE IN MATHEMATICS
The Post-Masters Certificate in Mathematics is intended for individuals who have already earned a master’s degree but wish to continue their graduate study. The program is open to all, but is especially well suited to the needs of middle-school and secondary-
school teachers who already have a master’s degree. The Post-Master’s Certificate will be granted on the completion of five courses with a minimum GPA of 3.0. These courses are to be chosen from the regular graduate mathematics offerings based on each individual’s interests and goals.

THE MASTERS IN MATHEMATICS COMBINED WITH THE CERTIFICATE IN STATISTICS
Since it is possible to take four courses in Statistics while pursuing the Masters in Mathematics, it takes only one more course (for a total of 11 courses) to earn both the MA in Mathematics and the Certificate in Applied Statistics.

THE MASTERS IN MATHEMATICS COMBINED WITH THE MASTERS IN APPLIED STATISTICS
With proper course choices, students may earn both a Masters in Mathematics and a Masters in Applied Statistics simultaneously with a total of just 16 courses. This requires double counting two eligible courses each way. The department web page contains a sample program showing how this can be achieved.

MASTER OF SCIENCE IN APPLIED STATISTICS

Admission Requirements
Applicants for admission to the program in Applied Statistics must hold a bachelor’s degree and must have completed undergraduate work in mathematics through multivariable calculus (usually calculus III) and linear algebra. They must also submit scores from the Graduate Record Examination (GRE). Students who already hold graduate degrees may have the GRE requirement waived with the approval of the Director of the Applied Statistics Graduate Program. Students with degrees in areas other than mathematics and statistics are encouraged to apply.

Degree Requirements
Students must successfully complete ten courses (30 credits), maintain at least a 3.00 Grade Point Average (GPA), and pass a comprehensive examination covering the material contained in the required courses. Candidates for the Master’s degree have six years to complete their degree after starting the program. Students are to consult with the Director of the Applied Statistics Graduate Program to formulate a program of study suited to their individual needs.

Required Courses
MAT 7404 Statistical Methods
MAT 7500 Statistical Programming
MAT 8400 Statistical Theory I
MAT 8401 Statistical Theory II
MAT 8406 Regression Methods
MAT 8412 Linear Statistical Models
Scheduling Courses
Students in the MSAS program must complete MAT 7404 and MAT 8400 within their first 15 credits and MAT 8401 within their first 21 credits. For a typical full-time student, the first five courses taken are MAT 7404, MAT 7500, and MAT 8400 in the fall semester, and MAT 8401 and MAT 8406 in the spring semester. These courses are generally followed by MAT 8412 and four electives in the next academic year. Modifications to this schedule may be made with approval by the Director of the Applied Statistics Graduate Program.

Elective Courses*
MAT 8408 Multivariate Methods
MAT 8410 Bayesian Statistics
MAT 8414 Categorical Data Analysis
MAT 8416 Design of Experiments
MAT 8424 Statistics Practicum
MAT 8430 Operations Research
MAT 8435 Mathematical Modeling
MAT 8440 Statistical Quality Control
MAT 8444 Time Series and Forecasting
MAT 8446 Survival Data Analysis
MAT 8448 Clinical Trials Design and Analysis
MAT 8450 Longitudinal Data Analysis
MAT 8452 Nonparametric Statistics
MAT 8454 Sampling Methods
MAT 8462 Stochastic Processes
MAT 8480 Data Mining
MAT 8790 Selected Topics I
MAT 8795 Selected Topics II
MAT 8796 Selected Topics III
MAT 8800 Independent Study

*Certain courses listed in other graduate programs may serve as electives with the prior approval of the Director of the Applied Statistics Graduate Program.

MSAS Comprehensive Examination
The Applied Statistics Comprehensive Exam is a three-hour exam that covers material from the required courses Statistical Methods, Regression, and Linear Models. The exam is offered once in the fall semester and once in the spring semester. To be eligible to take the exam, a student must have completed at least 21 credit hours prior to the semester in which the student takes the exam. The student must also have completed at least five of the six required courses and, if all six required courses have not been completed, be enrolled in the sixth required course. In the event that a student does not pass the exam on the first try, one re-examination will be permitted.
GRADUATE CERTIFICATE IN APPLIED STATISTICS
The graduate certificate is designed for students seeking to deepen their statistical knowledge and demonstrate their expertise in statistics beyond the undergraduate level. Students must complete five graduate level statistics courses (15 credits), including Statistical Methods and Regression, and maintain at least a 3.00 GPA. The course prerequisites are the same as for the MSAS, but the GRE is not required.

COMBINED BS/MS PROGRAM IN MATHEMATICS/APPLIED STATISTICS
The combined program allows highly qualified students to earn both a BS in Mathematics and an MS in Applied Statistics in less time than would be required to earn the two degrees separately. To be eligible for the program, an undergraduate Mathematics major must have at least junior status, a grade of at least A- in either MAT 4310 or MAT 7404, an overall GPA of at least 3.3, and a Mathematics major GPA of at least 3.5. After admission to the program, a student takes Applied Statistics graduate courses as an undergraduate, up to a total of four, and these courses can count towards both the BS in Mathematics and the MS in Applied Statistics. Students who are interested in the program should apply as early as possible and should consult with the Director of the Applied Statistics Graduate Program about their undergraduate course choices. Usually, MAT 7404 (or MAT 7500 for students who completed MAT 4310), MAT 8400, MAT 8401, and MAT 8406 are taken during the junior and senior years as an undergraduate student.
PROGRAMS OF STUDY
The department offers a program of study leading to the degrees of Doctor of Philosophy and Master of Arts. The departmental program emphasizes continental philosophy, the history of philosophy, and social and political philosophy (especially critical theory).

The Department of Philosophy also offers a PhD in philosophy with a specialization in the interdisciplinary study of philosophy and theology. The Department is committed to pluralism in teaching and research that expands the diversity of philosophy.

THE DOCTOR OF PHILOSOPHY PROGRAM
Course Requirements. Students are required to complete 48 credits of course work. Advance credit for transfer students will be determined on an individual basis. Students who follow the interdisciplinary philosophy and theology track are required to complete a total of 54 credits of course work, of which 42 credits will be in philosophy and 12 credits in theology.

Language Requirements. Students must pass an examination in one natural language other than English related to their research.

Examinations. Students must take and successfully complete two sets of “comprehensive” examinations before they are allowed to begin work on the dissertation. The first set is called The MA Qualifying Portfolio and Oral Exam. Details are available at the following web page: www1.villanova.edu/villanova/artsci/philosophy/academic-programs/doctorate/current/compexam.html. The second set is the preliminary exam (preliminary to beginning work on the dissertation), which is taken after all course work and language exams are completed. This exam tests comprehensive knowledge of a figure or theme in philosophy directly related to the topic the student has chosen for their dissertation.

Master of Arts. The MA is awarded to students in the PhD program who have completed 30 credits of course work, passed the language exam, and the MA Qualifying Portfolio and Oral Exam. No independent MA is offered.

Dissertation. After successfully passing the preliminary examinations, students are qualified to begin writing the dissertation. This process begins with a written proposal defended before the student’s dissertation committee and ends with an oral defense of the completed dissertation in a public forum.

Maximum time in program: Students must complete their coursework within a four-year time period. By the end of their sixth year in the program, students must have defended their dissertation proposal. Students must complete their degree within eight years. Up to an additional two years may be permitted by request. This extension request would be considered by the graduate dean after receiving recommendations from the graduate director. The graduate director will consult with the dissertation committee and the graduate faculty in order to make a recommendation to the Dean.
Full details on course requirements, comprehensive examinations, language and preliminary examinations, and the dissertation are available from the Director of Graduate Studies.

Each year a certain number of graduate assistantships will be made available to students in the doctoral program; students receiving these awards will become part of a supervised teacher training program. An additional assistantship is dedicated to students enrolled in the interdisciplinary line. These students also participate in the teacher training program.

GREATER PHILADELPHIA PHILOSOPHY CONSORTIUM

The Villanova University Philosophy Department is a member of the Greater Philadelphia Philosophy Consortium, a co-operative arrangement which includes the graduate philosophy programs at the University of Pennsylvania and Temple University. The graduate programs in the Consortium co-operate and share facilities in a number of different ways. Villanova students are invited to take or audit graduate philosophy courses offered by the schools in the Consortium. Consult the Director of Graduate Studies for further details.

DEPARTMENTAL COURSES

PHI 7000 The Pre-Socratics (3 cr)
PHI 7110 The Philosophy of Socrates (3 cr)
PHI 7120 Plato: Middle Dialogues (3 cr)
PHI 7130 Plato: Later Dialogues (3 cr)
PHI 7220 Aristotle: Theoretical Philosophy (3 cr)
PHI 7230 Aristotle: Practical Philosophy (3 cr)
PHI 7300 Roman Philosophy
PHI 7330 Medieval Philosophy (3 cr)
PHI 7340 Topics in the History of Philosophy (3 cr)
PHI 7410 Augustine’s Speculative Philosophy (3 cr)
PHI 7420 Augustine’s Practical Philosophy (3 cr)
PHI 7510 Aquinas: Metaphysics (3 cr)
PHI 7520 Ethics of Law (3 cr)
PHI 7610 Topics in Early Modern Philosophy (3 cr)
PHI 7640 Spinoza
PHI 7710 Kant’s First Critique (3 cr)
PHI 7720 Kant’s Practical Philosophy (3 cr)
PHI 7730 Kant’s Third Critique (3 cr)
PHI 7810 From Romanticism to Idealism (3 cr)
PHI 7910 Hegel’s Phenomenology of Spirit (3 cr)
PHI 7920 Hegel’s Logic (3 cr)
PHI 7930 Hegel’s Philosophy of Right (3 cr)
PHI 8020 Marx (3 cr)
PHI 8070 Nietzsche (3 cr)
PHI 8090 American Philosophy (3 cr)
PHI 8110 Contemporary Analytical Philosophy (3 cr)
PHI 8120 Wittgenstein (3 cr)
PHI 8210 Husserl
Graduate Studies

PHI 8220 Heidegger’s Being and Time (3 cr)
PHI 8230 Sartre (3 cr)
PHI 8250 Merleau-Ponty (3 cr)
PHI 8260 Gadamer (3 cr)
PHI 8280 Arendt (3 cr)
PHI 8310 Levinas (3 cr)
PHI 8340 Derrida (3 cr)
PHI 8350 Foucault (3 cr)
PHI 8420 Healthcare Ethics (3 cr)
PHI 8430 Concepts of Health and Disease (3 cr)
PHI 8510 Political Philosophy (3 cr)
PHI 8520 Liberalism and its Critics (3 cr)
PHI 8530 Critical Theory in the Frankfurt School (3 cr)
PHI 8540 Feminist Theories (3 cr)
PHI 8550 Body Politics (3 cr)
PHI 8560 Philosophy of Language (3 cr)
PHI 8610 Topics in Postmodernism (3 cr)
PHI 8630 Philosophy of the Image (3 cr)
PHI 8640 Philosophy of Contemporary Music (3 cr)
PHI 8710 Seminar in Philosophical Topics (3 cr)
PHI 8720 Seminar in Philosophical Figures (3 cr)
PHI 8815 Contemporary Hermeneutics
PHI 8830, 8835 Independent Study I, II (3 cr)
PHI 8870, 8875 Consortium I, II (3 cr each)
PHI 8885 Critical Theory Workshop
PHI 8920, 8930 Teaching Internship, Pedagogy Workshop (1 cr each)
Permission of the instructor is required.
PHI 9010 – 001 Dissertation (0 cr)
PHI 9081 – 001 Dissertation Continuation (0 cr)
Prerequisite: PHI 9010
DEPARTMENTAL REQUIREMENTS
A student pursuing the MA in Political Science must complete PSC 7000 (Research Concepts and Approaches) and one course from each of three concentrations: Political Philosophy, American Government, and International Relations/Comparative Politics. Students will take their remaining six courses from any of the three concentrations. Students can take up to six credits in other departments for courses related to their course of study.

A total of thirty credits is required for the degree. Students may complete ten courses or complete eight courses and write a thesis. All students must take a written, qualifying exam during the semester in which they are completing their fifth course. Students completing the ten courses also have to take a written comprehensive capstone exam prior to the conclusion of their studies. Students writing a thesis do not have to take the comprehensive capstone exam.

COMBINED BACHELOR/MASTER PROGRAM IN POLITICAL SCIENCE
A select group of highly qualified students are invited to apply for the combined bachelor/master degree program. Students should apply directly to the program director in their junior year of undergraduate study. Students will then be permitted to double-count up to nine credits of graduate study towards both their bachelor and master degrees. Students are eligible for up to six credits of tuition remission in the last semester(s) of their master’s degree. Students will work closely with their advisor to ensure the appropriate graduate coursework is taken while still enrolled as an undergraduate student. Students are eligible for up to six credits of tuition remission in the last semester(s) of their master’s degree. Students must maintain a graduate GPA of 3.00 and students are not permitted to enroll in more than 16 credits while still enrolled as an undergraduate student. Students should refer to the Combined Bachelor Master Programs website for detailed policies and procedure.

The qualifying and comprehensive exams consist of four pools of questions (General, American Government, Comparative Politics, and International Relations). Students have to answer two questions. The first question must be drawn from the pool of general questions. The second question must be drawn any of the other three pools. Students cannot answer the same questions on the comprehensive capstone exam as they did on the earlier qualifying exam.

Each answer should be roughly ten typewritten pages with one-inch margins. The questions are available at the beginning of the academic year. The exams are written at home. Exams are administered twice annually and should be handed in by the Friday following fall or spring break. The retake exams are due on the Friday of last week of classes. (Reading Day)

Answers will be graded according to the student’s ability to demonstrate mastery of substantive material and integrate concepts learned in their classes. Students are expected to cite specific material covered in classes. Three grades are possible: “exceeding
expectations,” “meeting expectations” and “not meeting expectations”. Students who fail the exam must retake it. Failure to pass a second qualifying exam will result in dismissal from the program. Failure to pass second comprehensive capstone exam will lead to denial of the degree.

CERTIFICATES
Students may earn a certificate in either American Politics or International Relations by satisfactorily completing five graduate courses in one of those two areas. Students may also choose to combine the MA in Political Science with a Certificate in Applied Statistics or a Certificate in Non-Profit Management. Curricula for these combined programs can be found on the Department of Political Science's website.

DEPARTMENTAL PROGRAM
General Courses:
PSC 7000 Research Concepts & Approaches
PSC 7175 Topics in American Government
PSC 7275 Topics in International Relations
PSC 7375 Topics in Comparative Politics
PSC 9078 Thesis Development Seminar
PSC 9079 Thesis Continuation

American Government:
PSC 8110 U.S. Congress
PSC 8120 U.S. Presidency
PSC 8130 U.S. Constitutional Interpretation
PSC 8140 Race and Ethnicity
PSC 8160 Political Communication
PSC 8165 Cyberpolitics
PSC 8170 Public Opinion
PSC 8180 National Security Policy
PSC 8185 US Intelligence
PSC 8190 American Party Politics

International Relations:
PSC 8210 Globalization
PSC 8220 International Law
PSC 8230 International Organization
PSC 8255 Genocide and Mass Killing
PSC 8260 International Security
PSC 8265 Global Inequality
PSC 8270 International Political Economy
Comparative Politics:
PSC 8305 Democratization
PSC 8310 Comparative Political Economy
PSC 8315 Comparative Civil Liberties
PSC 8320 Russian Politics
PSC 8330 African Politics
PSC 8340 Middle East Politics
PSC 8360 Latin American Politics
PSC 8370 Third World Politics
PSC 8380 European Politics

Political Philosophy
PSC 8440 Religion and Politics
PSC 8455 The American Founding
PSC 8450 The Lincoln/Douglas Debates
PSYCHOLOGICAL AND BRAIN SCIENCES

DEPARTMENTAL REQUIREMENTS
The Department of Psychological and Brain Sciences offers a program leading to the degree of Master of Science in Psychology. The core curriculum is designed to provide a solid theoretical-research foundation in psychology, while the electives allow the student to pursue and develop his or her individual interests within the field. The program of study is individually tailored to meet each student’s needs and goals such that students, depending on their particular interests, are prepared to pursue any one of the major areas of specialization that comprise contemporary psychology.

Requirements for the Master of Science in Psychology include the following: PSY 8000, PSY 8100, PSY 8050, PSY 8150; four additional elective courses (one of which may be a course other than a program elective listed below, depending upon the approval of the chairperson of that discipline and the chairperson of the Department of Psychology), and thesis (PSY 9032, PSY 9033). Students also are strongly encouraged to participate in departmental colloquia (non-credit) and in the research laboratories of faculty members.

Although students are only admitted to the Master of Science program, an alternative, non-thesis, Master of Arts program is available to students who decide that a thesis project is not best suited to their educational goals. The Master of Arts program is 36 credits and requires application to the program director before August 1 following completion of the first year of the Master of Science Program. The requirements for the master of arts degree in psychology include PSY 8000, PSY 8100, PSY 8050, PSY 8150, PSY 9031, and seven additional elective courses (one of which may be a course other than a program elective listed below, depending upon the approval of the chairperson of that discipline and the chairperson of the department of psychology). Students also are strongly encouraged to participate in departmental colloquia (non-credit).

DEPARTMENTAL PROGRAM
Required Courses
PSY 8000 Seminar in Research: Concepts, Issues, and Methods
PSY 8100 Statistics and Experimental Design
PSY 8050 Biopsychology
PSY 8150 Cognitive Psychology
PSY 9032 Thesis I
PSY 9033 Thesis II
Program Electives
PSY 8175 Animal Learning and Cognition
PSY 8200 Perception
PSY 8225 Psychopathology
PSY 8250 Cognitive Behavioral Therapy
PSY 8275 Approaches to Psychotherapy
Villanova University

PSY 8300 Developmental Psychology
PSY 8325 Psychological Testing
PSY 8350 History and Systems
PSY 8400 Personality: Empirical Research
PSY 8450 Psychological Measurement
PSY 8500 Psychopharmacology
PSY 8550 Social Psychology
PSY 8900 Special Topics
PSY 9031 Individual Research
PSY 9080 Thesis Continuation Must be taken subsequent to completion of
PSY 9033 if thesis is not completed. (0 cr)

Graduate Psychology Courses offered for graduate students in other departments or
programs (MS Psychology students may take these courses only with special permission
and are not permitted to take more than one of these courses as electives).

PSY 8425 Organizational Psychology
PSY 8475 Organizational Training
PSY 8625 Psychopathology of Childhood
PSY 8650 Psychology of Child and Adolescent Development
PSY 8750 Behavior Modification Approaches in Counseling
PSY 8800 Psychology of Personal Adjustment
PSY 8825 Psychology of Personnel Administration
PSY 8850 Personality Theories
PSY 8875 Psychology of Organizational Change
PROGRAM DESCRIPTION
The mission of the Master of Public Administration (MPA) program is to offer graduates the knowledge of values, roles, skills, and practices that will help them become competent professionals capable of ethical, intelligent, inclusive, and creative leadership in public service. This program is offered either on-campus or online. The description below primarily describes the campus-based program. For information regarding the fully online program, please visit gradartsci.villanova.edu and look for the online program in the program list.

DEGREE REQUIREMENTS
The MPA degree is a 36- to 39-credit program designed to prepare students for management careers in the public and nonprofit sector. Students will meet with the MPA Director when they enter the program in order to develop a plan of study. Subsequent semesters, they meet with their assigned advisor. Required courses provide students with the knowledge of public administration theory and history, applied research methods, leadership ethics, organization theory and design, and the management of financial and human resources needed to be successful in their careers. Elective courses provide students with the options they need to prepare a curriculum tailored to attain a personalized graduate degree in public administration.

The MPA requires at least three years of relevant work experience. Students starting the program without such experience must complete a three-credit internship (MPA 8010). Students work with the MPA Director to arrange internships. Students with relevant work experience in public administration may apply for a waiver of MPA 8010 by submitting a written request to the MPA Director. Students completing an internship take 39 credits for the degree. Students must work 300 hours in their internship, submit five memos to the MPA Director throughout the duration of the semester, and write a concluding paper to earn three credits.

Students also must pass a written comprehensive examination to complete the degree. The comprehensive exam serves as a capstone experience in the MPA program. It is designed to provide students with the opportunity to integrate and to apply the knowledge they have gained through their coursework in the program. In order to pass the exam, students are expected to apply ideas (i.e., theories, concepts, practices, and examples) learned in the MPA program accurately and offer a reasonable argument defending their responses to exam questions.
GRADUATE CERTIFICATE IN PUBLIC ADMINISTRATION
The Graduate Certificate in Public Administration is an option for individuals who do not seek a Master’s degree, or who wish to combine a specialization in public administration with a Master’s degree they have already earned or will earn. For example, students who have earned or are in the process of earning an MBA, an MA in Political Science, Theater, History, or Theology may want to earn certificates in Public Administration, City Management, or Nonprofit Management in order to enhance their careers with government and/or nonprofit organizations.

The Graduate Certificate in Public Administration is a 15-credit program. Students may enroll in the Certificate in Public Administration as either a pre-Master’s or post-Master’s Certificate program.

There are two required courses:
MPA 8011 Public Administration Theory (3 credits)
MPA 8061 Organization Theory (3 credits)

Students choose nine credits of electives from the regular graduate courses offered for MPA students.

GRADUATE CERTIFICATE IN CITY MANAGEMENT
The Graduate Certificate in City Management is based on the International City/County Management Association’s inventory of 17 practices for effective local government management. Students may enroll in the Certificate program as (1) a pre-Master’s certificate, (2) a specialization with the MPA program, or (3) as a post-Master’s certificate. The Certificate is a 15-credit program.

There are three required courses:
MPA 8500 Effective City Management (3 credits)
MPA 8550 Urban Politics and Government (3 credits)
MPA 8031 Financial Management (3 credits)

Students choose six credits of electives from the following courses:
MPA 8800 Managing Public Networks (3 credits)
MPA 8400 Strategic Planning (3 credits)
MPA 8299 Topic: Land Use and Zoning (1 credit)
MPA 8299 Topic: Economic Development Strategies (1 credit)
MPA 8299 Topic: Debt Management (1 credit)
MPA 8299 Topic: Labor Relations (1 credit)
MPA 8299 Topic: Program Evaluation (1 credit)
MPA 8299 Topic: Effective Public Affairs (1 credit)
MPA 8299 Topic: Emergency Management (1 credit)
MPA 8299 Topic: Civilian-Military Relations (1 credit)
GRADUATE CERTIFICATE IN NONPROFIT MANAGEMENT

The Graduate Certificate in Nonprofit Management was designed based on best practices in nonprofit education as well as through consultations with students, alumni, and non-profit professionals. Students may enroll in the Certificate program as (1) a pre-Master’s certificate, (2) a specialization with the MPA program, or (3) as a post-Master’s certificate. The Certificate is a 15-credit program.

There are three required courses:

- MPA 8600 Effective Nonprofit Management (3 credits)
- MPA 8700 Fundraising for Nonprofit Organizations (3 credits)
- MPA 8031 Financial Management (3 credits)

Students choose six credits of electives from the following courses:

- MPA 8021 Leadership Ethics (3 credits)
- MPA 8041 Human Capital Management (3 credits)
- MPA 8100 Decision-Making (3 credits)
- MPA 8199 Special Topics in Public Administration (3 credits)
- MPA 8200 Administrative Communication (3 credits)
- MPA 8400 Strategic Planning (3 credits)
- MPA 8800 Managing Public Networks (3 credits)
- MPA 8900 Public Policy (3 credits)
- MPA 8299 Topic: Land-Use and Zoning (1 credit)
- MPA 8299 Topic: Economic Development Strategies (1 credit)
- MPA 8299 Topic: Program Evaluation (1 credit)
- MPA 8299 Topic: Effective Public Affairs (1 credit)
- MPA 8299 Topic: Emergency Management (1 credit)
- MPA 8299 Topic: Leading Social Innovation (1 credit)
- MPA 8299 Topic: Marketing in the Cultural Sector (1 credit)
- MPA 8299 Topic: Establishing a Nonprofit Organization (1 credit)
- MPA 8299 Topic: Performance Measurement (1 credit)
- MPA 8299 Topic: Civilian-Military Relations (1 credit)

In addition to the above electives, students may select one of the following Political Science courses, if offered:

- PSC 8310: Comparative Political Economy
- PSC 9050: International Organizations

MPA 8012 and MPA 8013 (Individual Research I and II) may also be considered for the certificate with the permission of the MPA Director.

JD-MPA JOINT DEGREE PROGRAM

The JD-MPA joint degree program enables students to earn both a JD and an MPA degree simultaneously at Villanova.
Applicants must apply to the Charles Widger School of Law and the MPA program and must meet the criteria for admission to both programs. Applicants must take the LSAT exam and include their LSAT score report in their application to the MPA program. The GRE is waived for JD-MPA students. Applicants may apply to both programs before they begin their studies in either program. Students cannot take MPA classes during their first year in Law School, so they need to work with Graduate Studies in the College of Liberal Arts and Sciences to take a leave or postpone their MPA studies for one academic year if they are accepted into the JD-MPA program. Alternatively, JD students may apply to the MPA program in the second semester of their enrollment in the JD program. While it is possible to start the JD program before taking MPA courses, it is not possible to start the MPA program before taking JD classes. MPA applications should be submitted by May 1st.

Four law courses will count towards the JD and the MPA degree. Four MPA courses will count towards the JD and the MPA degree. Only students enrolled in the JD-MPA Program may have four courses in each program double counted as described above.

The MPA Director and the School of Law’s Associate Dean for Academic Affairs identify the Law and MPA courses that may count in each program. The School of Law will accept the four MPA courses toward the JD so long as the student earned a “C” or better. The School of Law will change the MPA courses to appear as Law courses on the transcript, but the grades for those courses will not affect the Law school grade point average (GPA).

The CLAS Graduate Dean will accept four Law courses toward the MPA so long as the student earned a “C” or better. The Registrar will list the Law courses as Law courses on the MPA transcript, but the grades will not affect the MPA program GPA. In short, the Law courses will be treated as “transfer” credits.

Students must maintain a 2.75 GPA in the School of Law and a 3.00 GPA in the MPA program in order to remain in the JD-MPA program.

Students may complete one of Villanova’s joint graduate programs. For example, students may complete the JD-MBA or the JD-MPA, but not both.

While completing the JD degree, students must complete at least the four MPA courses that will count only in the MPA program and the four MPA courses that will count in both programs. The remaining four MPA courses may be taken after completing the JD degree. The MPA degree must be completed within the normal timeframe stated by Graduate Studies. Students in the JD-MPA joint degree program must complete the six required MPA courses.

Students may not take MPA courses at another institution to complete the degree.

If a Law student works an externship approved by the Law School and by the MPA Director, then MPA 8010 will be waived. Otherwise, the student must complete an internship for an additional 3 MPA credits.
At the completion of the MPA program, students will be required to take the written comprehensive exam. The comprehensive exam serves as a capstone experience in the MPA program. It is designed to provide students with the opportunity to integrate and apply the knowledge gained through their coursework in the program.

**MPA CURRICULUM**

We periodically update the types of courses we offer to reflect trends in the study of public administration as well as faculty expertise and interests. Individual research courses are reserved for advanced students with specific needs not met by available elective coursework. Approval for the individual research course must be obtained from the MPA Director. The MPA Director may also permit students to take as many as two elective courses from another program.

**Required Courses (18 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPA 8011</td>
<td>Public Administration Theory</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8021</td>
<td>Leadership Ethics</td>
<td>3</td>
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<tr>
<td>MPA 8031</td>
<td>Financial Management</td>
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<tr>
<td>MPA 8041</td>
<td>Human Capital Management</td>
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<tr>
<td>MPA 8051</td>
<td>Applied Data Analysis</td>
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<td>MPA 8061</td>
<td>Organization Theory</td>
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**Elective Courses (18 credits)**

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>MPA 8100</td>
<td>Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8200</td>
<td>Administrative Communication</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8400</td>
<td>Strategic Planning</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8500</td>
<td>Effective City Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8550</td>
<td>Urban Politics and Government</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8600</td>
<td>Effective Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8700</td>
<td>Fundraising for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8800</td>
<td>Managing Public Networks</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8900</td>
<td>Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8199</td>
<td>Special Topics in Public Administration</td>
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<td>MPA 8299</td>
<td>Special Topics in Public Administration</td>
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**Contingent Courses**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MPA 8010</td>
<td>Management Internship</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8012</td>
<td>Individual Research I</td>
<td>3</td>
</tr>
<tr>
<td>MPA 8013</td>
<td>Individual Research II</td>
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</tbody>
</table>
DEPARTMENTAL PROGRAMS
The MA in Theatre combines rigorous courses in academic and practical theater. The core curriculum includes courses in the history of theater and production, theory, criticism, and analysis of dramatic literature. Laboratory courses include studies in acting, design, play writing and directing. Courses provide expertise in research and writing, as well as in production and performance. The degree culminates in a thesis project which specializes in the particular interest of the student including research and artistic projects. The academic and practical knowledge of the theater, achieved in the degree, provides the crucial tools for the development of professional theater practitioners, educators or scholars.

Graduation
Students will need a total of 36 credits to complete the Master’s in Theatre program. Students will need a total of 39 credits to complete the Master’s in Theatre degree with a certificate in Nonprofit Management (27 credits in Theatre, 12 credits in Nonprofit Management). Additional graduation requirements include a Comprehensive Exam upon completion of the first year and the successful oral defense of a Thesis project in the second year. A possible curriculum for the comprehensive program is as follows:

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
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<tbody>
<tr>
<td>1st Year - Dramaturgy (Classic)</td>
<td>Dramaturgy (Modern)</td>
</tr>
<tr>
<td>Script Analysis</td>
<td>Playwriting</td>
</tr>
<tr>
<td>Acting</td>
<td>Characterization</td>
</tr>
<tr>
<td>2nd Year - Vision &amp; Form (Classic)</td>
<td>Vision &amp; Form (Modern)</td>
</tr>
<tr>
<td>Directing</td>
<td>Directing Styles</td>
</tr>
<tr>
<td></td>
<td>Musical Theatre</td>
</tr>
</tbody>
</table>

Graduate Certificate in Practical Theatre
This program is designed to give a broad background in practical theatre to the student who may not wish to pursue the MA degree. By taking five performance and production-related courses and participating in the theatre season, the student will acquire the vocabulary and methodology fundamental to the practice of theatre.

The curriculum will be developed in consultation with an academic advisor. Upon satisfactory completion of 15 credits, students will be awarded the Graduate Certificate in Practical Theatre.

Master of Arts in Theatre with Certificate in Nonprofit Management
This program combines the scholarly, creative and practical curriculum of the MA in Theatre with a certificate designed to facilitate a career in the nonprofit sector. In addition to the theater curriculum, you will take a course in Arts Administration and three courses from Villanova’s Master of Public Administration program in nonprofit management: Financial Management of Nonprofits, Effective Nonprofit Management and Nonprofit Fundraising. This unique combination of creative, practical theatre and nonprofit management expertise can position you for a sustainable career in the nonprofit sector.
Graduate Studies

All courses listed are 3-credits each unless otherwise noted.

**CORE COURSES**
THE 7100 Principles of Acting (3 cr)
THE 7110 Script Analysis (3 cr)
THE 7120 Dramaturgy (Classic) (3 cr)
THE 7130 Dramaturgy (Modern) (3 cr)
THE 7140 Dramatic Vision & Form (Classic) (3 cr)
THE 7150 Dramatic Vision & Form (Modern)(3 cr)

**ELECTIVE COURSES**
THE 7200, 7210, 7220 Theatre Production Practicum (0 cr)
THE 8110 Voice and Movement (3 cr)
THE 8120 Characterization (3 cr)
THE 8130 Solo Performance
THE 8140 The Musical Theatre (3 cr)
THE 8160 Scenography (3 cr)
THE 8170 Directing (3 cr) *Pre-req: THE 7100 and 7110 or permission of instructor.*
THE 8190 Playwriting (3 cr)
THE 8200 Theatre Topics (3 cr)
THE 8300 The Teaching of Theatre (3 cr)
THE 9200 Special Studies—Production
THE 9210 Special Studies—Research
THE 9220 Special Studies—Voice and Movement
THE 9230 Special Studies—Acting
THE 9260 Special Studies—Scenography
THE 9270 Special Studies—Directing
THE 9280 Special Studies—Playwriting
THEOLOGY

DOCTOR OF PHILOSOPHY IN THEOLOGY (PhD)
The six-year program is designed to combine traditional MTS and PhD degree programs. It accommodates students on both a full- and a part-time basis, with provisions for extending the latter to as many as eighteen semesters. The program is rooted in the Augustinian Catholic tradition. Students pursue a deeper understanding of the manifold ways that faith and culture intersect.

Requirements
The combined program requires the completion of seventy-eight graduate credit hours of course work (less any accepted transfer credits). Full-time students complete these credits during the first seven semesters of residence, complete an additional six credits in theological education during semesters seven through ten, and enroll in one dissertation writing course when they have been approved for the dissertation phase of the program. Successful completion of our "Heart of Teaching" Theological Education Formation program is a further requirement for the terminal degree.

MASTER's PROGRAMS
All Master's programs emphasize a broad understanding of the Catholic intellectual and ministerial traditions in the light of the Second Vatican Council and the questions raised by contemporary culture. The programs prepare for secondary school teaching, lay ministry, and doctoral studies; they also provide further foundation for those in educational or ministerial leadership.

Requirements for Master of Theological Studies (MTS)
The MTS is a stand-alone degree. We also award it “on the road” to the Ph.D. degree. To earn the MTS, students complete forty-eight credit hours of course work, which include foundation courses, area courses, and free electives. The degree can be pursued along two possible tracks. The Theological Education track includes a supervised teaching practicum. The Research/Creative Project track includes a supervised research or creative project. In both tracks, the exit requirement is a Portfolio review.

Requirements for Master of Arts (MA)
Like the MTS degree, the MA is a stand-alone degree, which we also award “on the road” to the Ph.D. degree. To earn the MA, students complete thirty credit hours of course work, which include foundation courses and free electives. Students may develop a concentration in one area of study. The exit requirement is a Portfolio review.

Requirements for Master in Ministry and Theology (MMT)
The MMT is a stand-alone degree. Students complete forty-eight credit hours of course work, which include foundation courses, area courses, courses in pastoral ministry, and a practicum. The exit requirement is a Portfolio review.
CERTIFICATES
The department offers three Certificate programs:

i. Theological Studies
ii. Interdisciplinary Theological Inquiry
iii. Pastoral Ministry

Each program permits students to develop concentrations and tailor courses to specific needs and professional objectives. Courses may be applied toward any of our master’s degrees.

JOINT PROGRAMS
These programs offer the opportunity to combine the MA in Theology with a departmental or extra-departmental Certificate. All programs can be completed on a full-time or a part-time basis.

i. Master of Arts with Certificate in History
ii. Master of Arts with Certificate in Education
iii. Master of Arts with Certificate in Non-Profit Management
iv. Master of Arts with Certificate in Gender and Women’s Studies
v. Master of Arts with Certificate in Advanced Theological Studies

DUAL MASTER’S DEGREES
Dual degree programs provide alternate paths to Villanova degrees. They are especially designed for students who wish to complement their theological education with studies in related or different disciplines. We currently offer dual Master’s degree programs in Theology & History, Public Administration, Church Management, English, Political Science, and Education. Other individualized programs are possible.
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