The University reserves the right to change its admission, registration, and graduation requirements as necessary. The course offerings and requirements of the University of Notre Dame are continually under examination and revisions are expected. This Bulletin of Information is not a contract; it merely presents the offerings and requirements in effect at the time of publication and in no way guarantees that the offerings and requirements will remain the same. Every effort will be made to provide advance information of any changes.

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Fall Semester 2019

**August**
27: Classes begin; Mass—formal opening of school year

**September**
3: Last day for course changes

**October**
19: Mid-term break begins
28: Classes resume

**November**
1: Last day for course discontinuance; Application deadline for admission to the Graduate School for spring semester 2019
4: Dissertation and thesis formatting checks due
18: Registration for spring semester 2020 begins
25: Last day for master’s examinations and Ph.D. dissertation defenses for graduation in January 2019
27: Thanksgiving holiday begins

**December**
2: Classes resume; Last day for presenting completed theses and dissertations to the Graduate School for January 2020 graduation
12: Last class day
13: Reading days begin
16: Final examinations begin
23: All grades submitted through insideND by 3:45 p.m.

**January**
5: Official graduation date (no ceremony)

Spring Semester 2020

**January**
14: Classes begin
21: Last day for course changes

**February**
1: Last deadline for applying to the Graduate School for fall semester 2019 admission (check individual program deadlines at http://graduateschool.nd.edu)

**March**
2: Dissertation and thesis formatting checks due
7: Mid-term break begins
16: Classes resume
18: Registration for summer session 2020 begins
20: Last day for course discontinuance
30: Last day for master’s examinations and Ph.D. dissertation defenses for graduation in May 2020

**April**
6: Last day for presenting completed theses and dissertations to the Graduate School for May 2020 graduation
10: Easter holiday begins
14: Classes resume
15: Registration for fall semester 2020 begins
29: Last class day
30: Reading days begin

**May**
4: Final examinations begin
11: All grades submitted through insideND by 3:45 p.m.
16: Official graduation date and Graduate School Commencement Ceremony

Summer Session 2020

**June**
8: Dissertation and thesis formatting checks due
15: Classes begin
29: Last day for master’s examinations and Ph.D. dissertation defenses for graduation in August 2020

**July**
6: Last day for presenting completed theses and dissertations to the Graduate School for August 2020 graduation
24: Last class day

**August**
2: Official graduation date (no ceremony)
Graduate Studies Directory

Dean’s Office and Administration

Laura Carlson, Ph.D.
Vice President and Associate Provost, Dean of the Graduate School
Professor of Psychology
(574) 631-8052; lcarlson@nd.edu

- Voice of the Graduate School
- Innovation in graduate training
- Strategic planning and development
- Graduate program assessment
- Policy and program design

Christal Colbert
Dean’s Assistant
(574) 631-8052; ccolbert@nd.edu

- Officer Assistant to the Dean
- Calendaring Advisory Council (fall and spring meetings)
- Coordinate Provost committee meetings (Academic Council, ND Lead, PAC, UCWFS)

The Graduate School Executive Committee

Brian Flaherty
Program Director, Strategic Initiatives
(574) 631-2705; flaherty.27@nd.edu

- Strategic planning and projects
- Student funding administration
- External fellowship administration
- Fellowship stewardship
- Professional development
- Recruiting funds to programs

John Lubker, Ed.D.
Associate Dean for Academic Affairs
(574) 631-5778; jlubker1@nd.edu

- Graduate School ombudsperson
- Administration of graduate school policies, procedures, and appeals
- Oversight of graduate student progress
- Graduate student leadership development and training

Nyrée McDonald, Ph.D.
Associate Dean for Graduate Enrollment Management
(574) 631-8421; nmcdonal@nd.edu

- Graduate School recruitment
- Support departments and programs with their individual recruitment efforts and admissions
- Manage online application and recruitment system
- Student progress from matriculation through graduation

Demetra Schoenig
Director, Academic Enhancements
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- Convene and facilitate professional development
- Network in service of Notre Dame’s holistic graduate training model
- Provide oversight for the Grants and Fellowships Office, Postdoc Office, and events and communications functions
- Budget, human resources, financial policies, and operations manager
- Strategic initiatives for Provost Office

The Graduate Studies Leadership Team

The Graduate Studies Leadership Team is a collaborative group that includes both the dean and executive committee of the Graduate School, and the following collegiate associate deans:

Ted Beatty, Ph.D.
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Academic Enhancements
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Graphic Designer, Communications Specialist
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- Social media
- Graphic design
- Premium content development
- Design work for graduate programs

Mandy Madden Miller
Program Director, Professional Development
574-631-6192; amadden1@nd.edu
- Cultivate and lead the Professional Development Network
- Initiate and implement programming that develop students’ professional skills while supporting their well-being
- Collect data related to professional development initiatives

Dawn Rizek
Program Manager, Operations
(574) 631-1704; drizek@nd.edu
- Designs and executes signature academic ceremonies
- Orientation, Ethics Workshop, and Commencement
- Project management and planning
- CRM implementation and training

Grants and Fellowships
Team email: gradgrants@nd.edu

Samantha Lee, Ph.D.
Program Director
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- Representative for nationally competitive grant and fellowship programs

Kathryn Sawyer
Assistant Program Director
(574) 631-1713; ksawyer2@nd.edu
- Assist with external grant and fellowship programs
- Assist with grant and fellowship selection processes
- Assist students with locating, strategizing for, and winning grants and fellowships

Postdoctoral Scholars
Team email: postdocs@nd.edu

Valli Sarveswaran, Ph.D.
Associate Program Director
(574) 631-8109; vsarvesw@nd.edu
- Mentoring and development
- Career services
- Community development
- Policies and procedures for postdoctoral scholars

Diana Dickson
Program Coordinator
(574) 631-8208; ddickson@nd.edu
- Produce appointment letters for postdoctoral scholars and other non-faculty research appointments
- Assist with visa questions for arriving postdoctoral scholars
- Disseminate DS-2019s to appointees for obtaining the proper Visa
- Maintain institutional data on the postdoctoral population
- Facilitate communication between the Office for Postdoctoral Scholars and academic hiring departments

Ethical Leadership Training
Allan Loup, J.D.
Assistant Program Director, Ethics
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- Ethics program
- Responsible conduct of research
- Professional development
- Ethical leadership training

Mark Bourgeois
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- Ethics and Responsible Conduct of Research (RCR) workshop support
- Ethical Leaders in Stem and Leadership Advancing Socially Engaged Research (LASER) program support
- Social Responsibilities of Researchers (SRR) program implementation

Graduate Career Services
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Director
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- Graduate Career Services strategic leadership
- Campus stakeholder interface
- Employer and alumni relations and outreach
- Career and professional development

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- Liaison to the College of Science
- Career exploration and planning
- Developing career skills and capabilities
- Career programming and professional development
- Networking with alumni and employers
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- Career programming and professional development  
- Networking with alumni and employers

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- Liaison to professional master’s programs  
- Career exploration and planning  
- Developing career skills and capabilities  
- Career programming and professional development  
- Networking with alumni and employers

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- Career exploration and planning  
- Developing career skills and capabilities  
- Career programming and professional development  
- Networking with alumni and employers

Mellisa Crisan  
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Graduate Enrollment Management  
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Financial Analyst  
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- Steward financial awards: health insurance subsidies, tuition scholarships, NSF GRFP fellowships  
- Review/approve graduate stipends and hourly jobs; policy compliance  
- Reconcile graduate program budgets and provide ad hoc reporting  
- Administer Graduate School professional development awards cycle and budget  
- Administer tenure and tenure-track reappointment and promotion cycle (Provost Office)

Shari Hill Sweet  
Editor, Webmaster and Publications Manager  
(574) 631-7545; shill2@nd.edu  
- Doctoral dissertations and master’s theses — resources and formal submissions  
- Editor, annual policy updates  
- ProQuest/UMI liaison  
- Graduate School email groups  
- Access to OnBase, Slate (back-up)  
- Website maintenance

John Lowery, Ph.D.  
Recruitment Program Director  
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- Recruiting for College of Science, Engineering, Arts and Letters, and Keough School programs (Ph.D. Master’s), and Professional Master’s programs  
- Graduate Enrollment Management

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- Doctoral dissertations and master’s theses format reviews  
- Dissertation and thesis access requests  
- Dissertation and thesis submission materials processing  
- CurateND metadata maintenance

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- Graduate Enrollment Management

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- M-Z: Application processing and admission decisions  
- M-Z: Immigration documentation  
- M-Z: Creation of Live student records  
- Verification of all applicant data  
- Slate specialist  
- Slate: Manage user accounts  
- Slate: One-on-One Training for program assistants/coordinators

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Program Director, Academic Services  
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- Add/drops, course audits, and grade changes  
- Application to degree candidacy  
- E-forms  
- Graduation and degree audits  
- Leave of absence  
- Reports (Graduate School)  
- Transfer of credits
• Front desk receptionist for the Graduate School

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Mimi Beck
Program Director
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• Quality of life programming and advocacy
• Resource and service referrals
• Assessment and strategic planning for Graduate Student Life

Laurie Hesch
Administrative Assistant, Graduate Student Union
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• Coordinates GSU communications and finances
• Provides bookkeeping advice and assistance to all recognized graduate student clubs

Office of Military and Veterans Affairs

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Program Director
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• Making the Notre Dame experience robust, inclusive, and vibrant for military-connected students
• Achieving excellence in undergraduate, graduate, and professional education for military-connected students
• Enabling Notre Dame to lead an exemplary model of engagement in the military and veteran space

Megan Leis
Assistant Director
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• Making the Notre Dame experience robust, inclusive, and vibrant for military-connected students
University Leadership

President’s Leadership Council

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Vice President and Associate Provost for Innovation

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Vice President for Campus Safety and University Operations

John B. Swarbrick Jr.
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West Palm Beach, Florida                     Middleburg, Virginia

Notre Dame, Indiana                           New York, New York

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New York, New York                            Dallas, Texas

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Morton Grove, Illinois

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Wilkes-Barre, Pennsylvania

Mr. Joseph I. O’Neill III                      
Midland, Texas

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*Notre Dame, Indiana*

Mr. William K. Warren Jr.  
*Tulsa, Oklahoma*

Mr. Robert J. Welsh  
*Chesterton, Indiana*

---

**Notice of Non-Discrimination**

The University of Notre Dame does not discriminate on the basis of race, color, national or ethnic origin, sex, disability, veteran status, genetic information, or age in the administration of any of its educational programs, admissions policies, scholarship and loan programs, athletic and other school-administered programs, or in employment.

The University has designated the Director of its Office of Institutional Equity to handle all inquiries regarding its efforts to comply with and carry out its responsibilities under Title IX and under Section 504 of the Rehabilitation Act of 1973. The Title IX and Section 504 coordinator may be contacted at [equity@nd.edu](mailto:equality@nd.edu) or as follows:

Karrah Miller, J.D.  
Director, Office of Institutional Equity  
414 Grace Hall  
University of Notre Dame  
Notre Dame, IN 46556  
(574) 631-0444

---

**Policies on Harassment**

Sexual and discriminatory harassment and harassment in general are prohibited by the University. Definitions and policies regarding all forms of harassment and discrimination, as well as confidential resources for help, and University initiatives related to diversity and inclusion, are posted on the Office of Institutional Equity website at [http://equity.nd.edu](http://equity.nd.edu).

It is the student’s responsibility to be aware of these expectations and conduct themselves accordingly as members of the Notre Dame community.

Questions regarding the policies and initiatives overseen by the Office of Institutional Equity may be directed to [equity@nd.edu](mailto:equality@nd.edu).

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**Campus Security and Fire Safety**

The security of all members of the campus community is of paramount concern to the University of Notre Dame. Each year the University publishes an annual report outlining security and safety information and crime statistics for campus. This brochure provides suggestions regarding crime prevention strategies and important policy information about emergency procedures, reporting of crimes, law enforcement services on campus, and information about support services for victims of sexual assault. The brochure also contains information about the University’s policy on alcohol and other drugs, the SafeBouND program and campus shuttle service. You may view the document on the web at: [http://ndsp.nd.edu](http://ndsp.nd.edu). A printed copy of this brochure is available by sending an email request to [ndsp@nd.edu](mailto:ndsp@nd.edu) or by writing to:

Office of the Chief of Police  
University Security Police  
204 Hammes Mowbray Hall  
Notre Dame, IN 46556

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**The Spirit of Inclusion at Notre Dame**

“Strangers and sojourners no longer.”  
(Ephesians 2:19)

The University of Notre Dame strives for a spirit of inclusion among the members of this community for distinct reasons articulated in our Christian tradition. We prize the uniqueness of all persons as God’s creatures. We welcome all people, regardless of color, gender, religion, ethnicity, sexual orientation, social or economic class, and nationality, for example, precisely because of Christ’s calling to treat others as we desire to be treated. We value gay and lesbian members of this community as we value all members of this community. We condemn harassment of any kind, and University policies proscribe it. We consciously create an environment of mutual respect, hospitality and warmth in which none are strangers and all may flourish.

One of the essential tests of social justice within any Christian community is its abiding spirit of inclusion. Scriptural accounts of Jesus provide a constant witness of this inclusiveness. Jesus sought out and welcomed all people into the Kingdom of God—the gentile as well as the Jew, women as well as men, the poor as well as the wealthy, the slave as well as the free, the infirm as well as the healthy. The social teachings of the Catholic Church promote a society founded on justice and love, in which all persons possess inherent dignity as children.
of God. The individual and collective experiences of Christians have also provided strong warrants for the inclusion of all persons of good will in their communal living. Christians have found their life together enriched by the different qualities of their many members, and they have sought to increase this richness by welcoming others who bring additional gifts, talents and backgrounds to the community.

The spirit of inclusion at Notre Dame flows from our character as a community of scholarship, teaching, learning and service founded upon Jesus Christ. As the Word through whom all things were made, Christ is the source of the order of all creation and of the moral law which is written in our hearts. As the incarnate Word, Christ taught the law of love of God and sent the Holy Spirit that we might live lives of love and receive the gift of eternal life. For Notre Dame, Christ is the law by which all other laws are to be judged. As a Catholic institution of higher learning, in the governance of our common life we look to the teaching of Christ, which is proclaimed in Sacred Scripture and tradition, authoritatively interpreted by Church teaching, articulated in normative understandings of the human person, and continually deepened by the wisdom born of inquiry and experience. The rich heritage of the Catholic faith informs and transforms our search for truth and our understanding of contemporary challenges in higher education.

*This statement was adopted by the officers of the University on August 27, 1997, in conjunction with an Open Letter to the Notre Dame community.*
Notre Dame is the world’s pre-eminent Catholic research university, an institution with a superb faculty, top graduate programs, and a commitment to meaningful research, teaching and service — all of which combine to offer our graduate students an integrated and ever-widening set of resources that contribute to their formation as the next generation of academic and professional leaders. Students are supported on their path to success through strong faculty mentorship within their programs, a thriving interdisciplinary community of student peers, an advanced professional development program, and network of offices and personnel that focus on graduate student life outside of the classroom and laboratory.

The Graduate School: Then and Now

Located north of the city of South Bend, Indiana, the University of Notre Dame was founded in 1842 by the Rev. Edward F. Sorin, a priest of the Congregation of Holy Cross. The state of Indiana chartered the University by a special act of the legislature. Combining the style of the French “college” and the seminary where Father Sorin and his congregational fellows studied for the priesthood, Notre Dame began as both a secondary school and a four-year college offering the baccalaureate degree in the liberal arts. It soon adapted to the style and structure of the typical nineteenth-century American university, introducing a science curriculum in 1865, the first American Catholic law school in 1869, an engineering college in 1873, the beginnings of a distinctive graduate program in the early 1900s, and a college of business in 1921. The North Central Association first accredited the University in 1913. Notre Dame first began to award advanced degrees in 1918; the Graduate School was instituted in 1944.

The mission of the Graduate School is to promote a graduate community that positions all scholars for success. We believe in a holistic training model, and provide services and opportunities that support the development of the mind, the body, and the spirit, with the goal of producing scholars who will serve as forces for good in the world. The Graduate School is led by the Dean of the Graduate School, who also holds the title of Vice President and Associate Provost. A team of Associate Deans and a dedicated staff work in partnership with the colleges and departments to administer the programs and resources to assist graduate students to achieve their highest potential. The Graduate School has four divisions — engineering, humanities, science, and social sciences — as well as the Keough School of Global Affairs, with over 30 departments and programs that offer master’s or doctoral degrees. There are over 2,500 graduate students, from all fifty states and over 100 nations, and more than 150 postdoctoral fellows at Notre Dame.

Graduate Student Union

Through a council of elected officers, appointed committee chairs and representatives from the departments of its constituent colleges, the Graduate Student Union (GSU) provides a variety of services and represents its membership on several University councils and committees. In particular, it promotes excellence in graduate education, advocates for the highest quality of life for graduate students, subsidizes graduate student travel to present original research, and maintains a liaison with the administration regarding pertinent issues. The GSU maintains a website with current events and resources for graduate students, provides listserv updates, works with the Graduate School to conduct a graduate student orientation program, and offers awards for outstanding teaching assistants and graduate instructors, in addition to providing various social, cultural, and intellectual activities. The GSU is the graduate students’ official liaison with the University administration and the Office of Student Activities.

The Graduate Student Union finances its operations and Conference Presentation Grant program through contributions from the Graduate School and a yearly mandatory activity fee paid by students. Graduate students are eligible to apply for the competitive grant if...
they: (1) are enrolled in the Graduate School, and (2) pay the annual fee.

The Graduate Student Union maintains offices at W206A Duncan Student Center.

Email: lhesch@nd.edu
Telephone: (574) 631-6963
Web: http://gsu.nd.edu

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### Graduate Degrees Granted

The Graduate School awards master’s and doctoral degrees in the divisions of Engineering, Humanities, Science, and Social Sciences.

Master of Arts in the following fields:
- Anthropology
- Art History, Design, and Studio Art
- Classics
- Early Christian Studies
- Economics
- English
- French Literature
- History
- History and Philosophy of Science
- Italian Studies
- Peace Studies
- Philosophy
- Political Science
- Psychology
- Romance Languages and Literatures
- Sociology
- Spanish Literature
- Theology
- Master of Divinity
- Master of Engineering (only with J.D.)
- Master of Fine Arts in the following fields:
  - Creative Writing
  - Design
  - Studio Art
- Master of Medieval Studies
- Master of Sacred Music
- Master of Science in Aerospace Engineering
- Master of Science in Bioengineering

Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Science and Engineering
- Master of Science in Electrical Engineering
- Master of Science in Environmental Engineering
- Master of Science in Interdisciplinary Mathematics
- Master of Science in Mechanical Engineering
- Master of Science in the following fields:
  - Applied and Computational Mathematics and Statistics
  - Biochemistry
  - Biological Sciences
  - Biophysics
  - Chemistry
  - Earth Sciences
  - Mathematics
  - Physics
- Master of Theological Studies
- Doctor of Musical Arts
- Doctor of Philosophy in the following fields:
  - Aerospace and Mechanical Engineering
  - Anthropology
  - Applied and Computational Mathematics and Statistics
  - Biochemistry
  - Bioengineering
  - Biological Sciences
  - Biophysics
  - Chemical Engineering
  - Chemistry
  - Civil and Environmental Engineering and Earth Sciences
  - Computer Science and Engineering
  - Economics
  - Electrical Engineering
  - English
  - History
  - History and Philosophy of Science
  - Integrated Biomedical Sciences
  - Italian Literature
  - Mathematics

Professional Master’s Degrees

Professional master’s degrees granted through the Graduate School include:

- Master of Arts in Educational Leadership — limited to students in the Alliance for Catholic Education (ACE) program
- Master of Education— limited to students in the Alliance for Catholic Education (ACE) program
- Master of Global Affairs
- Master of Science in the following fields:
  - Applied and Computational Mathematics and Statistics
  - Data Science
  - Engineering, Science, and Technology Entrepreneurship
  - Global Health

Graduate Minors

A graduate minor is defined by the Graduate School as a guided academic credit-bearing course of study that is designed to supplement work in a primary degree program with an additional substantial expertise. It is expected that the course of study will be recognized by other institutions as conferring a level of valued expertise.

Such minor programs are available only to graduate students currently enrolled in a graduate program at Notre Dame. The minor will not be awarded until all the requirements for the graduate degree have been met.

Current minors in the Graduate School include:
Areas and Fields of Study

The University of Notre Dame offers graduate programs leading to master's and/or doctoral degrees in the following areas and fields of study.

Key:
* Master's programs only
+ Master's program and M.F.A. in studio art and design
++ M.F.A. in creative writing

Aerospace and Mechanical Engineering

- Aerospace Sciences
- Biomechanics, Biomaterials, and Bioengineering
- Computational Engineering and Mechanics
- Control Systems
- Flow Physics and Control
- Fluid Mechanics
- Manufacturing Science
- Materials Science
- Mechanical Systems and Design
- Nanotechnology
- Orthopedics and Biomedical Devices
- Robotics
- Solid Mechanics
- Thermal and Energy Sciences
- Tissue Engineering

Anthropology

- Anthropological Archaeology
- Biological Anthropology
- Linguistic Anthropology
- Social-Cultural Anthropology

Applied and Computational Mathematics and Statistics

- Applied and Computational Mathematics
- Applied Partial Differential Equations
- Applied Statistics
- Bayesian Modeling
- Biostatistics
- Computational and Mathematical Biology
- Computational Finance
- Computational Mathematics
- Computational Neuroscience
- Dynamical Systems
- Mathematical Modeling
- Multiscale Modeling
- Nonlinear Dynamics
- Nonlinear Partial Differential Equations
- Numerical Algebraic Geometry
- Numerical Analysis
- Numerical Solution of Partial Differential Equations

Art, Art History, and Design

- Studio Art
  - Ceramics
  - Painting
  - Photography
  - Printmaking
  - Sculpture
- Art History
  - American
  - Ancient
  - Contemporary
  - Medieval
  - Modern European
  - Renaissance and Baroque
- Design
  - Graphic Design
  - Industrial Design

Biological Sciences

- Anatomy and Physiology
- Cancer Biology

Cellular and Molecular Biology
- Development and Regeneration
- Ecology and Environmental Biology
- Entomology
- Environmental Biology
- Environmental Microbiology
- Evolutionary Biology
- Functional Morphology
- Genetics and Bioinformatics
- Genomics
- Microbiology and Immunology
- Neuroscience and Behavior

Biophysics

- Biosciences
- Computational and Statistical Modeling
- Physics

Chemical and Biomolecular Engineering

- Batteries and Fuel Cells
- Bioengineering
- Catalysis and Reaction Engineering
- Cellular and Tissue Engineering
- Drug Delivery
- Ionic Liquids
- Materials
- Medical Diagnostics
- Membranes
- Microfluidics and Nanofluidics
- Molecular Modeling
- Multiphase Flow
- Nanomaterials and Nanotechnology
- Optimization
- Polymers
- Process Systems Engineering
- Simulation and Theory
- Soft Matter
- Sustainable Energy

Chemistry and Biochemistry

- Analytical Chemistry
- Biochemistry
- Biophysics
- Drug Design and Discovery
- Energy Research
- Environmental Chemistry
- Inorganic Chemistry
- Materials Chemistry
The Graduate School

Molecular Medicine
Molecular and Cell Biology
Nanotechnology
Organic Chemistry
Physical/Analytical Chemistry
Radiation Chemistry
Structural Biology
Surface Science
Synthetic Chemistry
Theoretical and Computational Chemistry

Civil and Environmental Engineering and Earth Sciences

Actinide Material Science
Aquatic Chemistry
Bioengineering
Biological Treatment of Hazardous Waste
Coastal Engineering
Computational Fluid Mechanics
Climate Variability and Change
Development Studies
Dynamics of Offshore Structures
Earthquake Engineering
Environmental Biotechnology
Environmental Engineering
Environmental Fluid Dynamics
Environmental Microbiology
Environmental Mineralogy
Environmental Nanoscience and Technology
Environmental Sensors
Finite Element Modeling
Fire Effects on Structures
Fluid Mechanics
Groundwater and Surface Water Hydrology
Geomicrobiology
Health and Societal Implications of Nanotechnology
High and Low Temperature Geochemistry
Kinetic Structures
Lunar Petrology
Mantle Petrology
Materials Characterization and Durability
Metabolic Engineering
Multiphase Flows
Nanomaterial Metrology
Natural and Man-Made Hazard Reduction
Nuclear Forensics
Progressive Collapse of Structural Systems
Remote Sensing
Renewable Energy
Structural Dynamics
Structural Engineering
Structural Health Monitoring
Structural Mechanics and Design
Structural Reliability
Sustainability Engineering
Tall Buildings and Long-Span Bridges
Water and Wastewater Treatment
Water Resources Management
Wind Engineering

Classics*

Classical Studies
Early Christian Studies

Computer Science and Engineering

AI and Machine Learning
Algorithms and Theory
Assistive Technology
Biometrics
Computer Architecture
Computer Vision
Digital Humanities
Human-Computer Interaction
Medical Imaging
Nanotechnology
Natural Language Processing
Network and Data Science
Scientific and High Performance Computing
Security, Privacy, and Cryptography
Software Engineering, Visualization and Visual Analytics
Wireless, Mobile, and Embedded Systems

Electrical Engineering

Electronic Material and Devices
High-Speed Circuits and Antennas
RF to THz Electronic Devices and Systems
Nanoelectronic Devices and Systems
Optoelectronics and Photonics
Quantum Computing
Biophotonics and Biomedical Devices
Intelligent Transportation Systems
Networked Control Systems
Sensing, Detection & Estimation, and Machine Learning
Error-Control Coding, Information Theory
Digital Signal Processing, Image Processing, Computer Vision
Wireless Communication and Networks
Robotics and Autonomous Systems

Engineering, Science, and Technology Entrepreneurship*

English

African American
Creative Writing++
Drama
Early American (to 1865)
Irish Studies
Latino/a Studies
Literary Theory
Middle American (from the Civil War to 1930)
Modern British
Novel
Old and Middle English
Poetry
Post 1930 American Literature
Prose Fiction
Renaissance

Economics

Development Economics
Environmental Economics
Industrial Organization
International Economics
Labor Economics
Monetary and Macroeconomics
Public Economics

Education*

Educational Leadership
Teaching

Monetary and Macroeconomics
Public Economics

Education*

Educational Leadership
Teaching

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Sensing, Detection & Estimation, and Machine Learning
Error-Control Coding, Information Theory
Digital Signal Processing, Image Processing, Computer Vision
Wireless Communication and Networks
Robotics and Autonomous Systems

Engineering, Science, and Technology Entrepreneurship*

English
Restoration and 18th Century
Romantic and Victorian

**Global Affairs**
- International Peace Studies
- Sustainable Development
- Global Affairs + [Specialization]

**Global Health**

**History**
- Latin American History
- Medieval History
- Modern European History
- United States History

**History and Philosophy of Science**
- Analytic Philosophy of Science and Epistemology
- History of Astronomy and Physics
- History and Philosophy of Biology 1700 to 1980
- History and Philosophy of Economics
- History and Philosophy of Mathematics
- History of the Philosophy of Science
- Intellectual History of Science 1600 to 1950
- Medieval Natural Philosophy and Medicine
- Philosophy of Contemporary Physics
- Philosophy of Mind and Neuroscience
- Science and Literature
- Scientific Revolution Studies
- Social History of Medicine and Technology

**Integrated Biomedical Sciences**
- Biophysics and Structural Biology
- Cancer Biology
- Chemical Biology and Molecular Pharmacology
- Computational Biology and Bioinformatics
- Genomics and Proteomics
- Immunology and Infectious Disease
- Cellular and Molecular Biology

**Neuroscience**

**Italian**
- Medieval Literature
- Renaissance Studies
- 18th- and 19th-Century Literature and Culture
- Modern Literature and Culture
- Religion and Literature
- Cartography and Literature; Italian Cinema

**Literature**
- Classics
- East Asian Studies
- French
- German
- Irish Studies
(See also Italian and Spanish)

**Mathematics**
- Algebra/Algebraic Geometry
- Complex Analysis
- Differential Geometry
- Discrete Mathematics
- Logic
- Mathematical Physics
- Partial Differential Equations
- Topology

**Medieval Studies**
- Art History
- History
- Language and Literatures
- Manuscript Studies
- Music
- Philosophy
- Theology

**Musical Arts**
- See Sacred Music

**Peace Studies**
- Peace Studies and Anthropology
- Peace Studies and History
- Peace Studies and Political Science
- Peace Studies and Psychology
- Peace Studies and Sociology
- Peace Studies and Theology

**Philosophy**
- Ancient Philosophy
- Contemporary European Philosophy
- Epistemology
- Ethics
- Logic
- Medieval Philosophy
- Metaphysics
- Modern Philosophy
- Philosophy of Language
- Philosophy of Mathematics
- Philosophy of Mind
- Philosophy of Religion
- Philosophy of Science
- Political Philosophy

**Physics**
- Astrophysics
- Atomic Physics
- Biophysics
- Condensed Matter Physics
- Elementary Particle Physics
- Network Physics
- Nuclear Physics
- Statistical Physics

**Political Science**
- American Politics
- Comparative Politics
- Constitutional Studies
- International Relations
- Methodology
- Political Theory

**Psychology**
- Cognition, Brain, and Behavior
- Clinical Psychology
- Developmental Psychology
- Quantitative Psychology

**Romance Languages and Literatures**
- French and Francophone Studies—Middle Ages, Renaissance, 17th-century Classical, 18th-century Enlightenment, 19th Century, 20th Century
- Iberian and Latin American Studies—Medieval, Golden Age, Colonial Spanish-American, Modern Spanish Peninsular,
Academic Regulations

Please note:

The following information represents the minimum standards established by the Graduate School. Individual departments may require higher standards. Students are expected to be fully cognizant of their department's requirements.

No exceptions to the following policies and procedures will be valid without the formal written approval of the Graduate School.

Admission to the Graduate School

Degree Applicants

Applicants for admission to a degree program in the Graduate School must hold a bachelor's degree or its equivalent from an accredited American college or university or from a foreign institution of acceptable standing and accredited by the governing educational body of the country by the time of graduate matriculation. If at that time an admitted applicant does not hold a bachelor's degree, the Graduate School admission is void. The applicant should have earned at least a B average (3.0 on a 4.0 G.P.A. scale) in her or his undergraduate major courses and should meet the level of academic achievement that implies a developed ability for advanced study and independent scholarship.

An applicant may seek admission to degree-seeking status in either a master's or doctoral program, or to non-degree status.

Admission to a graduate degree program is not equivalent to admission to candidacy for the degree. It should also be noted that admission to the master's program does not mean admission to the associated doctoral program upon completion of the master's program. A separate decision is required for admission into the doctoral program.

Admission to Multiple Degrees

Students seeking admission to more than one program (whether they intend to enroll in only one or both programs) must submit separate applications for each program and be accepted by each. Admission to one program does not guarantee admission to another program. Applicants may seek admission to two programs prior to enrolling, or apply to an additional program after they have begun an initial program. It is possible for a student to enroll in two master's degree programs, a master's degree program and a Ph.D., or a program in the Graduate School and a professional degree in one of the other colleges or schools in the University. The Graduate School does not allow students to enroll in two Notre Dame doctoral programs simultaneously. The Graduate School will consider only applicants whose past academic performance indicates the potential for success in each of the programs. See “Transfer Credits” on page 26 for further details.

All funding arrangements and degree requirements must be approved in advance by the student's advisor (if he or she has one), the respective program administrators, and the Graduate School.
An applicant who seeks admission to more than one master’s degree program in the Graduate School in order to earn two degrees, or an applicant who seeks admission to a degree program in the Graduate School concurrently with a degree program in another school in the University (i.e., Law School, the School of Architecture, or Mendoza College of Business) must submit a separate and complete application for each program. The applicant must also be accepted by each of the cooperating departments. The Graduate School will consider only applicants whose past academic performance indicates the potential for success in each of the programs. In consultation with the appropriate advisors from each unit, the applicant will select a plan of study acceptable to all units. The Graduate School must approve the written plan of study before the student may begin the program. See “Transfer Credits” on page 26 for further details.

Admission to Joint Degree Programs

It is possible for a student to pursue a program of study combining two programs and leading to a joint degree. An applicant who seeks to earn a joint degree, either master’s or Ph.D., must submit a separate and complete application to each program and be accepted by both. The relevant departments must agree upon a plan of study defining what will constitute the joint degree program, and the approved written plan must be on file with the Graduate School before the student may begin the program.

Application Requirements

An applicant for admission to a degree program must complete all of the following:

1. Complete and electronically submit the online application
2. Submit a statement of intent through the online application system
3. Submit a curriculum vitae or resumé through the online application system
4. Arrange for three (3) letters of recommendation to be submitted through the online recommendation system associated with the online application
5. Submit unofficial transcripts from each post-secondary institution through the online application
6. Submit writing samples, if required by the department, through the online application system
7. Submit the application fee by credit card, check, or money order using the payment system associated with the online application system
8. Arrange for the submission of official Graduate Record Examination (GRE) General Test scores
9. Arrange for the submission of official GRE Subject Test scores if required by the program
10. Arrange for submission of official Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) scores if the applicant’s native language or language of college instruction is not English

The online application may be accessed through the Graduate School’s website at http://graduateschool.nd.edu. Students who have preliminary test scores are encouraged to upload them to the application to expedite the review process.

Students seeking admission to more than one program must submit separate applications for each program.

The application fee must accompany the application. This fee is nonrefundable, and may be paid by check, money order, or credit card (see online application for the current application fee).

Application deadlines range from December 1 to February 1 for admission to the following fall semester. Applicants may visit the Graduate School’s website to determine the deadline for individual programs. Unless otherwise specified, the application deadline for spring admission is November 1, though some departments have earlier deadlines. Applicants may visit the Graduate School’s website to determine the deadline for individual programs. It should be noted that only a few departments offer spring admission. Therefore, applicants who wish to begin in the spring are advised to consult the department prior to submitting an application.

Beyond these Graduate School admission requirements for all graduate departments and programs, particular programs may require personal interviews and/or submission of special materials, such as portfolios, a supplemental department application, an autobiographical statement, etc. Applicants should consult the individual department or program to learn about additional requirements and submission procedures.

The Graduate Record Examination (GRE) is offered at sites in the United States and abroad. The annual schedules and other information about the GRE can be obtained online at http://www.gre.org or from Educational Test-
Non-Degree Applicants

An applicant for admission to a non-degree program must complete all of the following:

1. Complete and electronically submit the online application
2. Submit a statement of intent through the online application system
3. Submit a curriculum vitae or résumé through the online application system
4. Submit unofficial transcripts from each post-secondary institution through the online application system
5. Submit the application fee by credit card, check, or money order using the payment system associated with the online application system

A non-degree applicant may seek admission as a departmental non-degree student or as an unclassified student in the Graduate School. A graduate student who is dismissed from his or her program of study for academic reasons cannot be admitted as a non-degree student.

A departmental non-degree student is one who has been admitted to a program but does not seek an advanced degree from the University. An applicant with degree intent who lacks one or more admission requirements may be admitted temporarily to this non-degree status at the discretion of the program and with the approval of the associate dean of recruitment and admissions. The student may register for one to 15 credit hours in any graduate courses for which he or she meets the course prerequisites. However, no student initially admitted to non-degree status will be admitted to degree status until all admission requirements have been satisfied. No more than 12 credit hours earned by a student while in non-degree status may be counted toward a degree program. Admission as a departmental non-degree student does not guarantee later admission as a degree-seeking student.

An unclassified student is one who is admitted to the Graduate School in a non-degree status, but who is not a member of a particular department or program. Such a student may, with the approval of the Graduate School, take courses in any graduate program, subject to approval by the program. This category is usually open to non-degree-seeking students who wish to take courses in more than one program or students who have completed their degree programs but wish to continue at the University with graduate student status. No more than 12 credit hours earned by a student while in non-degree status may be counted toward a degree program. Admission as an unclassified non-degree student does not guarantee later admission as a degree-seeking student.

Visiting Students, Research Visitors, and Auditors

A visiting student is normally a degree-seeking student at another university who enrolls for credit in select courses at Notre Dame. Unless otherwise arranged by the home university and Notre Dame, the visiting student is considered a non-degree student at Notre Dame and follows the same application and enrollment procedures as a non-degree student.

A research visitor is normally a degree-seeking student in another university who comes to Notre Dame to conduct research with a faculty member, but does not register or enroll in any courses at Notre Dame. The researcher is not a student at Notre Dame, and is therefore not required to apply to the Graduate School for admission. The appointment process is completed at the request of the program in which the supervising faculty member is appointed. Research visitors are not eligible for benefits.

An auditor is a non-degree student who meets the course prerequisites but receives no academic credit. With the permission of the instructor and the program chair, a degree-seeking student may also audit courses. Audited courses may be recorded on a student’s permanent record only if the student submits the proper request form and if he or she attends the course throughout the entire semester. A recorded audit is graded V. Incomplete audits are not recorded. The audit grade of V cannot be changed to a grade with credit after the sixth class day.
In the academic year, full-time graduate students may audit courses without charge. Part-time graduate students who audit courses will be charged the normal audit fee of one-half the current credit hour fee.

In the summer session, there is no free audited course. Any course taken or audited in the summer session will be charged the full price.

Acceptance

Official acceptance to programs in the Graduate School is granted only by the Graduate School. Applicants will be informed officially of the decision on their application by the Graduate School, through the online application system.

Applicants who intend to accept offers of admission are required to confirm their acceptance by completing the acceptance/declination of offer form through the online application system.

Council of Graduate Schools Policy on Accepted Offers of Admission

In accordance with a resolution passed by the Council of Graduate Schools in the United States, the following policy is in effect:

By accepting an offer of financial aid (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year, the enrolled or prospective graduate student completes an agreement that both the student and graduate school expect to honor. When a student accepts an offer before April 15 and subsequently desires to withdraw, the student may submit a written resignation for the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made.

Similarly, an offer made by an institution after April 15 is conditional on presentation by the student of a written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to this resolution that a copy of the resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer.

Registration

Enrollment in the University

All degree and non-degree graduate students must both register and complete the ND Roll Call process each semester during the dates and times announced by the University Registrar. Any admitted student who fails to register and complete the ND Roll Call process for one semester or more must seek re-instatement from the department and then from the Graduate School upon return.

Assignment of Credit in the Graduate School

The Graduate School adheres to the same principles set forth in the Undergraduate Academic Code governing the award of credit for coursework.

A student may receive credit only for classes for which the student is duly registered.

Credits for all courses are reported in “semester hours.” A semester hour of credit represents approximately 750 minutes of classroom instruction, which is equal to one 50-minute class period per week or its equivalent throughout a fifteen-week semester (1 x 50 x 15 = 750), plus a minimum of two hours of out of class student work per week or its equivalent throughout a fifteen-week semester. A semester hour of credit for laboratory, drafting, or studio work represents approximately double the time required for a semester hour of credit for classroom instruction.

Full-Time and Part-Time Status

A full-time student is one who registers for at least nine credit hours per semester. All degree-seeking students are expected to maintain full-time status and to devote full time to graduate study. No degree student may be employed, on or off campus, without the express permission of his or her program and the Graduate School.

A non-degree student must register for at least nine credit hours per semester, or six in the summer session, to claim full-time status.

A student who registers for less than nine credit hours per semester will be considered part-time.

During the academic year, students who are enrolled in summer-concentrated degree programs with year-round training (programs in which a predominance of credit hours are taken during the summer term) are considered full-time if they register for a program-required course in the fall or spring semester.

Residency and Non-Residency Status

Residency status is determined by a student’s continual presence or non-presence on campus. If a student is on campus a majority of the days of a week or a majority of weeks per month, he or she will be considered in residence. If a student is not present on campus in this fashion, he or she will be considered a non-resident student. With the exception of library privileges, a student classified as a non-resident cannot use University services, such as meal plans, student housing, and athletic facilities. Resident status is initiated by the student when register-
ing and verified by their program of study.

Continuous Registration

To maintain their student status, all students must satisfy the continuous registration requirement by both registering for a graduate-level course relevant to the student’s program and completing the ND Roll Call process. A student who is pursuing degrees in the Graduate School and in another school in the University concurrently meets the continuous enrollment requirement by registering in either program. Any exception to this rule, including a leave of absence, must be approved by the Graduate School.

Degree students who have completed the coursework requirement for their degree must register for at least nine credit hours per semester, including the final semester in which they receive their degree. These credit hours should consist of either resident or non-resident thesis or dissertation research within their department. Students registered for nine credit hours may be considered full-time students whether or not they are in residence. Students not in residence and taking nine credit hours pursuant to continuous enrollment requirements are charged a special reduced registration fee.

Summer Registration Requirements

Continuing students, i.e., degree-seeking students who are eligible to continue their studies in the fall semester, who are not receiving an academic stipend during the summer months may have access to University facilities and services from May through August without registering for academic credit or completing the ND Roll Call process in the summer session. Students who are enrolled full-time during the academic year are considered full-time in the summer.

Incoming students who are full-time admits, but choose to start in the summer term, are considered full-time students in the summer with any registration, including zero credits. Graduate students receiving a summer stipend and conducting independent research must register for their program’s zero-credit “Independent Summer Research” section. Registering for this course will ensure proper classification for tax purposes. Only those students both actively engaged in research and receiving a stipend are eligible for this course. The sections of this course will be coded to run through the entire summer term in order to align with each of the summer pay periods.

Semester of Graduation

Degree students must register and complete the ND Roll Call process during the semester in which they plan to graduate. Students graduating in the fall or spring semester must register for nine credits; students graduating in the summer session may register for zero credits.

Maximal Registration

During each semester of the academic year, a graduate student should not register for more than 15 credit hours of graduate courses, i.e., 60000 through 90000-level courses.

In the summer session, a graduate student should not register for more than 10 credit hours.

Audited courses not taken for a grade do not count toward the maximal credit hour limit.

Courses

Course Numbers

Courses numbered 60000 and above are typically taken by graduate students. Qualified advanced undergraduates may be admitted to these classes with the permission of the instructor and the approval of the chair.

Courses numbered 70000 and above are advanced graduate courses open only to students who have completed the prerequisites.

It is the expectation of the Graduate School that all full-time graduate students enroll in graduate-level coursework. Therefore, full-time students are expected to register for at least 3 hours of credit at the 60000 level or higher every semester that they are enrolled, except with the permission of the associate dean for academic affairs in the Graduate School.

The advanced undergraduate courses numbered 40000 – 59999 may be taken to satisfy up to six hours of graduate credit requirements. Grades in these courses will count towards the student’s G.P.A. Programs may place additional constraints on the use of 40000 – 59999 level courses to meet their degree requirements.

For purposes of progress within a graduate department or program of study or admission to degree candidacy, no graduate credit is allowed for courses below the 40000 level.

Add/Drop Policy

A student may add courses through the first six class days of the semester. A student may add courses after this time only on the recommendation of the program and with the approval of the Graduate School.

A student may drop courses at his or her discretion through the first six class
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days of the fall or spring semester. To drop a course after this period and up to the last day for course discontinuance (see the Graduate School calendar for the exact date), requires the approval of the chair or the director of graduate studies of the program offering the course, the student's advisor, and the Graduate School.

A course may be dropped after the last day for course discontinuance only in cases of serious physical or mental illness incurred by the student or an immediate family member of that student. Courses dropped after this period will be posted on the student's permanent record with the grade of W.

If the student is registered for 12 or more credits, a course taken for credit can be changed to an audited course until the end of the sixth class day. An audit request form must be submitted to make this change. Only in cases of serious physical or mental illness can a course be changed from credit to audit after the deadline, and only until the end of the term. No changes can be made once a semester has been completed.

Grades

Listed below are graduate grades and the corresponding number of quality points per credit hour. It is the expectation of the Graduate School that all courses taken at the graduate level will be graded by the level of the course, not by the status of the enrolled student.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points/Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>1.667</td>
</tr>
<tr>
<td>D</td>
<td>1.000</td>
</tr>
<tr>
<td>F</td>
<td>0.000</td>
</tr>
<tr>
<td>I</td>
<td>0.000 (until Incomplete is removed)</td>
</tr>
<tr>
<td>NR</td>
<td>Not reported</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>V</td>
<td>Auditor</td>
</tr>
<tr>
<td>W</td>
<td>Discontinued with permission</td>
</tr>
</tbody>
</table>

Grades of C- and D are awarded in the Graduate School and are used to calculate both semester and cumulative G.P.A.; however, they will not be accepted for completion of graduate degree requirements, specific required coursework, and/or total credit hours for completion of coursework. If a student receives lower than a grade of C in a required course, he or she must either retake the same course or its equivalent as determined by the program to fulfill the degree requirement.

Under exceptional circumstances, a student receives the temporary grade of I when he or she has not completed the requirements for a 60000 or higher-level graduate course within the semester or summer session. No grade of I can be given for courses below the 60000 level or to graduating students in the final semester or final summer session of a terminal degree program.

The grades of S and U (Satisfactory and Unsatisfactory) are used in courses without semester credit hours, as well as in research courses, departmental seminars, colloquia, workshops, directed studies, field education, and skills courses. These courses, if given the grade of S, do figure in a student's earned semester credit-hour total but do not figure in the computation of the G.P.A. No credit is given for a grade of U.

The grade of V (Auditor) does not have quality-points attached to it. It is the only grade available to the registered auditor. The audit must be requested before the sixth class day of the semester. The audited class is made part of the student's permanent record, and the auditor should attend the course throughout the entire semester. The grade of V cannot be changed to a credit-earning grade. Normally, graduate students are limited to auditing a maximum of two courses per semester.

The grade of W (discontinued with permission) is given for a course that a student is allowed to drop after the mid semester point. Approval of the grade of W is required by the associate dean for academic affairs in the Graduate School.

Incomplete Coursework

Students should complete the work of graduate courses at the 60000-90000 level during the regular academic term in which they are taken. This expectation of students should also guide faculty members who teach graduate courses. That is, faculty are obligated to evaluate and grade graduate work by the end of the term in which the course is offered.

A grade of “Incomplete” (I) should be given only in exceptional circumstances when there are compelling reasons. When a student receives a grade of I, he or she has 30 calendar days from when grades were due (for the semester in which the I was given) to complete the coursework for a grade. The instructor of record then has 14 calendar days to report the grade. If the coursework is not completed by this date, the grade of I will be changed permanently to a grade of F. Extensions for Incompletes require formal approval from the associate dean for academic affairs.
in the Graduate School. The associate dean reserves the right to seek appropriate documentation from the Office of Disability Services if a request for an extension beyond the usual 30 calendar days is made for mental or physical health reasons.

Grade Point Average

Quality point values are used to compute the student’s G.P.A. The G.P.A. is the ratio of accumulated earned quality points to the accumulated attempted graded semester credit hours. Only courses taken at Notre Dame are calculated for a student’s G.P.A.

Continuation in a graduate degree program, admission to degree candidacy, and graduation require maintenance of at least a 3.0 (B) cumulative grade point average (G.P.A.).

An adequate G.P.A. is only one factor taken into consideration in determining a student’s qualifications for an advanced degree. Degree students should be aware of their program’s performance criteria. The program and the Graduate School annually evaluate each graduate student’s overall performance on the basis of these criteria.

Transfer Credits

A program may accept coursework completed at another accredited university toward meeting its degree requirements. A student may transfer credits earned at another accredited university only if: (1) the student has degree-seeking status at Notre Dame; (2) the courses taken are graduate courses appropriate to the Notre Dame graduate program, and the student had graduate student status when he or she took these courses; (3) the courses were completed within a five-year period prior to admission to a graduate degree program at Notre Dame, or while enrolled in a graduate degree program at Notre Dame; (4) grades of B (3.0 on 4.0 scale) or better were achieved; and (5) the transfer is recommended by the program and approved by the Graduate School.

These five requirements also apply to the transfer of credits earned in another graduate program at Notre Dame.

A student transferring from an unfinished master’s program may not transfer more than six semester credit hours into either a Notre Dame master’s or doctoral program.

If the student has completed a master’s or doctoral program, he or she may transfer up to nine semester credit hours to a Notre Dame master’s program and up to 24 semester-credit hours to a Notre Dame doctoral program. Grades for transferred courses are not included in the student’s Notre Dame G.P.A.

With advanced approval from the graduate program of study, a Notre Dame undergraduate who is registered for graduate courses at Notre Dame may use this coursework to meet graduate program requirements. These credits cannot be used to satisfy both undergraduate and graduate degree requirements. However, students in an integrated bachelor’s/master’s degree program may count up to six credits toward both degrees.

Graduate Student Status

Access to Computing Services

The University of Notre Dame NetID accounts and related services are intended for faculty, staff, and currently registered students. A student who fails to register and complete the ND Roll Call process by the date announced by the Registrar will forfeit the right to access his or her NetID account and related services. University computing resources supplied by way of the NetID are normally available to a student for up to 60 days after his or her graduation date. A student granted a leave-of-absence would normally retain access to University computing services for up to two semesters. A student who is separated from the University due to an academic suspension, academic dismissal, or withdrawal will no longer have access to University computing services, unless an extension has been approved by the dean of his or her college. A student attending Notre Dame for the summer only, with a non-degree seeking status, will normally retain access to University computing service for up to 60 days after the August graduation date. A student who is separated from the University for other reasons will no longer have access to University computing services.

Leave of Absence

For exceptional reasons and on the recommendation of the program, a student in good academic standing may request a leave of absence for a maximum of two consecutive semesters. A request for a leave of absence must be made before the first class day of the semester in which the leave is taken, and the associate dean for academic affairs in the Graduate School must approve all leaves of absence. If, for some urgent reason, a student is allowed to leave the University after the beginning of the semester, the withdrawal procedure must be followed. If the student does not return at the end of the leave of absence period, he or she is no longer considered a student at Notre Dame and must go through the readmission process if he or she wishes to complete the program at a later date.

In the case of a medical leave of absence, clearance from the University Health Center or University Counsel-
ing Center is required prior to readmission.

Medical Separation from Academic Duties

Students enrolled in the Notre Dame Graduate School who wish to temporarily interrupt their programs for medical reasons must make an official request to the Graduate School. Students are eligible under this policy if they have a “serious medical condition.” For purposes of this policy, “serious medical condition” means a medical condition that (1) requires multiple-day hospitalization OR (2) renders the student unable to engage in coursework and all other Graduate School-related duties for a period of at least ten (10) calendar days. Written certification by a physician that the student has a serious medical condition as defined in this policy must be submitted to the Graduate School as soon as the need is foreseen (for emergency requests). In situations involving childbirth or adoption, see the Childbirth and Adoption Accommodation Policy. In all cases, regardless of the nature of the medical condition, the duration of the separation will be as certified by the physician up to a maximum of six weeks. Students may utilize this medical separation policy two non-consecutive times during their graduate studies. Should students need more than six weeks at any one time, they must withdraw from the University. Leaves of absence for one semester or more for medical or other reasons are governed by the Graduate School.

Childbirth and Adoption Accommodation Policy

The childbirth and adoption accommodation policy is intended to assist graduate students who are new parents. Unlike the medical separation policy that covers any medical condition, this accommodation policy addresses a single set of circumstances: new parenthood. It is not a leave of absence; it is an accommodation. Students maintain their standing as students, are provided relief from full-time responsibilities and academic deadlines for up to one semester, and are eligible for financial support.

Programs are encouraged to work out specific arrangements with students, on a case-by-case basis, within the broad framework of this policy.

For the full text of this policy, see the “Childbirth and Adoption Accommodation Policy” on page 100.

Withdrawal from the Program

To withdraw from the University before the end of the semester, a student must inform the program and the Graduate School, and complete the Registrar’s Separation from the University Form.

Upon approval of the withdrawal, grades of W are given when a student withdraws after the mid-semester course discontinuance deadline has passed. If a student withdraws before this deadline, the courses in which the student was registered will not be recorded. If a student drops out of the University without following the procedure described above, a grade of F is recorded for each course.

To re-enter a program, the student must follow the readmission process. Credits for any courses or examinations will be forfeited if the student interrupts his or her program of study for five years or more.

In the case of a health withdrawal, the Graduate School may require a recommendation from the University Health Center or University Counseling Center regarding the student’s readiness to resume academic work prior to readmission.

The University reserves the right to require the withdrawal of any student when academic performance, health status, or general conduct may be judged clearly detrimental to the best interests of either the student or the University community.

Assessment of Student Progress

All students should receive written feedback annually. This may come from the advisor, the area coordinator (or faculty member responsible for the area in which the student is working), or the director of graduate studies.

If an advisor has serious concerns about a student’s academic performance or progress to degree, he or she should communicate this to the student in written form. This should be copied or forwarded to the director of graduate studies. If the advisor’s recommendation calls into question the student’s suitability for the program, the director of graduate studies will issue a warning letter to the student that specifies the concerns and the steps necessary to correct the situation, as well as the consequences of continued substandard academic performance.

If the student’s advisor happens to be the director of graduate studies, this letter will be then initiated by the chair of the department. The warning letter should specify a specific date when the student’s progress will be re-evaluated. A copy of the warning letter should be sent to the associate dean for academic affairs in the Graduate School.

If the student does not meet the stipulations outlined in the warning letter within the timeframe specified, the student will be either put on probation or dismissed from his or her program of study.
Graduate Student Status Designations

There are two status designations available to graduate students: in good standing and on probation. A graduate student can only have one designation, per program, at any given time.

In Good Standing

Graduate students who are enrolled and making satisfactory progress in their program of study are considered in good standing. Students must be in good standing to receive a graduate degree.

On Probation

A student who does not meet the stipulations within the timeframe outlined in the warning letter may be placed on probation. On probation status is intended to offer a student a final opportunity to correct deficiencies in his or her academic progress. Normally, a student will be on probation one or, at most, two semesters.

A student on probation must complete the stipulations outlined in the probation letter within the timeframe outlined or will be dismissed from his or her program of study.

Students on probation are ineligible for financial support from the Graduate School (stipend, full tuition, health subsidy, and professional development funds) except for a tuition scholarship that covers eight of the nine credit hours required to maintain full-time status. While on probation, if a student does meet the stipulations within the timeframe outlined in the probation letter, as decided by the program, the student will return to in good standing status the next semester of enrollment.

Probation Initiated by the Graduate School

In addition to the probation letter initiated by the student’s program of study, there are three ways in which a student may be placed on probation by the Graduate School. These are:

1. A cumulative grade point average below 3.0 in any two semesters;
2. A failure to pass candidacy exams by the end of the eighth semester;
3. Earning a U in research for two consecutive semesters.

Students who are placed on probation by the Graduate School will receive an official letter from the associate dean for academic affairs in the Graduate School that informs them of their status change.

Dismissal of a Student

Failure of a student to meet the stipulations within the timeframe outlined in either the warning letter or the probation letter may lead to dismissal from the program.

A student can be immediately dismissed from his or her program of study for the following reasons without a warning letter or a period of probationary status.

Extreme Under-Performance

This dismissal will be applied to a student whose performance is deemed wholly unacceptable by the student’s advisor, director of graduate studies, or program faculty. A semester G.P.A. below 2.5 in any single semester, or below 3.0 for two consecutive semesters; three consecutive U grades in research are examples of extreme underperformance.

Inability to Secure a Laboratory/Advisor

In some cases, a student may not be able to secure a laboratory and/or advisor. Normally, the student will be given funding for the remainder of the semester in which the student has registered. If the student and the director of graduate studies are unable to find an advisor, the student may be dismissed from the program.

Threat to Health and/or Safety

In rare circumstances, continued enrollment of a graduate student may constitute a serious disruption of the residential community or the academic environment. A student may be dismissed if: (a) The student poses a direct threat to the health or safety of himself or herself or others, or has seriously disrupted others in the student’s residential community or academic environment; or (b) the student’s behavior or threatening state is determined to be the result of a medical condition, or the student refuses to cooperate with efforts deemed necessary by the University Health Services and/or the University Counseling Center to evaluate the cause of the student’s behavior or threatening state. In some circumstances, the level of care and accommodation recommended may exceed the resources or appropriate staffing capabilities of the University or may be beyond the standard of care that University Health Services can be expected to provide or monitor.

The Graduate School is responsible for monitoring and assessing the academic progress of its students. However, there are other reasons for which a student can be disciplined, up to immediate dismissal from his or her program of study. For more details on these policies, please consult du Lac: A Guide to Student Life at [http://dulac.nd.edu](http://dulac.nd.edu).

Students will be notified in writing, by the director of graduate studies,
Academic Regulations

of the decision to dismiss them from their program of study for academic reasons. This notification will also be sent to the associate dean for academic affairs. The student may appeal the decision per the grievance and appeal procedures.

Academic Integrity

Integrity in scholarship and research is an essential characteristic of the academic life and social structure of the University. Any activity that compromises the pursuit of truth and the advancement of knowledge besmirches the intellectual effort and may undermine confidence in the academic enterprise. A commitment to honesty is expected in all academic endeavors, and this should be continuously emphasized to students, research assistants, associates, and colleagues by mentors and academic leaders.

Violation of integrity in research/scholarship includes, but is not limited to: plagiarism; deliberate fabrication or falsification in proposing, performing, or reporting research; or other deliberate misrepresentation in proposing, conducting, reporting, or reviewing research. Misconduct in research/scholarship does not include errors of judgment; errors in recording, selection, or analysis of data; differences in opinions involving interpretation; or conduct unrelated to the research process. Misconduct includes practices that materially and adversely affect the integrity of scholarship and research.

Plagiarism is a form of misconduct. A person’s words and ideas are his or her own; they belong to the individual and should be considered the individual’s property. Those who appropriate the words and/or ideas of another, and who attempt to present them as their own without proper acknowledgement of the source, whether intentional or not, are committing plagiarism or intellectual theft. It is assumed that all work submitted by a student represents the student’s own ideas and work. Verbatim copying, paraphrasing, adapting or summarizing the work of another, regardless of the source – whether books, journals, periodicals, websites, or other forms of media – must be properly cited. Any representation of the work of another that is not properly referenced is considered to be plagiarism. Ignorance of what constitutes plagiarism is not a defense to an allegation of a violation of the academic integrity policy. It is the responsibility of students to familiarize themselves with this definition of plagiarism and to learn proper citation techniques.

Any person who has reason to believe that a violation of this policy has occurred shall discuss it on a confidential basis with the department chair or director of the appropriate institute. If a perceived conflict of interest exists between the chair/director and the accused, the next highest academic officer shall be notified of the charge. The chair/director shall evaluate the allegation promptly. If it is determined that there is no substantial basis for the charge, then the matter may be dismissed with the fact of dismissal being made known to the complainant and to the accused if he or she is aware of the accusation. A written summary of charges, findings, and actions shall be forwarded to the dean of the Graduate School as a matter of documentation. Otherwise, the chair will select an impartial panel consisting of three members, one of whom may be a graduate student, to investigate the matter. The chair will inform the accused of the charges. The panel will determine initially whether to proceed directly to a hearing to further investigate the case, or to dismiss the charges. If the panel decides to proceed directly to a hearing, the hearing will be held within 10 business days (during normal University operations) of the original notification. If the panel decides that further investigation is necessary, it shall immediately notify the chair. If it decides that a hearing is not warranted, all information gathered for this investigation will be destroyed. The utmost care will be taken to minimize any negative consequence to the accused.

The accused party must be given the opportunity to respond to any and all allegations and supporting evidence at the hearing. The response will be made to the appointed panel. The panel will make a final judgment, recommend appropriate disciplinary action, and report to the chair in writing. The report will include all of the pertinent documentation and will be presented within 30 business days (during normal University operations) after meeting with the accused. Copies of the report are to be made available to the accused, the chair, and the dean of the Graduate School. If a violation is judged to have occurred, this might be grounds for dismissal from the University; research/scholarship violations might be reported to the sponsor of the research effort (e.g., NSF, NIH, Lilly Foundation, etc.), if appropriate.

If the student chooses to appeal, he or she must address the appeal in writing to the dean of the Graduate School within 10 days. The student has the right to appear before the dean or his or her delegate. The dean may decide to appoint an ad hoc committee to handle the appeal, if deemed necessary.

Violations of academic integrity by individuals who are not students are governed by different rules; students who are working on externally sponsored programs may also be covered by sponsor-mandated rules. Contact the Office of Research’s director of research compliance for further information.

The penalty for a student who admits wrongdoing should be determined by
the graduate committee of the student’s department or program. Any student who is found in violation of integrity in research and/or scholarship can be dismissed from the University.

**Falsification of Academic Credentials**

A student who has been admitted to a graduate degree program based in part upon a previously earned academic degree and is found to have intentionally misrepresented this information will be immediately dismissed from his or her program of study and will be barred from future graduate work at the University.

A current student or a student who has recently left the University without completing a degree who then claims to have earned said degree will be immediately dismissed from the program of study (if applicable) and barred from future graduate work at the University.

**Grievance and Appeal Procedures**

Students follow the grievance and appeal procedures of the program in which they are studying. Appeals beyond the program are made directly to the dean of the Graduate School.

For full details regarding the program resolution process and the formal appeal procedure, see “Appeal Procedure for Graduate Students” on page 99.

**Degree Requirements**

**The Master’s Degree**

The goal of the University master’s programs is to address all aspects of a student’s development as he or she transitions from a student to a professional. To this end, the Graduate School expects that the student will become knowledgeable of the broad scope of the discipline. The student should also have the capacity to think through ethical issues raised by their coursework and/or research, and to weigh important implications within value systems. Finally, students should be professionally prepared so that when they assume their careers, they can do so with confidence. These goals should be reflected in the requirements for the degree.

In addition to the following Graduate School requirements, individual programs may have higher standards. Students are expected to know their program requirements.

**Credit Hours**

At least thirty (30) credit hours are required for the master’s degree. Some programs may require more. These credit hours are earned through a combination of coursework and/or research.

**Residency**

The minimum residency requirement for the master’s degree is registration at full-time status for one semester during the academic year, or for one summer session.

**Foreign Language Requirement**

The Graduate School does not require foreign language reading proficiency for the master’s degree. However, some programs do have this requirement. Students should consult their programs concerning this requirement.

**Time Limits**

All requirements for the master’s degree must be completed within five years.

A master’s program that is pursued during the summer and the academic year must also be completed within five years.

A student attending summer sessions only must complete all requirements within seven years.

**Thesis Directors**

Each student is assigned an advisor from the time of enrollment. This may initially be the director of graduate studies, but an individual advisor or thesis director will be chosen as soon as practicable, following the program’s policies.

Advisors and thesis directors are chosen from the tenured and tenure-track faculty of the student's program or from the faculty in their program who hold a concurrent tenured or tenure-track position at Indiana University School of Medicine – South Bend. There also may be one co-director chosen from the faculty outside (or within) the student’s program. A co-director can be chosen from non-tenured and non-tenure-track faculty (e.g., special professional faculty, research professional faculty) if the other co-director is tenured or tenure-track faculty. In exceptional cases, a student may choose a thesis director from the Notre Dame tenured and tenure-track faculty outside the program or department. Arrangements for extra-departmental directors or co-directors must be consistent with program policies and must be approved by the program.

**Comprehensive Examination**

By the end of the term following completion of the coursework required by the program, the degree candidate must have taken an oral and/or written master’s examination demonstrating mastery in his or her field. Failure in either one or both parts of the examination results in automatic forfeiture of degree eligibility, unless the program recommends a retake. If a retake is
Admission to Candidacy

To qualify for admission to candidacy, a student must be in a master’s degree program. He or she must be registered and enrolled in the program and must maintain a minimum cumulative G.P.A. of 3.0 in approved coursework. A student who seeks admission to candidacy in a research master’s program must also demonstrate research capability and receive program approval of his or her thesis.

Admission to candidacy is a prerequisite to receiving any graduate degree. It is the student’s responsibility to initiate their admission to candidacy with their program. The applicable deadline is published in the Graduate School calendar.

Thesis Requirement

The thesis is the distinctive requirement of the research master’s degree. With the approval of his or her advisor, the student proposes a thesis topic for program approval. The approved topic is researched and the results presented under the supervision of a thesis director.

Once the thesis director has approved the thesis for distribution to the readers, the candidate must deliver print or PDF copies, depending on the preferences of the program, to the two official readers appointed by the program. Readers are appointed from among the regular teaching and research faculty of the student’s program or department. The thesis director may not be one of the official readers. The appointment of a reader from outside the student’s program or department must have the program’s approval. Each reader must unconditionally approve the thesis and the program should promptly report the results to the Graduate School.

When the thesis is given to the readers, the candidate should also give a complete copy in PDF to the Graduate School, where it will be reviewed for compliance with the formatting requirements. The formatting editor will review the layout of the document and advise the student of any required changes.

The format of the thesis should follow the guidelines established by the Graduate School; these guidelines can be found online at [http://graduate-school.nd.edu](http://graduate-school.nd.edu). The Graduate School reserves the right to reject theses not properly formatted.

Submitting the Thesis

To receive the degree at the next graduation, the master’s candidate who is completing a thesis must submit it to the Graduate School on or before the deadline published in the Graduate School calendar. Candidates should be cognizant of deadlines for graduation established by the Graduate School and the program.

The traditional formal thesis must be submitted in electronic form as a PDF uploaded to the CurateND dissertation and thesis intake site at [https://deposit.library.nd.edu/areas/etd/start](https://deposit.library.nd.edu/areas/etd/start). Only the official submission will be accepted by the Graduate School and cataloged by the Hesburgh Library.

In addition to the formal PDF copy of the thesis and the thesis director’s or co-directors’ approval to submit, additional submission materials may be required. For the most current list of requirements, students should consult the submission checklist on the Graduate School website.

Candidates must check with their programs for any departmental additions to the Graduate School requirements.

Submission of a Non-Traditional Theses

A student who wishes to complete a non-traditional formal thesis (for example, a multi-media project instead of a more traditional written thesis PDF) should discuss the alternate format with his or her thesis director prior to submitting the thesis proposal. Upon approval at the program level, the thesis director should notify the Graduate School’s dissertation and thesis editor by email, and indicate his or her approval of the non-traditional approach.

Once the Graduate School has been alerted to an incoming non-traditional thesis, the student should then arrange to discuss the submission with the dissertation and thesis editor as early as possible in the semester in which he or she intends to graduate.

At a minimum, a non-traditional thesis submission must include:

- The director’s approval, either as a digital sign-off on the CurateND intake site, or as a set of printed title pages with the director’s original signature; and
- An abstract (in English) that provides a description or analysis of the work.

The title page and abstract are both subject to a formatting review, and must meet the standards required of a traditional thesis.

The title page and abstract should then be submitted through the ETD site. In addition, the degree candidate
should upload any relevant digital components of the thesis that he or she wishes to have preserved by the library.

All other master’s thesis submission requirements for the traditional written thesis, including deadlines, surveys, and other checklist items, must be observed.

The Doctor of Philosophy Degree
The goal of the University in its doctoral programs is to address all aspects of a student’s development as he or she transitions from a student to a professional. To this end, the Graduate School expects that the student become an expert in a specific area within her or his discipline. In addition, the student should also become fully competent in the broad scope of the discipline, and be able to engage with others in professional society meetings at a sophisticated level. The student should have the capacity to think through ethical issues raised by his or her research and to weigh important implications within value systems. Finally, students should be professionally prepared so that when they assume their careers, they can do so with confidence. These goals should be reflected in the requirements for the degree.

In addition to the following Graduate School requirements, individual programs may require higher standards. Students are expected to know their program’s requirements.

Credit Hours
At least sixty (60) credit hours, or a minimum of 36 credit hours beyond a previously awarded master’s degree, are required for the Ph.D. Some programs may require more. These credit hours are earned through a combination of coursework and/or research.

Residency
The minimum residency requirement for the Ph.D. degree is normally full-time status for four consecutive semesters.

Foreign Language Requirement
The Graduate School does not have a foreign language requirement, but some programs do. Students should consult their program concerning this requirement.

Responsible Conduct of Research and Ethics Training
The Graduate School requires all Ph.D. students to complete any and all training modules for the Responsible Conduct of Research and Ethics requirements. All students supported by federal grants must be certified in accordance with national guidelines and the policies of the Office of Research. For more information, please consult the Professional Development portion of the Graduate School website at http://graduateschool.nd.edu.

Award of Master’s Degree to Doctoral Students
A doctoral student may receive the master’s degree without taking the master’s comprehensive examination on the recommendation of the program and completion of: (a) the coursework required by the program for the master’s degree, and (b) all written and oral parts of the doctoral candidacy or Ph.D. qualifying examination. Programs may have additional criteria, or may choose not to offer a master’s degree in this manner; students should consult the program’s guidelines.

Time Limit
The student must fulfill all doctoral requirements, including the dissertation, its defense, and the official submission within eight years from the time of matriculation, unless interrupted by approved leave(s) and/or approved childbirth accommodation(s). Failure to complete any of the Graduate School or program requirements within the prescribed period results in forfeiture of degree eligibility.

If, after the eighth year of study, a student has not fulfilled all doctoral requirements, he or she may apply for a one-year dissertation completion status. Students who are granted this status are considered part-time and must register each semester for the equivalent of one credit hour of resident tuition, payable by the student.

Advisors and Dissertation Directors
Each student is assigned an advisor from the time of enrollment. This may initially be the director of graduate studies, but an individual advisor or dissertation director will be chosen as soon as practicable, following the program’s policies.

Advisors and dissertation directors are chosen from the tenured and tenure-track faculty of the student’s program or from the faculty in their program who hold a concurrent tenured or tenure-track position at Indiana University School of Medicine – South Bend. There also may be one co-director chosen from the faculty outside (or within) the student’s program. A co-director can be chosen from non-tenured and non-tenure-track faculty (e.g., special professional faculty, research professional faculty) if the other co-director is tenured or tenure-track faculty. In exceptional cases, a student may choose a dissertation director from the Notre Dame tenured and tenure-track faculty outside the program or department. Arrangements for extra-departmental directors or co-directors must be consistent with program policies and must be approved by the program.
**Candidacy Examination**

The examination consists of two parts: a written component and an oral component. The written part of the examination normally precedes the oral part. It is designed, scheduled, and administered by the program. The oral part of the examination is normally taken after the completion of the coursework requirement. If the proposal defense is part of the oral, it should be a defense of a proposal and not of a completed dissertation.

Normally, the candidacy examination is passed, and the dissertation topic approved, by no later than the student's eighth semester of enrollment. A student who fails to meet this deadline will be placed on probation and Graduate School funding will be discontinued.

A board of at least three voting members nominated by the department and appointed by the Graduate School administers the oral part of the examination. (The department may require larger committees.) Normally, this board has the same membership as the student's dissertation committee. Board members are normally chosen from the teaching and research faculty of the student's department, although if approved by the department, a faculty member from another department or another institution may also be appointed to the committee.

Prior to the examination, committees should review departmental regulations for the conduct of the exam, the process of the exam, and voting procedures. Before the exam begins they should inform the candidate of the process of the exam. After completion of the examination, the candidate should be asked to leave the room. Discussion of the candidate's performance should then commence, with the committee ultimately voting on whether that performance merits a passing or failing of the exam. On a board of three, two votes are required to pass. On a board of four, three votes are required to pass. If a department chooses to have five members, four votes are required to pass. A written report of the results of the voting is sent immediately to the Graduate School by a member of the committee, normally the advisor.

In case of failure in either or both parts of the doctoral candidacy examination, the department chair, on the recommendation of a majority of the examiners, may authorize a retake of the examination if this is permitted by departmental regulations. An authorization for retake must be approved by the Graduate School. A second failure results in forfeiture of degree eligibility and is recorded on the student's permanent record.

A candidate has the right to appeal the result of the exam to the dean of the Graduate School on procedural grounds only, not on its substance or on his/her performance. If a retake is granted, an outside monitor appointed by the Graduate School must be present.

**Admission to Candidacy**

Admission to candidacy is a prerequisite to receiving a doctoral degree. To qualify for admission to doctoral candidacy, a student must: be in a doctoral program, complete the program coursework requirement with a cumulative G.P.A. of 3.0 or better, pass the written and oral parts of the doctoral candidacy examination, and have the dissertation proposal approved (if this is not part of the candidacy exam).

Admission to candidacy is a prerequisite to receiving any graduate degree. It is the student’s responsibility to initiate their admission to candidacy with their program. The applicable deadline is published in the Graduate School calendar.

**The Ph.D. Dissertation**

In continuing consultation with the dissertation director, the candidate explores research areas in his or her field to formulate a dissertation proposal. The methods of approval of the dissertation proposal are determined by the individual programs.

The department chair or director of graduate studies will appoint a dissertation committee consisting of the dissertation director and at least two readers. (The department may require larger committees.) Normally, the committee is drawn from the membership of the student's oral candidacy board. The student's department or program must approve the appointment of committee members from outside the department and/or the University.

The candidate delivers printed or PDF copies of the finished dissertation, depending on the preference of the program, to the department chair for distribution to the readers.

Readers normally have two to four weeks to read the dissertation, decide whether it is ready to be defended, and so indicate on the appropriate form to the Graduate School. Reader approval of the dissertation for defense does not imply reader agreement or support; it implies reader acknowledgment that the dissertation is an academically sound and defensible scholarly product. Only a dissertation that has been unanimously approved for defense by the three readers may be defended.

Even though the dissertation has been approved for defense, revisions may be required. If defects in the dissertation come to light at the defense, the candidate may be asked to revise the dissertation before it is accepted by
the Graduate School and the degree is conferred. In that case, it will be the responsibility of the dissertation director, or such person as the committee may appoint, to report to the Graduate School that such revisions have been completed satisfactorily.

When the dissertation is given to the readers, the candidate should also give a complete copy in PDF to the Graduate School, where it will be reviewed for compliance with the formatting requirements. The formatting editor will review the layout of the document and advise the student of any required changes.

The format of the dissertation should follow the guidelines established by the Graduate School and ProQuest. These guidelines can be found online at http://graduateschool.nd.edu. The Graduate School reserves the right to reject dissertations not properly formatted.

**Defense of the Dissertation**

In defending the dissertation, the doctoral candidate supports its claims, procedures, and results. The defense is the traditional instrument that enables the candidate to explore with the dissertation committee the dissertation's substantive and methodological force. In this way, the candidate and the committee confirm the candidate's scholarly grasp of the chosen research area.

Prior to the examination, committees should review departmental regulations for the conduct of the defense, the process of the defense, and voting procedures. Before the defense begins, the committee should inform the candidate of the defense process. After completion of the examination, the candidate must be asked to leave the room. Discussion of the candidate's performance should then commence, with the committee ultimately voting on whether the performance merits a passing or failing of the defense. On a board of three, two votes are required to pass. On a board of four, three votes are required to pass. If a department chooses to have five members, four votes are required to pass. A written report of the results of the voting is sent immediately to the Graduate School by a member of the committee, normally the advisor.

In case of failure of the defense, on the recommendation of a majority of the examiners, another opportunity to defend may be authorized if this is permitted by departmental regulations. An authorization for a second defense must be approved by the Graduate School. A second failure results in forfeiture of degree eligibility and is recorded on the candidate's permanent record.

A candidate has the right to appeal the result of the defense to the dean of the Graduate School on procedural grounds only, not on its substance or on his/her performance. If a retake is granted, an outside monitor appointed by the Graduate School must be present.

**Submitting the Dissertation**

To receive the degree at the next graduation, the doctoral candidate who has successfully defended his or her dissertation must submit it to the Graduate School on or before the deadline published in the Graduate School calendar. Candidates should be cognizant of deadlines for graduation established by the Graduate School and the program.

To be accepted by the Graduate School, the dissertation should be prepared according to the formatting guidelines established by the Graduate School and ProQuest. These guidelines can be found online at the Graduate School’s website, http://graduate-school.nd.edu. For formatting guidance beyond these guidelines, students should follow the formatting custom in their field.

After successfully defending the dissertation and making any necessary text and formatting changes, the candidate must submit the final dissertation to the Graduate School electronically by uploading a PDF of the document to the CurateND dissertation and thesis intake site at https://deposit.library.nd.edu/areas/etd/start. Only the official electronic submission will be accepted by the Graduate School and the Hesburgh Library.

In addition to the formal PDF of the dissertation and the dissertation director’s or co-directors’ approval to submit, additional submission materials may be required; for the most current requirements, students should consult the submission checklist on the Graduate School website.

Candidates must check with their programs for any departmental additions to the Graduate School requirements.

**The Doctor of Musical Arts Degree**

The goal of the University in its D.M.A. program is to address all aspects of a student’s development as he or she transitions from a student to a professional and well-informed performing musician and pedagogue. To this end, the Graduate School expects that the student becomes an expert in a specific area within her or his discipline. In addition, the student should also become fully competent in the broad scope of the discipline, and be able to engage with others in professional society meetings at a sophisticated level and to perform within his or her expertise at the highest level. The student should have the capacity to think through ethical issues raised by his or her research and performance and to weigh important implications.
within value systems. Finally, students should be professionally prepared so that when they assume their careers, they can do so with confidence. These goals should be reflected in the requirements of the degree.

In addition to the following Graduate School requirements, students applying for the D.M.A. are required to have an appropriate master’s degree, either the MA, MM, or the MSM. The holding of this degree is assumed in the description that follows. Note that the D.M.A. is a stand-alone degree, separate from the appropriate master’s degree earned either at Notre Dame or at another institution. If the student has an MSM from Notre Dame, that transcript is a separate document and grades from the MSM have no bearing on the grade-point average of the D.M.A.

Credit Hours
At least sixty (60) credit hours are required, beyond the previously earned master’s degree. All GPA credits must be completed during the first two years of residency and prior to admission to candidacy.

Residency
The normal residency requirement for the D.M.A. is full-time status for six consecutive semesters, with a minimum of four.

D.M.A. students often are recruited for positions at the end of the second summer of residency. When this is the case, or in the case of taking a fellowship abroad, the DGS and the dissertation director help the student to negotiate ways of preparing for the lecture recital and taking lessons with her/his studio teacher. In some cases, the student may study with an approved professional outside of ND; in other cases, the student may arrange occasional visits to ND to meet with her/his studio teacher. Increasingly, it is possible to have lessons using some form of online communication.

Foreign Language Requirement
As part of admission to candidacy by the end of the summer of the second year, a student must have met the program’s requirements for competency in at least one foreign language.

Ethics Training
As part of its holistic approach to graduate education, the Graduate School requires all D.M.A. students to complete 3-hour ethics training. For more information, please consult the Graduate Training portion of the Graduate School website at http://graduateschool.nd.edu.

Time Limit
The student must fulfill all D.M.A. requirements, including the dissertation, its defense, and the official submission within 4.5 years from the time of matriculation, unless interrupted by approved medical leave(s) and/or approved childbirth accommodation(s). Failure to complete any of the Graduate School or program requirements within the prescribed period results in forfeiture of degree eligibility.

Intense work toward completion of the dissertation is necessary for a student to remain in good standing in the D.M.A. program, and this progress will be evaluated each semester after admission to candidacy. If, after 4.5 years of enrollment, a student has not fulfilled all doctoral requirements, he or she may apply for dissertation completion status for one semester. Students who are granted this status are considered part-time and must register for the equivalent of one credit hour of resident tuition, payable by the student.

This request for an extension must be made in the semester before the status to be granted, that is, within the fall semester of the fifth year of enrollment. No further extensions will be granted after the end of the fifth year of enrollment. If a student has not defended their dissertation by the end of the semester of dissertation completion status, he or she will be terminated.

Candidacy Examination
The examination consists of two parts: a written component and an oral component. The written part of the examination normally precedes the oral part. It is designed, scheduled, and administered by the program. The oral part of the examination is normally taken after the completion of the 47 GPA credit hour coursework requirement.

Normally, the candidacy examination is passed, and the D.M.A. dissertation topic approved, no later than the summer following the fourth semester of enrollment.

Admission to Candidacy
Admission to candidacy is a prerequisite to receiving a doctoral degree. To qualify for admission to doctoral candidacy, a student must: complete the program coursework and language requirements with a cumulative GPA of 3.0 or better, pass the written and oral parts of the doctoral candidacy examination, and have the D.M.A. dissertation proposal approved.

It is the responsibility of the student to apply for candidacy admission by submitting the appropriate form to the Graduate School office through the director of graduate studies.

The D.M.A. Dissertation
In continuing consultation with the dissertation director, the candidate explores research and performance areas
in his or her field to formulate a proposal. The methods of approval of the dissertation proposal are determined by the student's program of study.

Defense of the D.M.A. Dissertation
In defending the dissertation, the D.M.A. candidate supports its claims, procedures, and results. The defense is the traditional instrument that enables the candidate to explore with the dissertation committee the dissertation substantive and methodological force. In this way, the candidate and the committee confirm the candidate's scholarly and performative grasp of the chosen research area.

Submitting the D.M.A. Dissertation
To receive the degree at the next graduation, the D.M.A. candidate who has successfully defended his or her dissertation must submit it to the Graduate School on or before the deadline published in the Graduate School calendar. Candidates should be cognizant of deadlines for graduation established by the Graduate School and the program.

The format of the dissertation should follow the guidelines established by the Graduate School. These guidelines can be found online at [http://graduate-school.nd.edu](http://graduate-school.nd.edu). The Graduate School reserves the right to reject dissertations not properly formatted.

## Financial Information

### Tuition and Expenses

Please note: The following tuition, fees, housing, and living costs are for the academic year 2019–2020. Annual increases in costs should be anticipated.

### Tuition

Full-time for a degree-seeking student is defined as nine credit hours per semester.

For the full-time graduate student, the tuition for the academic year 2019–2020 is $54,908 plus fees. Tuition for the part-time student is $3,050 per semester credit hour plus fees. Non-resident tuition is $500 per semester.

In the ESTEEM, ACMS master of science, and Global Health master of science programs, the tuition is divided across the three terms, with 20% charged in the summer, 40% in the fall, and 40% in the spring.

The Data Science master of science program has a tuition rate of $50,000, charged at $10,00 per term, plus fees, in each of five consecutive terms.

A full-time graduate student may audit courses without charge during the academic year. Any course taken or audited in the summer session will be charged the full price.

### Academic Year Fees

- Technology Fee: $250*
- Health Center Access Fee: $150**
- Graduate Student Activity Fee: $72***

* The technology fee provides partial funding for the University's enterprise-wide technology infrastructure, which provides all students access to the Internet, e-mail, course ware, campus clusters, ResNet, and a wide array of the latest software. This fee provides for the growth in student services, such as course and degree requirements, Web Registration, and value-added Internet-related capabilities.

** The health center access fee provides students access to all services at the University Health Center and University Counseling Center, including 24-hour medical care and counseling/mental health assistance, and alcohol and drug education programs, as well as health education and wellness programs.

*** The graduate student activity fee is the responsibility of the student. This fee, charged in the fall to all graduate students, covers the cost of graduate student activities, including but not limited to lectures/seminars, graduate student officer research funds, and office overhead. The fee also funds a competitive award that partially reimburses expenses graduate students incur during travel to conferences and meetings to present work conducted in the students' major fields of study.

### Office of Student Accounts

Telephone: (574) 631-7113
E-mail: stdacct@nd.edu
Web: [http://studentaccounts.nd.edu](http://studentaccounts.nd.edu)

Tuition and fees, as well as any required deposits, are payable in advance at the beginning of each semester. Please note that Notre Dame does not accept credit cards for payment of tuition and fees. Tuition and/or fees not covered by scholarship are the responsibility of the student.

A student may not register for a new semester or receive transcripts, certificates, diploma, or any information regarding his or her academic record until the account has been settled in full.

### Separation from the University

Any student who at any time within the school year wishes to withdraw from the University should contact the Office of the Registrar. To avoid failure in all classes for the semester and in order to receive any financial adjustment, the withdrawing student must obtain the appropriate clearance from
the Dean of his or her college and from the Assistant Vice President for Residence Life.

On the first day of classes, a full tuition credit will be made. Following the first day of classes, the tuition fee is subject to a prorated adjustment/credit if the student (1) withdraws voluntarily for any reason on or before the last day for course discontinuance at the University, or (2) is suspended, dismissed, or involuntarily withdrawn by the University, for any reason, on or before the last day for course discontinuance at the University, or (3) is later obliged to withdraw because of protracted illness, or (4) withdraws involuntarily at any time because of military service, provided no credit is received for the classes from which the student is forced to withdraw.

Upon return of the student forced to withdraw for military service, the University will allow him or her credit for that portion of tuition charged for the semester in which he or she withdrew and did not receive academic credit.

Room and board charges will be adjusted/credited on a prorated basis throughout the entire semester.

Students receiving University and/or Federal Title IV financial assistance who withdraw from the University within the first sixty percent (60%) of the semester are not entitled to the use or benefit of University and/or Federal Title IV funds beyond their withdraw date. Such funds shall be returned promptly to the entity that issued them, on a pro rata basis, and will be reflected on the student’s University account.

This Withdrawal Regulation may change subject to federal regulations. Examples of the application of the tuition credit calculation are available from the Office of Student Accounts upon request.

### Financial Information

#### Housing

Telephone: (574) 631-5878  
Web: [http://housing.nd.edu](http://housing.nd.edu)

Accommodations for single, married, or parenting graduate students (and their families) are available in the Fischer Graduate Residences adjacent to campus. The apartment complex offers apartments with living space, a kitchen, one full bath, and two bedrooms for $645 – $1,260 a month (rent includes utilities, local phone and internet connection). A deposit equal to one month's rent is required.

Fischer Graduate Residences are managed by Bradley Company on behalf of the University. For further information, contact (574) 631-8607 or visit the website at [http://www.fog Bradleyco.com](http://www.fog Bradleyco.com).

#### Health Insurance

Telephone: (574) 631-6114  
E-mail: insurancequestions@nd.edu  
Web: [http://uhs.nd.edu](http://uhs.nd.edu)

The student will be automatically enrolled in the University-sponsored plan, and the charge for the premium will be placed on the student’s account prior to the start of the academic year. At the beginning of each academic year, the opportunity is provided to show proof of comparable health insurance coverage. If University Health Services accepts this coverage, the charge for the University-sponsored plan will be removed from the student’s account by University Health Services.

Information regarding the University-sponsored plan is mailed to the student’s home address in July. Additional information is available in University Health Services by contacting the Office of Insurance and Accounts at (574) 631-6114 or referring to the UHS website: [http://uhs.nd.edu/insurance-billing/](http://uhs.nd.edu/insurance-billing/).

The cost of the student premium for the 2019–2020 academic year (effective August 15, 2019, to August 14, 2020) is $2,555. The insurer for the student health insurance policy is Aetna.

Premium information for dependent coverage may be found on the University Health Services website.

The Office of Student Accounts will offer students receiving a stipend from the University the option of paying the premium through deductions from the academic year stipend payments.

#### Health Insurance Subsidy Program

The Graduate School has a program to subsidize the student premium of University-sponsored student health insurance. The subsidy for 2019–2020 is $2,555 for degree-seeking students on full stipend support for both the Fall 2019 and Spring 2020 semesters. Students will receive a $1,277.50 subsidy if they are on full stipend support for only one semester. Eligible students who enroll in the University-sponsored student health insurance between August 15, 2019 and August 14, 2020 and are not charged the full $2,555 will receive a subsidy pro-rated based on the premium amount. Eligible students who waive the University-sponsored plan by September 15, 2019 will receive a $200 credit on their student account.

#### Eligibility

Doctoral students must be in their first eight years of study to be eligible for a health subsidy. Masters' students must be in their first five years of study to be eligible for a health subsidy. A full stipend is defined as the minimum nine-month or 12-month stipend for each degree level. Students should con-
tact their academic department with questions about their subsidy eligibility or funding levels. The Graduate School provides the departments with the subsidy level and eligibility criteria each year.

**Procedure**

No application for the subsidy is required. University Health Services, the Graduate School, Financial Aid and Student Accounts will automatically process the subsidy for eligible students in October. An audit will be performed early in the spring semester to adjust the subsidy for those students whose eligibility changes in the spring semester.

**Tax Obligation**

Because students receiving a stipend are not classified as employees of the University, the health insurance subsidy is a taxable benefit. In this case, however, it is regarded as 'taxable but not reportable'. The University will not withhold income tax from a student's subsidy, nor will it report the subsidy to the Internal Revenue Service. Students who receive the subsidy are obligated to self-report the income on their individual income tax returns. Note that the health insurance subsidy may be subject to reporting and withholding if you are an international student.

**Worker's Compensation Insurance**

Students injured while performing assigned duties in University laboratories are covered by worker's compensation insurance as if they were Notre Dame employees. If a student is injured in this manner, he or she should seek treatment at the Notre Dame Wellness Center, or, if the Wellness Center is closed, at St. Joseph Regional Medical Center. (Students suffering illness or injury not related to assigned duties should visit the University Health Services in St. Liam Hall.)

During a period of temporary inability to perform duties as a result of such injuries, workers compensation provides for continuation of 66.6% (to state limits) of usual income after seven days have passed. Income beyond the limits set by workers compensation is subject to the discretion of department chairs where support is from funds allocated by the Graduate School. Income beyond workers compensation is subject to the discretion of principal investigators and the guidelines of external sponsors where support is from funds provided by research grants.

**Travel Accident Insurance**

Students injured while traveling to present at conferences or on other University business which has been approved by the student's department chair are covered by Notre Dame travel accident insurance. Compensation in set amounts is available for death or loss of arms or legs. Medical expenses in excess of other insurance are paid up to a maximum dollar amount.

**Financial Support**

Exact amounts for the following aid will vary with the type of support and the department. Exact figures can be obtained from the particular department to which the student has been admitted. Initiation and continuation of financial support depends on the student's maintaining good academic standing.

Only full-time, degree-seeking students are eligible for support. Recipients of financial support such as assistantships or fellowships usually may not accept additional appointments. Rare exceptions are made only on the recommendation of the respective department.

**Categories of Support**

The University offers three types of financial support to graduate students: assistantships, fellowships, and tuition scholarships. Students may receive one type of support or a combination.

Only full-time, degree-seeking students are eligible for support.

Students must remain in good academic standing to be eligible for continued financial support.

Doctoral students are eligible for assistantships and fellowships funded by the University during their first six years of study. Masters' students are eligible for assistantships and fellowships funded by the University during their first three years of study. There is no eligibility limit for doctoral or masters' students receiving fellowships and assistantships funded from other sources.

**Assistantships**

An assistantship is an arrangement in which financial support is given to a graduate student who engages in teaching, research, or professional development activities in furtherance of the University's academic mission as well as his or her holistic development in preparation for a professional career. The University recognizes three kinds of assistantships: Teaching, Project, and Research.

The duration of an assistantship may range from a single academic term to a full year. Assistantships may be full (an expectation of 18 hours/week) or half (an expectation of 9 hours/week). Half assistantships may be combined.

During the term of any kind of assistantship, students are expected to make sustained academic progress towards the degree. For doctoral students, progress includes undertaking
research that supports their dissertation or is in preparation for it.

If the types of duties the student will be assigned in a new or existing position do not fall primarily into one of the definitions of assistantships below (Teaching, Project, or Research), then the position should be treated as one of paid employment. [See section below titled Paid Employment.]

**Teaching Assistantships**

Teaching assistantships are awarded to students who perform duties ranging from reading and grading assignments to running discussion sections or labs, or teaching sections of undergraduate courses. (The latter teaching assistantship is designated as “instructor of record” in the Registrar’s course listing.) Assistant Rectors are also classified as teaching assistants, based on their role contributing to the holistic development of the graduate by providing experience with mentoring, guiding, teaching, counseling undergraduate students and planning programs and initiatives to further the holistic development of the undergraduate students.

The time commitment for teaching assistantship duties may vary from week to week but will have a typical maximum of 18 hours per week and may not exceed 20 hours per week.

**Project Research Assistantships**

Project assistantships are awarded to students who engage in research or other activities not directly thesis- or dissertation-related but that are part of the student’s professional development. Examples are: assistance with computations for a faculty member’s research when that faculty member is in a department other than the student’s own, development of conference materials, editing a journal, or assisting a faculty member with developing or coordinating a conference.

The expected time commitment for project assistantship duties may vary from week to week, but the typical maximum is 18 hours per week and may not exceed 20 hours per week.

**Research Assistantships**

Research assistantships are awarded to students who assist faculty members on research programs either at the University or in the field.

If the assistantship is funded through a sponsored agreement, then the graduate student must be conducting activities necessary to the sponsored agreement.

The work performed as a research assistant is not only part of the faculty member’s research program but also supports the student’s dissertation research or preparation for that research and is, therefore, in satisfaction of a degree requirement.

For that reason, while the time commitment attributed to the research assistantship duties of a student is considered to be 18 hours per week, because the research being conducted is integral to the dissertation, or preparation for it, the overall time devoted to the research as a whole is expected to be significantly more extensive.

**Fellowships**

Fellowships are awarded to assist a student in the pursuit of a degree. No obligation for teaching or research is expected in return. Students who have been awarded fellowships are expected to devote themselves fully to scholarship, research, or the completion of their dissertations.

The duration of a fellowship may range from a single academic term to a full year. Fellowship recipients will be notified by an award letter. Fellowships may be awarded in addition to an assistantship. In these cases, the service requirement is associated with the assistantship portion of the student’s total awards.

Note that a fellowship does not exempt a student from a program’s academic requirements, such as teaching, although it may change the timing of the satisfaction of the requirement.

**Tuition Scholarships**

The University offers full or partial tuition scholarships to students qualifying on the basis of merit.

Doctoral students are eligible for tuition scholarships during their first eight years of study. Masters’ students are eligible for tuition scholarships during their first five years of study.

**Paid Employment**

If a student’s duties in a position do not fall primarily into the assistantship definitions above, he or she should be treated as a paid employee. Examples of positions of paid employment include a clerical or administrative assistant assignment in a department office, working at the circulation desk in a library, or preparing a bibliography for a faculty member.

Students who have been awarded a full assistantship or fellowship may not undertake paid employment with either the University or an outside employer while enrolled. Exceptions may be granted in cases of unique academic or professional benefit, personal benefit, or extreme financial hardship and must have the prior written approval of the graduate student’s advisor, director of graduate studies, and the Graduate School. Generally, any exceptions will not exceed 2 hours per week.

Full-time degree-seeking students who are not fully supported may undertake paid employment with either the University or an outside employer while enrolled if they have the prior writ-
ten approval of the student’s advisor, director of graduate studies, and the Graduate School. Generally, for these students as well, the total assistantship, if any, and employment obligations may not exceed 20 hours per week.

Note that under current United States immigration regulations, any international student—whether fully supported or not—who is studying on an F-1 or J-1 visa and seeks employment off-campus for any amount of hours, must obtain written authorization through the appropriate staff member within Notre Dame International.

**Summer Employment: Doctoral Students**

At no time in the summer months may the combination of assistantship, fellowship, and paid employment exceed 20 hours per week unless the student has the prior written approval of the advisor, director of graduate studies and the Graduate School. The requirement (based on current United States immigration regulations) that international students studying on an F-1 or J-1 visa seeking off-campus employment obtain written authorization through the appropriate staff member within Notre Dame International applies in the summer months as well.

**Financial Aid**

**Veterans Educational Benefits**

Telephone: (574) 631-6488  
E-mail: wojtysiak.2@nd.edu  
Web: https://registrar.nd.edu/students/veteran_affairs.php

Veterans’ benefits are approved by the Indiana State Approving Agency. Students who qualify to use educational benefits can find information on the certification process on the Office of the Registrar’s website, https://registrar.nd.edu/students/veteran_affairs.php. Please note that due to the recent passing of the Harry W. Colmery Veterans Educational Assistance Act (Forever GI Bill), the monthly housing allowance will now be determined based on the physical location (zip code) where students attend the majority of their courses. This is particularly relevant for students who participate in internships, externships, student teaching, and practicums. Students participating in a Notre Dame study abroad program will receive the standard housing rate for a foreign institution. For specific information on how this will affect your VA educational benefits or housing rates, please contact the Primary School Certifying Official in the Office of the Registrar, 300 Grace Hall.

**Office of Financial Aid**

Telephone: (574) 631-6436  
E-mail: finaid@nd.edu  
Web: http://financialaid.nd.edu

In addition to the student support programs described above, the Office of Financial Aid, located in 115 Main Building, administers federal and private financial aid programs to assist in the financing of your Notre Dame education.

**Summer Employment: Master’s Students**

Students in course-based master’s programs have no University-imposed limitations on paid employment when classes are not in session. The requirement (based on current United States immigration regulations) that international students studying on an F-1 or J-1 visa seeking off-campus employment obtain written authorization through the appropriate staff member within Notre Dame International applies during academic-year breaks and in the summer months as well.

**Travel Reimbursement**

Reimbursement is subject to University travel policy, which can be found on the Controller’s website, under Policies and Procedures: http://controller.nd.edu

Applications for the following professional development funds can be found on the Graduate School website: http://graduateschool.nd.edu.

- GSU Conference Presentation Grant Program
- Zahm Research Travel Fund
- Joseph F. Downes Memorial Fund
- Notebaert Professional Development Fund
Academic Standing and Satisfactory Progress

The U.S. Department of Education requires students to maintain satisfactory progress toward completing their degree in order to receive financial aid. Satisfactory academic progress requirements for financial aid recipients may not be the same as the University’s requirements for academic good standing. Students are required to maintain a minimum cumulative grade point average, be on pace to graduate, and complete their degree within a maximum time frame. All semesters of enrollment are reviewed regardless of whether aid was received. Additional details may be obtained from the Office of Financial Aid website.

Federal Direct Loan

The terms of the non-need-based Unsubsidized Federal Direct Loan Program require that the borrower repay, with interest, this source of financial assistance. This program is referred to as “unsubsidized” because the federal government is not paying the in-school interest to the lender while the student is enrolled in school. Interest on the Unsubsidized Direct Loan begins to accrue after disbursement of the loan funds; however, the student may choose to have the payment of the interest deferred during enrollment and later capitalized (added to the principal) at the time repayment begins. For a list of additional terms of the Unsubsidized Direct Loan, visit the Office of Financial Aid website.

Federal Direct PLUS Loan

The Federal Direct PLUS Loan provides a borrowing option for graduate/professional students. Based upon the borrower’s credit history, a student may borrow through this federally guaranteed, non-need-based loan program. Direct PLUS Loan applications are subject to Department of Education credit review. The maximum PLUS loan amount is the full cost of attendance minus all other financial aid. Repayment begins after the loan is fully disbursed or may be deferred while the student is enrolled in school. For a list of additional terms of the Direct PLUS Loan, visit the Office of Financial Aid website.

Private Student Loans

After exhausting the opportunities available from the federal aid programs, many students will consider private loan programs as a source of funding.

The terms and conditions of these credit-based loan programs vary, and as such, students are encouraged to review the details of the programs before selecting a private loan program. Private loans are not eligible for loan consolidation programs made available for federal student loans. Interest rates, fees (both at the time of borrowing and at repayment), credit checks, and annual and aggregate loan limits require careful evaluation by the student as a consumer.
Aerospace and Mechanical Engineering

Chair:
Kenneth C. Christensen

Director of Graduate Studies:
David B. Go

Telephone: (574) 631-5430
Fax: (574) 631-8341
Location: 365 Fitzpatrick Hall
E-mail: amedept@nd.edu
Web: http://ame.nd.edu

Current research efforts in the program in aerospace and mechanical engineering are within the areas of biomedical science and engineering, computational engineering and modeling, energy, material, and thermal sciences, flow physics and control including aerospace and fluid mechanics, and robotics and controls.

The programs of study and research lead to the degrees of master of science in aerospace engineering (M.S.A.E.), master of science in mechanical engineering (M.S.M.E.), and doctor of philosophy (Ph.D).

Every degree-seeking student is required to participate in the academic programs of the department by performing a teaching-related assignment.

For specific course, project and examination details required for each degree, refer to the program’s graduate handbook.

The Master of Science in Aerospace Engineering or Mechanical Engineering

The master of science programs lead toward proficiency and creative talent in the application of basic and engineering sciences to relevant problems in the two engineering disciplines.

Students wishing to complete a research master’s degree are required to submit a written thesis. Those wishing to complete a non-research, course work-only program are required to submit a research or design project with a project report. In general, students are encouraged to follow the research path.

The Doctor of Philosophy

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<tr>
<th>Degree Requirements</th>
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<tbody>
<tr>
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<tr>
<td>Total Credits</td>
<td>60 credits</td>
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<tr>
<td>Other</td>
<td>Qualifying examination, Candidacy examination, Doctoral dissertation</td>
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</tbody>
</table>

The doctoral program strives to prepare students for creative and productive scholarship. It is designed to suit each student’s interests and gives students the opportunity to conduct individual research under the supervision of the department faculty.

Examinations

An oral qualifying exam is used to assess student readiness to pursue a Ph.D. and must be completed prior to the beginning of the fourth semester, typically in the summer following the first year. An oral candidacy exam is completed after approximately three years of study; completion of the candidacy exam advances the student to the status of Ph.D. candidate. At the conclusion of the program, the student’s research and research findings are presented as a Ph.D. dissertation and in an oral defense.
Tenured and Tenure-Track Faculty

Robert Bernhard, Professor
Hsueh-Chia Chang, Concurrent Professor
Kenneth Christensen, Viola D. Hank Professor and Department Chair
Thomas C. Corke, Director of the Hessert Laboratory for Aerospace Research and Clark Equipment Professor
Harindra J. Fernando, Concurrent Professor
David Go, Rooney Family Associate Professor and Director of Graduate Studies
J. William Goodwine, Professor
Stanislav Gordeyev, Associate Professor
Maria Holland, Clare Booth Luce Assistant Professor
Donny Hunjaya-Putra, Assistant Professor
Thomas Juliano, Assistant Professor
Eric J. Jumper, Roth Gibson Professor
Andrew Kennedy, Concurrent Associate Professor
Edward C. Kinzel, Associate Professor
Tengfei Luo, Dorini Family Associate Professor
Karel Matous, Associate Professor
Scott C. Morris, Professor
Svetlana Neretina, Associate Professor
Glen L. Niebur, Professor
Timothy C. Ovaert, Professor
Zhangli Peng, Assistant Professor
Mark Plecnik, Assistant Professor
Joseph M. Powers, Professor
Matthew Ravosa, Concurrent Professor
David Richter, Concurrent Assistant Professor
Ryan K. Roeder, Professor
Hirotaka Sakaue, Associate Professor
Steven R. Schmid, Professor
James P. Schmiedeler, Professor and Associate Chairman
Michael M. Stanisic, Associate Professor
Alexandros Taflanidis, Concurrent Associate Professor
Flint O. Thomas, Professor
Jian-Xxun Wang, Assistant Professor
Meng Wang, Professor
Patrick Wensing, Assistant Professor
Joannes Westerink, Concurrent Professor
Sangpil Yoon, Assistant Professor
Nicholas Zabaras, Viola D. Hank Professor
Matthew J. Zahr, Assistant Professor
Yanliang Zhang, Assistant Professor
Pinar Zorlutuna, Assistant Professor

Location: 147 Multidisciplinary Research Building
E-mail: bioeng@nd.edu
Web: http://bme.nd.edu

Bioengineering lies at the intersection of the life sciences and the traditional disciplines of chemical, civil, computer, mechanical and electrical engineering.

Bioengineering research at Notre Dame includes biomedical applications, such as regenerative medicine, tissue mechanics, human body motion control, bone fracture repair, orthopaedic devices, micro- and nanoscale diagnostic devices and instrumentation, molecular medicine, medical imaging and image processing algorithms, and bioinformatics. The bioengineering program also includes environmental science research such as biological water treatment, bacteria-mineral interactions and bioremediation.

For specific requirements regarding the course work required, see the program handbook.

The Master of Science

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<td>Total Credits</td>
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<td>Other</td>
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</table>

Students wishing to complete a research master’s degree are required to submit a written thesis. Those wishing to complete a non-research, course work-only program are required to submit a research or design project with a project report.
The master of science degree may be awarded to Ph.D. students who complete the course requirements and pass the written and oral Ph.D. candidacy examination.

### Doctor of Philosophy

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<th>Degree Requirements</th>
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<td><strong>GPA</strong></td>
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<td><strong>Dissertation proposal</strong></td>
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<td><strong>Dissertation proposal defense</strong></td>
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<td><strong>Dissertation defense</strong></td>
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<td><strong>Dissertation submission to Graduate School</strong></td>
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<td><strong>Teaching assistant service</strong></td>
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</table>

The Ph.D. program has been designed to emphasize depth of knowledge in a single traditional engineering discipline, while incorporating additional coursework to provide a strong foundation in the biological sciences.

Students complete a minimum of nine courses (27 credit hours). Degree plans are designed in cooperation with the student’s advisor. The ideal plan of study ensures that the student will receive adequate instruction in both engineering and biological sciences, and also maintain a necessary flexibility in preparing the student for potential career paths.

A zero-credit bioengineering seminar during all semesters in residence, to explore recent advances across the spectrum of bioengineering research. One seminar each semester will be devoted to topics in bioethics with emphasis on contemporary questions in bioethics (e.g., stem cells, human subjects, and the use of animals in research).

### Examinations

After the second semester of residence, each student must pass the comprehensive qualifying examination. The student presents written and oral reports based on literature review and research. These reports, along with performance in courses, in research, and in teaching assistantship duties, constitute the comprehensive evaluation. This allows the faculty to evaluate the student’s grasp of bioengineering fundamentals and his or her ability to perform original, independent research. Students who pass the comprehensive evaluation may continue to the Ph.D. program.

Students normally take the oral candidacy examination before the end of the seventh semester in residence. This examination comprises a written dissertation proposal of research and an oral defense of the dissertation proposal, which may also cover course and research related topics, but is focused on planned research.

### The Master of Science in Chemical Engineering

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<th>Degree Requirements</th>
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<tr>
<td><strong>GPA</strong></td>
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<td><strong>Total Credits</strong></td>
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<td><strong>Other</strong></td>
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<tr>
<td><strong>Candidacy examination</strong></td>
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<tr>
<td><strong>Master’s thesis</strong></td>
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</table>

The department offers programs leading to the degrees master of science in chemical engineering (M.S.Ch.E.) and doctor of philosophy (Ph.D.). The aim of the graduate program is to prepare qualified candidates for research, development, teaching, and other professional careers in chemical and biomolecular engineering. Thus, the Ph.D. program is emphasized.

There is no foreign language requirement for either the M.S. or Ph.D.

All first- and second-year graduate students are assigned teaching assistant duties. These duties consist of holding office hours, conducting recitation sections for lecture courses, supervising laboratory courses, and/or grading homework.

For specific course requirements related to each degree, refer to the program handbook.

### Chemical and Biomolecular Engineering

**Chair:** Edward J. Maginn

**Director of Graduate Studies:** Jason C. Hicks

Telephone: (574) 631-5580
Fax: (574) 631-8366
Location: 182 Fitzpatrick Hall
E-mail: cbe@nd.edu
Web: [http://cbe.nd.edu](http://cbe.nd.edu)

The master of science degree, with thesis, requires 15 credit hours of graduate course work (5 courses) with a minimum 3.0 grade point average, and 15 credit hours of thesis research and graduate seminar. The results of the research are presented as a Master’s thesis and defended in a final oral defense.
A student pursuing the Ph.D. degree will be eligible to receive an M.S. degree after completing five semesters in the Ph.D. program, passing the Ph.D. candidacy exam, and preparing and submitting for publication a research paper in collaboration with the student’s research advisor(s). This paper shall describe work in which the student has a primary (not supporting) role, be submitted to a research journal or to the proceedings of a technical conference, and be subject to peer review.

Full-time students with a background in chemical engineering ordinarily complete these requirements in 16 to 24 months.

### The Doctor of Philosophy

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<tr>
<th>Degree Requirements</th>
<th>GPA</th>
<th>Credits</th>
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<td>60 credits</td>
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<td>Comprehensive evaluation</td>
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<td>Candidacy examination</td>
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<td>Admission to candidacy</td>
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<td>Doctoral dissertation</td>
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The Ph.D. requires 24 credit hours of graduate course work (8 courses) with a minimum 3.25 grade point average, and 36 hours of thesis research and graduate seminar. Students entering with a M.S. degree, earned within five years of admission and from a recognized graduate institution, may transfer up to 24 credit hours, provided that the transferred credits satisfy departmental guidelines for course work distribution and grade point average.

The student is admitted to doctoral candidacy after passing the candidacy examination. This examination, ordinarily completed during the fifth semester in residence, consists of a written and oral presentation of thesis research to the student’s dissertation committee.

After reaching candidacy, the student devotes essentially all efforts to completing his or her thesis research. The results of the research are presented as a Ph.D. dissertation and orally defended before the student’s dissertation committee.

Full-time students normally complete the Ph.D. degree requirements in about five years beyond the bachelor’s degree.

### Tenured and Tenure-Track Faculty

- Basar Bilgicer, Associate Professor
- Paul W. Bohn, Arthur J. Schmitt Professor of Chemical and Biomolecular Engineering
- Merlin L. Bruening, Professor
- Hsueh-Chia Chang, Bayer Corporation Chair of Chemical Engineering
- Patricia Clark, Concurrent Professor
- Thomas F. Degnan, Anthony Early Professor of Energy and the Environment
- Alexander W. Dowling, Assistant Professor
- David Go, Concurrent Professor
- Ruilan Guo, Associate Professor
- Jason C. Hicks, Director of Graduate Studies and Associate Professor
- Davide A. Hill, Associate Professor
- Prashant Kamat, Concurrent Professor
- Jeffrey C. Kantor, Professor
- David T. Leighton Jr., Professor
- Edward J. Maginn, Department Chair and Dorini Family Chair of Energy Studies
- Mark J. McCready, Senior Associate Dean for Research and Graduate Studies and Professor
- Paul J. McGinn, Professor
- Casey P. O’Brien, Assistant Professor
- William A. Phillip, Associate Professor
- Jennifer L. Schaefer, Assistant Professor
- William F. Schneider, H. Clifford and Evelyn A. Brosey Professor of Engineering
- Zachary D. Schultz, Concurrent Assistant Professor
- Matthew J. Webber, Assistant Professor
- Jonathan Whitmer, Assistant Professor
- Jeremiah J. Zartman, Associate Professor

### Civil and Environmental Engineering and Earth Sciences

**Chair:**
Johannes Westerink

**Director of Graduate Studies:**
Diogo Bolster

Telephone: (574) 631-5380
Fax: (574) 631-9236
Location: 156 Fitzpatrick Hall
E-mail: ceees@nd.edu
Web: [http://ceees.nd.edu](http://ceees.nd.edu)
All students participate in the educational mission of the department by serving as teaching assistants for eight hours per week during their first year, four hours per week during their second year, and, for continuing students, four hours per week during one additional semester.

Note: Students admitted under the former program name, Civil Engineering and Geological Sciences (CEGS), will receive their degrees under the CEGS program unless they request a formal change to their program status.

The Master of Science in Civil Engineering, Environmental Engineering, or Earth Sciences

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<th>Degree Requirements</th>
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<td>Other</td>
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<td>Admission to candidacy</td>
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<tr>
<td>Candidacy examinations</td>
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<tr>
<td>Master’s thesis</td>
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</table>

The program in civil and environmental engineering and earth sciences offers a master of science in civil engineering (M.S.C.E.), master of science in environmental engineering (M.S.Env.E.), and master of science in earth sciences (M.S.E.S.).

Students must spend a minimum of two semesters at the University and are expected to complete all degree requirements except defense of the thesis within three semesters. The M.S. degrees require 30 semester credit hours, including at least 16 to 24 credits of formal graduate course work, with the remaining credits earned through research.

An overall grade point average of at least 3.0 must be achieved for graduation.

Although both research and non-research options are available to students seeking a master’s degree, the research option is the preferred and normal route. The non-research option is allowed only in exceptional circumstances.

In the research option, 30 credit hours are required with six to 14 of these credits devoted to thesis research, depending on the program of study developed in conjunction with the department. The research option requires a completed master’s thesis and an oral defense of that thesis. The master’s research is commonly completed by the end of the fourth semester of enrollment.

The Doctor of Philosophy

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<tr>
<td>Doctoral dissertation</td>
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</table>

To earn a Ph.D. in the program, students are expected to devote a minimum of three full academic years to study and research beyond the bachelor’s degree. A total of 72 semester credit hours, with at least 18 credit hours of formal graduate course work, are required for the Ph.D. Students are expected to complete all degree requirements in approximately four years.

Course work requirements are established by a Ph.D. advisory committee assigned to each student. The course selections are in part determined by the student’s area of interest, and students are encouraged to fulfill a portion of the course requirements in related disciplines outside the Department of Civil and Environmental Engineering and Earth Sciences. For specific details regarding course requirements, see the program’s handbook.

Students are required to pass a written examination demonstrating advanced skills in civil and environmental engineering or earth sciences and an oral candidacy examination in the student’s major areas of study. The successful defense and submission of a written dissertation is the final requirement for the Ph.D.

Tenured and Tenure-Track Faculty

Melissa Berke, Assistant Professor
Kyle J. Bibby, Associate Professor and Wanzek Collegiate Chair
Diogo Bolster, Professor and Frank M. Freimann Collegiate Chair in Hydrology and Director of Graduate Studies
Peter C. Burns, Henry J. Massman Jr. Professor
Kenneth Christensen, Professor and the College of Engineering Collegiate Chair in Fluid Mechanics
Paola Crippa, Assistant Professor
Kyle Doudrick, Assistant Professor
Jeremy B. Fein, Professor and Director of the Center for Environmental Science and Technology
Harinda J. Fernando, Wayne and Diana Murdy Professor
Civil and Environmental Engineering and Earth Sciences  ▶  Computer Science and Engineering

Alan Hamlet, Associate Professor
Amy Hixon, Assistant Professor
Ahsan Kareem, Robert M. Moran Professor
Andrew Kennedy, Professor
Kapil Khandelwal, Associate Professor
Tracy Kijewski-Correa, Associate Professor and Leo E. and Patti Ruth Linbeck Collegiate Chair
Yahya C. Kurama, Professor and Associate Chair
George Mavroeidis, Assistant Professor
Marc Francois Muller, Assistant Professor
Clive R. Neal, Professor
Robert Nerenberg, Professor
David Richter, Associate Professor
Joshua D. Shrout, Associate Professor
Antonio Simonetti, Associate Professor
Alexandros A. Taflanidis, Associate Professor and Frank M. Freimann Collegiate Chair in Structural Engineering
Ashley P. Thrall, Myron and Rosemary Noble Associate Professor of Structural Engineering
Na Wei, Assistant Professor
Joannes J. Westerink, Joseph and Nona Ahearn Professor in Computational Science and Engineering and Henry J. Massman Chairman

Computer Science and Engineering

Chair:
Patrick J. Flynn

Director of Graduate Studies:
Jane Cleland-Huang

Telephone: (574) 631-8802
Fax: (574) 631-9260
Location: 326 Cushing Hall
E-mail: cse-grad-info@nd.edu
Web: http://cse.nd.edu

The department offers programs of study and research leading to the degrees of master of science in computer science and engineering (MSCSE) and the doctor of philosophy (Ph.D.).

The Master of Science in Computer Science and Engineering

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<th>Degree Requirements</th>
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<tr>
<td>Other</td>
<td>Candidacy examination</td>
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<td></td>
<td>Master’s thesis</td>
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</table>

The MSCSE program is focused on coursework and results in advanced technical competency in a focused area of computer science. Students in the master’s program take 24 credits of courses, and complete a two-semester project or thesis. The student must successfully pass an oral thesis defense examination prior to the formal submission of the master’s thesis.

A full-time student can complete these requirements in three regular academic semesters plus the summer, although the majority of students take four semesters.

The Doctor of Philosophy

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<td>Candidacy examination</td>
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<tr>
<td></td>
<td>Doctoral dissertation</td>
</tr>
</tbody>
</table>

The Ph.D. program is focused on research and leads to a research career in the academy, industry, or government. Students in the Ph.D. program are generally supported as a research or teaching assistant, take classes part-time, and focus on research under the supervision of a faculty advisor. The Ph.D. program is open to students holding either a B.S. or M.S. degree.

Doctoral students holding a master of science degree are normally required to accumulate a minimum of 12 course credits beyond the previous degree. Students are encouraged to pursue course work outside the department whenever such studies support their program in the major field. For additional details regarding course requirements, see the program’s handbook.

Students must pass the Ph.D. qualifying examination in the second spring semester after entering the program.

The candidacy examination, consisting of both written and oral exams, takes place after the completion of the formal course work. After passing the Ph.D. candidacy, the student devotes essentially all efforts to completing his or her dissertation research, culminating in the successful defense and submission of the doctoral dissertation.

The doctoral program normally requires four to five years of full-time work.
ELECTRICAL ENGINEERING

Chair:  
Gregory Snider

Director of Graduate Studies:  
J. Nicholas Laneman

Telephone: (574) 631-5480  
Fax: (574) 631-4393  
Location: 275 Fitzpatrick Hall  
E-mail: eegrad@nd.edu  
Web: http://ee.nd.edu

The program in electrical engineering offers programs leading to the master of science in electrical engineering (M.S.E.E.) and the doctor of philosophy (Ph.D.).

The Master of Science in Electrical Engineering

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

To continue to the Ph.D. program, students must pass the qualifying exam and secure support from a faculty advisor before the start of their third semester. Doctoral students must accumulate a minimum of 36 course credits beyond the B.S. degree, pass the qualifying and candidacy examinations, spend at least two years in resident study, and write and defend a Ph.D. dissertation.

Tenured and Tenure-Track Faculty

Panos Antsaklis, H. C. and E. A. Brosey Professor of Electrical Engineering
Peter Bauer, Professor

Yiyu Shi, Associate Professor  
Aaron Striegel, Professor  
Douglas Thain, Professor and Associate Department Chair  
Chaoli Wang, Associate Professor  
Dong Wang, Assistant Professor  
Timothy Weninger, Assistant Professor

A research master of science in electrical engineering (M.S.E.E.) requires 30 credit hours beyond the bachelor of science, with at least six credit hours coming from thesis research. A research master’s degree also requires the completion and defense of a master’s thesis.

A non-research M.S.E.E. requires 30 credit hours of course work. All students must take a written qualifying examination at the end of their second semester of graduate study; successful completion of the exam is required to receive a master’s degree.

The Doctor of Philosophy

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<tr>
<th>Degree Requirements</th>
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<tr>
<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

To continue to the Ph.D. program, students must pass the qualifying exam and secure support from a faculty advisor before the start of their third semester. Doctoral students must accumulate a minimum of 36 course credits beyond the B.S. degree, pass the qualifying and candidacy examinations, spend at least two years in resident study, and write and defend a Ph.D. dissertation.

Tenured and Tenure-Track Faculty

Panos Antsaklis, H. C. and E. A. Brosey Professor of Electrical Engineering
Peter Bauer, Professor

Richard E. Billo, Professor and Associate Vice President for Research
Kevin Bowyer, Schubmehl-Prein Professor, and Concurrent Professor of Electrical Engineering
Nitesh V. Chawla, Frank M. Freimann Collegiate Professor
Danny Z. Chen, Professor
David Chiang, Associate Professor
Jane Cleland-Huang, Professor and Director of Graduate Studies
Adam Czajka, Assistant Professor
Patrick J. Flynn, Professor and Department Chair, and Duda Family Professor of Engineering
Xiaobo Sharon Hu, Professor
Meng Jiang, Assistant Professor
Siddharth Joshi, Assistant Professor
Taeho Jung, Assistant Professor
Peter M. Kogge, the Ted H. McCourtney Professor of Computer Science and Engineering and Concurrent Professor of Electrical Engineering
Gregory Madey, Research Professor
Collin McMillan, Associate Professor
Ron Metoyer, Associate Professor and Assistant Dean of Diversity and Special Initiatives for the College of Engineering
Tijana Milenkovic, Associate Professor
Michael Niemier, Associate Professor
Christian Poellabauer, Associate Professor
Walter Scheirer, Assistant Professor
Gary Bernstein, Frank M. Freimann  
Professor of Electrical Engineering  
David Burghoff, Assistant Professor  
Jonathan Chisum, Assistant Professor  
Suman Datta, Stinson Professor of Nanotechnology  
Patrick Fay, Professor  
Thomas E. Fuja, Interim Dean of the College of Engineering and Professor  
Vijay Gupta, Professor  
Martin Haenggi, Frank M. Freimann Professor of Electrical Engineering  
Douglas Hall, Associate Professor  
Christopher Hinkle, Bettex Collegiate Chair and Associate Professor  
Bertrand Hochwald, Frank M. Freimann Professor of Electrical Engineering  
Anthony Hoffman, Associate Professor  
Scott Howard, Associate Professor  
Yih-Fang Huang, Senior Associate Dean for Education & Undergraduate Programs and Professor  
J. Nicholas Laneman, Associate Chair for Graduate Studies and Professor  
Michael Lemmon, Professor  
Craig Lent, Frank M. Freimann Professor of Electrical Engineering  
Hai Lin, Professor  
Lei Liu, Associate Professor  
Christine Maziar, Vice President and Senior Associate Provost of the University and Professor of Electrical Engineering  
Thomas O’Sullivan, Assistant Professor  
Wolfgang Porod, Frank M. Freimann Professor of Electrical Engineering  
Ken Sauer, Associate Professor  
Alan Seabaugh, Frank M. Freimann Chair Professor of Electrical Engineering  
Roxana Smarandache, Professor of Mathematics and Electrical Engineering  
Gregory Snider, Department Chair and Professor  
Robert Stevenson, Associate Chair for Undergraduate Studies and Professor  
Gregory Timp, Kough-Hesburgh Chair in Electrical Engineering and Biological Sciences  

also be a candidate for the juris doctor degree in the Notre Dame Law School. The master’s of engineering program is not available as an individual degree program.

To be awarded both degrees, the candidate must complete a minimum of 99 credit hours, 75 in law and 24 in the engineering program. The engineering degree awarded will be the master of engineering with a concentration in one of the engineering disciplines offered in Notre Dame’s division of engineering. The course work-only master’s program requires the completion of 24 credit hours of engineering, mathematics, or science courses acceptable to the appropriate engineering department; six credit hours of appropriate law courses; and a master’s examination.

Courses for the M.Eng. will be chosen in consultation with an advisor in the student’s engineering department. The recommended distribution of engineering courses in the Law School curriculum is one each semester during the first and third years of study and two each semester during the second year.

Notre Dame law students interested in obtaining the dual degree in engineering should contact the Graduate School’s Office of Graduate Admissions for more information.

### Degree Requirements

<table>
<thead>
<tr>
<th>GPA Credits</th>
<th>75 credits (law)</th>
<th>24 credits (STEM)</th>
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<tr>
<td>Total Credits</td>
<td>99 credits</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Must be candidate for the juris doctor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Admission to master’s candidacy</td>
<td></td>
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<tr>
<td></td>
<td>Master’s examination</td>
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</tbody>
</table>

The dual degree program in engineering and law is designed for law students who are interested in pursuing careers in areas such as patent, environmental, telecommunications, or similar law specialties. To be eligible for the master of engineering degree, the candidate must have a B.S. in an A.B.E.T. accredited engineering or computer science program and must...
The Division of Humanities

Art, Art History, and Design

Chair:
Richard Gray

Director of Graduate Studies:
Maria Tomasula

Telephone: (574) 631-7602
Fax: (574) 631-6312
Location: 306 Riley Hall
E-mail: art@nd.edu
Web site: http://artdept.nd.edu

The program in Art, Art History, and Design offers the master of fine arts (M.F.A.) degree in studio art and design. In studio art and design, the department also awards the M.A. degree, but only to students who are not accepted to degree candidacy in the M.F.A. program.

Art studio and design students may concentrate in ceramics, visual communication design, industrial design, painting, photography, printmaking, and sculpture, or in a combination of these disciplines. In addition to specific courses, graduate students may pursue an area of interest through a system of independent study with a faculty advisor and a graduate committee selected by the student. M.F.A. students are expected to develop a personal direction that culminates in a professional exhibition of visual work.

The Master of Fine Arts: Studio Art and Design

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<tr>
<th>Degree Requirements</th>
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<tbody>
<tr>
<td>GPA Credits</td>
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<tr>
<td>30 credits</td>
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<tr>
<td>Total Credits</td>
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<tr>
<td>60 credits</td>
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<td>Other</td>
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<tr>
<td>Admission to candidacy</td>
</tr>
<tr>
<td>Written thesis</td>
</tr>
<tr>
<td>Exhibition of creative work</td>
</tr>
</tbody>
</table>

The M.F.A. at Notre Dame is for artists and designers with exceptional talent and strong academic skills. The program combines studio work with academic studies in art and design history and criticism. The College Art Association and most other professional institutions of higher education recognize the M.F.A. as the terminal degree for artists and designers. This degree has become the standard prerequisite for those who intend to teach at the college level. It is also appropriate for individuals seeking to further develop their professional careers as artists and designers.

The M.F.A. degree is a studio and research degree that requires three years or six semesters of study and 60 graduate credit hours with a B (3.0) or better average. Progress in the fine arts program is dependent upon admission to M.F.A. candidacy, the successful completion of a written thesis approved by the student’s thesis committee, and the completion of a thesis project — an exhibition of creative work that is approved by the entire art and design faculty.

For additional residency, course and seminar requirements, consult the program’s handbook.

The Master of Arts: Art History

<table>
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<tr>
<th>Degree Requirements</th>
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<tbody>
<tr>
<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>40 credits</td>
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<tr>
<td>Other</td>
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<tr>
<td>Admission to candidacy</td>
</tr>
<tr>
<td>Written thesis</td>
</tr>
<tr>
<td>Thesis presentation at spring symposium</td>
</tr>
<tr>
<td>Foreign language requirement</td>
</tr>
</tbody>
</table>

Note: The department is not admitting new students to the art history program at this time. This material is retained for students currently finishing the program.

The M.A. prepares the student for more advanced graduate work by providing him or her with the opportunity to solidify general and specialized art historical knowledge and to hone research skills. The degree may also serve as a foundation for employment or further study in fields such as museology, visual image management, and art dealing and investment. The M.A.
in art history is not a terminal degree. A doctorate is normally required to teach at the collegiate level.

The M.A. in art history requires the completion of 36 credit hours of graduate study, including six credit hours of thesis research, with a B (3.0) or better average. Progress in the art history program is dependent upon the successful completion of a written thesis, which will be presented at the art history graduate symposium in the spring of the student’s second year, and evidence of reading ability in one foreign language, either German, French, or another language approved by the graduate advisor. Reading ability is normally demonstrated by obtaining a passing grade on the appropriate Graduate Reading Examination administered by the University. This requirement must be fulfilled during the first year of graduate study.

For additional residency, course and seminar requirements, consult the program’s handbook.

The Master of Arts: Studio Art and Design

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<th>Degree Requirements</th>
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<tr>
<td>GPA Credits</td>
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<tr>
<td>Total Credits</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

The non-research master of arts degree (M.A.) program in studio art and design is granted to M.F.A. students who either are not admitted to M.F.A. candidacy or choose to leave the M.F.A. program with an M.A. degree. The department does not regularly admit students to this program. The non-research M.A. degree requires 40 graduate credits.

For additional residency, course and seminar requirements, consult the program’s handbook.

### Classics

Chair:
Luca Grillo

Director of Graduate Studies:
David Hernandez

Telephone: (574) 631-7195
Fax: (574) 631-2153
Location: 304 O’Shaughnessy
Email: classics@nd.edu
Web: [http://classics.nd.edu/](http://classics.nd.edu/)

The Master of Arts

<table>
<thead>
<tr>
<th>Degree Requirements</th>
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<td>Other</td>
<td>Admission to candidacy</td>
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<tr>
<td>Ancient language requirements</td>
<td></td>
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<tr>
<td>Modern language requirement</td>
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<tr>
<td>Comprehensive examinations or a written thesis</td>
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</table>

Students must complete 36 credits over two years in the master of arts program. The curriculum is well-defined, but includes room for adjustment based on students’ individual needs and interests. The details of any particular student’s coursework will depend on the director of graduate studies in consultation with the graduate committee.

Students can choose from several areas of emphasis, including language and literature, history, late antiquity, and philosophy.

In addition to completing all course requirements, students will be expect-
ed to read a list of texts in preparation for their examinations and for further study in the field of classics. This reading list will be compiled with a view to the needs and interests of individual students by the director of graduate studies and the graduate committee.

Examinations
Students will be required to take examinations in Greek and Latin translation at the beginning of their fourth semester, with the possibility of taking the exam again in the spring. The exam will be based on a standard reading list of core texts, plus supplemental texts chosen by each individual student.

Since German, French and Italian are of major importance for research, all students will be required to demonstrate reading proficiency in one of these languages by passing an appropriate examination.

Students choosing not to write a thesis will be required to take a comprehensive written and oral examination at the end of the fourth semester. Unlike the Greek and Latin examinations, the comprehensive examination will focus on broad topics pertaining to classical history, literature, and culture.

Thesis
With program permission, students will have the option of writing a final master’s thesis in a 3-credit or 6-credit version. Students intending to go on to a Ph.D. program are advised to exercise this option.

Students writing a thesis are not required to take the comprehensive examination.

Tenured and Tenure-Track Faculty
Christopher A. Baron, Associate Professor
W. Martin Bloomer, Professor of Classics
Luco Grillo, Associate Professor of Classics and Chair
David Hernandez, Associate Professor of Classics and Director of Graduate Studies
Brian Krostenko, Associate Professor of Classics
Blake Leyerle, Associate Professor of Theology
Elizabeth Forbis Mazurek, Associate Professor of Classics
Hildegund Müller, Associate Professor of Classics
David O’Connor, Professor of Philosophy
Gretchen Reydams-Schils, Professor, Program of Liberal Studies
Robin Rhodes, Associate Professor of Art History
Catherine Schlegel, Associate Professor of Classics
Christopher Shields, George N. Shuster Professor of Philosophy
Aldo Tagliabue, Assistant Professor of Classics

Early Christian Studies

Chairs:
Luca Grillo (Classics)
Timothy Matovina (Theology)

Director of Graduate Studies:
Hildegund Müller (Classics)

Telephone: (574) 631-7195
Fax: (574) 631-2153
Location: 304 O’Shaughnessy
Email: classics@nd.edu
Web: http://classics.nd.edu

The Master of Arts

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<th>Degree Requirements</th>
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The two-year interdisciplinary M.A. program in early Christian studies is sponsored jointly by the Departments of Classics and Theology, with the participation of faculty in several other departments. It offers beginning graduate students basic training designed to help them gain success in the best doctoral programs in theology, religious studies, classics, history, art history, and literary studies. In addition to providing various opportunities for those already proficient in language study, it also offers basic training in
the multiple fields of early Christian studies.

Students are expected to finish 42 credits of coursework to complete the program. Each student develops a curriculum to meet individual needs in consultation with the director of graduate studies and other faculty advisors. But all curricula are designed to ensure that students are equipped with the necessary language skills (at least two ancient Christian languages and literatures [Latin and/or Greek and/or Syriac, etc.] and one or more contemporary research languages) and with a sturdy grasp of the intellectual, historical, and social contexts of the early church and the methods and resources for studying them.

New disciplinary and critical approaches to late antiquity, as well as a growing awareness of the importance of Christian origins for the present life of the churches, have made early Christian studies a vibrant and rapidly expanding field. Traditional expertise in philology, history, and theology remains fundamental, but these skills must now be supplemented by a broad range of interdisciplinary approaches. An unusually strong faculty presence makes Notre Dame the ideal place for pursuing this area. Students who come with a keen interest in the field, but limited formal training in it, may acquire the basic skills and knowledge necessary for advanced study. Those already adequately prepared in the basics can broaden their competency by studying the language and culture of Middle Eastern, Egyptian, and Byzantine Christianity, and of Rabbinic Judaism and early Islam.

Tenured and Tenure-Track Faculty

Khaled Anatolios, The John A. O’Brien Professor of Theology

Christopher Baron, Associate Professor of Classics

W. Martin Bloomer, Professor of Classics

John C. Cavadini, Professor of Theology, and Executive Director of the Institute for Church Life

Brian E. Daley, S.J., The Catherine F. Huisking Professor of Theology

Nathan Eubank, Associate Professor of Theology

John T. Fitzgerald, Professor of New Testament and Early Christianity

Nina Glibetić, Assistant Professor of Theology

Robin M. Jensen, The Patrick O’Brien Professor of Theology

Maxwell E. Johnson, Professor of Theology

Mary M. Keys, Associate Professor of Political Science

Brian Krostenko, Associate Professor of Classics

Blake Leyerle, The John Cardinal O’Hara, C.S.C., Associate Professor of Theology, and Concurrent Associate Professor of Classics

David Lincicum, The Rev. John A. O’Brien Associate Professor of Theology

John P. Meier, The William K. Warren Professor of Catholic Theology, Emeritus

Hildegund Müller, Associate Professor of Classics, and Director of Graduate Studies

David K. O’Connor, Professor of Philosophy and Concurrent Professor of Classics

Gretchen J. Reydams-Schils, Professor in the Program of Liberal Studies and Concurrent Professor of Classics

Aldo Tagliabue, Assistant Professor of Classics

Alexis Torrance, The Archbishop Demetrios Assistant Professor of Byzantine Theology

Additional Associated Faculty

Adam Bremer-McCollum, Visiting Associate Special Professional Faculty, Theology

ENGLISH

Chair:
Jesse M. Lander

Director of Graduate Studies:
Kate Marshall

Director of Creative Writing:
Johannes Göransson

English
Telephone: (574) 631-7226
Fax: (574) 631-4795
Location: 356 O’Shaughnessy
E-mail: english@nd.edu
Web: http://english.nd.edu

Creative Writing
Telephone: (574) 631-7526
Fax: (574) 631-4795
Location: 340 O’Shaughnessy
E-mail: creativewriting@nd.edu
Web: http://creative-writing.nd.edu
The Master of Arts: English and American Literature

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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<tr>
<td>Other</td>
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The master of arts (M.A.) program is designed chiefly to prepare students for advanced humanistic work in and beyond the academy.

There are two options for the M.A. degree: non-research or research. For the non-research M.A., students must take at least 11 literature courses (33 credit hours) and one exam-reading course for the non-research degree. For the research M.A., students are required to take at least 10 literature courses (30 credit hours) and 6 credit hours of thesis research.

The Master of Fine Arts: Creative Writing

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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</table>

The graduate creative writing program is a four-semester program in which students take 36 credit hours of writing workshops, thesis preparation tutorials, and literature classes. Students may also choose to work as editorial assistants on our national literary magazine, *The Notre Dame Review*, and the international press, Action Books.

Throughout the four semesters, all students work closely with an advisor on the thesis, which will ultimately be a publishable novel, collection of stories, volume of poetry, or work of literary nonfiction.

The Doctor of Philosophy

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<th>Degree Requirements</th>
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<tr>
<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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</table>

The Ph.D. program requires 42 credit hours of coursework. Students must take the Introduction to Graduate Study, a historical distribution of courses, and at least one course in literary theory. In keeping with its policy of encouraging interdisciplinary study, the program permits the student to take up to 12 credit hours of coursework in a field other than English.

Foreign Language Requirement

By the end of the second year of full-time residency, the student must demonstrate proficiency in two languages or fluency in one language. Proficiency is demonstrated by successfully passing a language exam administered by the appropriate language department, or by passing an advanced undergraduate literature course in the language. Fluency is demonstrated by passing a graduate literature course in the language. The language(s) should be appropriate to the student’s area of research.

Candidacy (Comprehensive Three-Field) Examinations

The student takes examinations in one historical period selected from among Old English, Middle English, Renaissance, Restoration and 18th-century, 19th-century British, 20th-century British, early American literature (to 1865), middle American literature from the Civil War to 1930, and post-1930 American literature. The student takes examinations, both oral and written, in one historical period by the end of their fifth semester in the program.

Dissertation Proposal

By the end of their sixth semester, students produce a dissertation prospectus and preliminary draft of one part of the dissertation (a chapter or substantial part of a chapter). Students then meet with the dissertation
committee for advice on continuing and completing the project.

**Tenured and Tenure-Track Faculty**

Christopher Abram, Associate Professor
James M. Collins, Professor of Film, Television, and Theatre and Concurrent Professor of English
Nan Da, Assistant Professor
Margaret Doody, John and Barbara Glynn Family Professor of Literature
John Duffy, Associate Professor and Director, University Writing Center and College Seminar Program
Stephen M. Fallon, Cavanaugh Professor of Humanities and Professor of English
Christopher Fox, Professor of English
Stephen A. Fredman, Professor Emeritus
Johannes Göransson, Director of Graduate Studies (Creative Writing) and Associate Professor
Barbara J. Green, Associate Professor
Stuart Greene, Associate Professor
Sandra Gustafson, Professor
Susan Cannon Harris, Associate Professor
Peter Holland, McMeel Professor in Shakespeare Studies in the Department of Film, Television and Theatre, and Concurrent Professor in English
Romana Huk, Associate Professor
Cyraina Johnson-Roullier, Associate Professor
Michelle Karnes, Associate Professor
Kathryn Kerby-Fulton, Notre Dame Professor of English, Emeritus
Declan Kiberd, Donald and Marilyn Keough Professor of Irish Studies
Laura Knoppers, George N. Shuster Professor of English Literature
Greg P. Kucich, Professor
Jesse M. Lander, Chair and Associate Professor
Jose Limon, Notre Dame Professor of American Literature, Emeritus
Sara Maurer, Associate Professor
Tim Machan, Professor
Kate Marshall, Associate Professor and Director of Graduate Studies
Barry McCrea, Donald R. Keough Professor of Irish Studies
Joyelle McSweeney, Professor
Orlando Menes, Professor
Susannah Monta, Associate Professor
Ernest Morrell, Coyle Professor in Literacy Education
Ian Newman, Assistant Professor
William A. O’Rourke, Professor Emeritus
Sarah Quesada, Assistant Professor
Francisco Robles, Assistant Professor
Mark Sanders, Professor
Valerie Sayers, William R. Kenan Jr. Professor of English
Roy Scranton, Assistant Professor
John Sitter, Mary Lee Duda Professor of Literature
Yasmin Solomonescu, Assistant Professor
David Wayne Thomas, Associate Professor
Steve Tomasula, Professor
Azareen Van der Vliet Oloomi, Assistant Professor
Chris R. Vanden Bossche, Professor Emeritus
Elliott Visconsi, Associate Professor, Concurrent Associate Professor of Law, and Chief Academic Digital Officer
Laura Dassow Walls, William P. and Hazel B. White Professor of English
Henry Weinfeld, Professor of Liberal Studies and Concurrent Professor of English
Matthew Wilkens, Associate Professor

**History**

Chair:
Jon T. Coleman

Director of Graduate Studies:
Darren Dochuk

Telephone: (574) 631-7266
Fax: (574) 631-4717
Location: 219 O’Shaughnessy Hall
E-mail: histdgs@nd.edu
Web: [http://history.nd.edu](http://history.nd.edu)

The graduate program in history accepts only students planning to pursue the Ph.D. degree. Before completing their doctorates, students must satisfy
the departmental requirements for the master's degree.

See the program handbook for specific details regarding coursework and language requirements in each field.

**The Master of Arts**

<table>
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<tr>
<th>Degree Requirements</th>
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<tbody>
<tr>
<td><strong>GPA Credits</strong></td>
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<tr>
<td><strong>Total Credits</strong></td>
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<tr>
<td><strong>Other</strong></td>
</tr>
<tr>
<td>Foreign language requirement</td>
</tr>
<tr>
<td>Qualifying examinations</td>
</tr>
<tr>
<td>Oral examinations</td>
</tr>
<tr>
<td>Teaching or research assistant service</td>
</tr>
</tbody>
</table>

Students may receive a master of arts after completing 36 credit hours of study, including one graduate-level seminar in history and 24 credit hours of graduate-level work (seminars, colloquia, directed readings, supplemental research, and readings) in history or related disciplines. The master's degree demands satisfactory completion of coursework with a GPA of no less than 3.0, and students must demonstrate a reading knowledge of one modern foreign language by the end of their third semester in residence.

Students will normally receive their master's degree upon successful completion of their Ph.D. candidacy examinations.

**Master's Examinations**

The master's examination is normally the equivalent of two qualifying exam fields in the normal format—a written examination in each field, followed by an oral exam. There must be a gap of at least five working days between the final written exam and the oral exam.

Students entering Notre Dame with a master's degree in history from another institution normally have the same coursework, writing, and examination requirements as those entering without such a degree. Normally, no more than three credits may be transferred and used to replace required courses in history.

See the program handbook for specific details on the coursework and language requirements of each field.

**The Doctor of Philosophy**

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<th>Degree Requirements</th>
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<td><strong>GPA Credits</strong></td>
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<td><strong>Other</strong></td>
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<td>Admission to candidacy</td>
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<td>Foreign language requirement</td>
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<td>Candidacy examinations</td>
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<td>Doctoral dissertation</td>
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To receive a Ph.D., a student must complete a total of 36 letter-graded credit hours of study, including at least two graduate-level seminars.

In addition to completing prescribed coursework, doctoral students must also pass Ph.D. candidacy examinations in their specialties, normally taken in the student's third year of residence. Students wishing to take candidacy examinations earlier than the third year of residence may do so with the consent of their academic advisors and the director of graduate studies.

Before advancing to Ph.D. candidacy, students must submit to the department an approved dissertation proposal (see procedures outlined in the program handbook). Within eight years of enrollment into the history graduate program, students must complete a satisfactory doctoral dissertation or risk the loss of their candidacy status.

**Tenured and Tenure-Track Faculty**

R. Scott Appleby, Dean of the Keough School of Global Affairs and Professor

Edward N. Beatty, Associate Dean of Academic Affairs, Keough School of Global Affairs; Professor of History; and Faculty Fellow, Kellogg Institute for International Affairs

Gail Bederman, Associate Professor

Alexander Beihammer, Associate Professor

Liang Cai, Assistant Professor

Mariana Candido, Associate Professor

Jon T. Coleman, Department Chair and Professor

Kathleen Cummings, Associate Professor

John Deak, Associate Professor

Darren Dochuk, Director of Graduate Studies and Associate Professor

Felipe Fernández-Armesto, William P. Reynolds Professor

Karen Graubart, Associate Professor
The master of arts is not a terminal degree, although individuals concurrently enrolled in other doctoral graduate programs of the University may seek to earn a non-research HPS master’s degree in order to complement their doctoral studies. Students whose primary enrollment is in HPS will be entitled to receive a master’s degree once they have completed the written and oral examination for Ph.D. candidacy.

The Non-Research M.A.

The non-research HPS M.A. degree requires the completion of 36 credit hours of coursework. At least two courses in history of science and at least two courses in philosophy of science (two of which must be chosen from our core courses) form the core of this requirement. The student, in consultation with the HPS program director, selects the remaining courses. To be eligible for HPS credit, these courses must bear in significant ways on the concerns of history and philosophy of science. Students taking the non-research HPS M.A. concurrently with a Ph.D. in another Notre Dame
program may count up to nine hours of coursework toward both degree programs, subject to approval by the director of HPS and the director of graduate studies in the other program.

Reading knowledge in one foreign language (ordinarily French or German) is required. A one-hour oral comprehensive examination completes the requirements for this research M.A. degree.

A one-hour oral examination, based on coursework, completes the requirements for the non-research M.A. degree.

### The Research M.A.

In the event that an admitted HPS student decides to leave the program or is subsequently discontinued by the HPS program or the disciplinary department, the student may pursue a research (or thesis) terminal M.A. degree.

Students taking the terminal HPS research M.A. will prepare an extended research paper or formal M.A. thesis under the direction of a faculty member, for which six hours of thesis credit will be awarded. A one-hour oral comprehensive examination completes the requirements for this research M.A. degree.

### The Doctor of Philosophy

HPS students pursue the Ph.D. degree in one of three tracks: the history track, the philosophy track, and the theology and science track. Students on all three tracks must undergo a review at the end of their second year, in order to be admitted to the third year of the program. Students who fail to pass that review will normally be awarded an M.A. in HPS. Full details of the review are in the program handbook.

#### History Track

Those who elect the history track toward the Ph.D. in history and philosophy of science must satisfy a required course distribution as defined by the program. For specific course requirements, consult the program handbook.

The basic language requirement for Ph.D. candidates on the history track is a reading knowledge of two foreign languages relevant to the student’s research, whether ancient or modern. With the permission of the student’s advisor and the program director, one language competence may be replaced by proficiency in a technical discipline bearing on the student’s research work, such as one of the natural sciences.

In the spring of the second year, the student will prepare for the Ph.D. candidacy examination: three fields, each consisting of two parts, written and oral, which will be taken at the end of the spring of the second year and at the beginning of the fall of the third year.

Full details of the history track requirements are laid out in the program handbook.

#### Philosophy Track

Those who elect the philosophy track toward the Ph.D. in history and philosophy of science must satisfy a required course distribution as defined by the program. For specific course requirements, consult the program handbook.

The language requirement for Ph.D. candidates in the philosophy track is a reading knowledge of two foreign languages. With the permission of the student’s advisor and the program director, both language competences may be replaced by proficiency in a technical discipline bearing on the student’s research work, such as one of the natural sciences.

Directly after fall break in the student’s third year, the student must submit two qualifying papers. Directly after spring break in that same year, the student will take an oral qualifying examination in the philosophy of science, with a special focus on the problem area in which he or she intends to write a dissertation.

Full details of the philosophy track requirements are laid out in the program handbook.

#### Theology and Science Track

Those who elect the theology and science track toward the Ph.D. in history and philosophy of science must satisfy a required course distribution as defined by the program. For specific course requirements, consult the program handbook.

Ph.D. candidates on the theology and science track fulfill the foreign language requirements required by the Theology Department.

The written and oral candidacy examinations are usually taken in the sixth semester of the program. Successful completion of the written examinations is required for admission to the oral examination.
Full details of theology track requirements are laid out in the program handbook.

**Dissertation Proposal**
Once Ph.D. candidacy requirements have been completed, the student will begin preparation of a dissertation proposal under the guidance of a research director of his or her choice. The HPS program requires that the proposal defense to occur earlier than the typical Graduate School deadline of the end of the eighth semester; refer to the program handbook for details specific to each track.

**Tenured and Tenure-Track Faculty**
J. Matthew Ashley, Associate Professor of Theology
Francesca Bordogna, Associate Professor in the Program of Liberal Studies
Jon Coleman, Professor and Chair of History
Tarek Dika, Assistant Professor in the Program of Liberal Studies
Celia Deane-Drummond, Professor of Theology
Christopher Fox, Professor of English
Robert D. Goulding, Director of the History and Philosophy of Science program and Associate Professor in the Program of Liberal Studies
Christopher S. Hamlin, Professor of History
Don A. Howard, Professor of Philosophy
Janet Kourany, Associate Professor of Philosophy
Katharaina Kraus, Assistant Professor of Philosophy
Kate Marshall, Assistant Professor of English
Philip E. Mirowski, the Carl E. Koch Professor of Economics and Policy Studies and the History and Philosophy of Science
Evan Ragland, Assistant Professor of History
Hannah Rubin, Assistant Professor of Philosophy
Kristin Shrader-Frechette, the O’Neill Family Professor of Philosophy, Concurrent Professor of Biological Sciences
Thomas A. Stapleford, Associate Professor and Chair in the Program of Liberal Studies
Nicholas Teh, Assistant Professor of Philosophy
Laura Dassow Walls, William P. and Hazel B. White Professor of English

**Associated Faculty**
Anna Geltzer, Assistant Director of the History and Philosophy of Science program
Jay Malone, Executive Director of the History of Science Society

**The Doctor of Philosophy**

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<td></td>
<td>Candidacy examination</td>
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<td></td>
<td>Doctoral dissertation</td>
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The Ph.D. in Italian is a highly selective program that teaches and trains students working in the field of Italian Studies. The program offers a flexible curriculum tailored to each student’s interests and background that leads to a new dissertation-oriented program of study designed to achieve both a high degree of specialization and a broad understanding of Italian literature and culture. Although students in the Ph.D. in Italian mainly work on Italian questions, they enrich their area of specialization by following three courses in a single field allied to their primary research interests, such as history, film studies, cultural anthropology, medieval studies, philosophy, theology, Romance philology, critical
theory, art history, etc. In addition, students attend the Italian Seminar, which functions as a ‘core course’ for the degree; the ‘language pedagogy’ course; and a course on literary and/or critical theory.

At least 60 credit hours, or a minimum of 30 credit hours beyond a previously awarded master’s degree, are required for the Ph.D. These credit hours are earned through a combination of coursework and/or research.

For additional coursework requirements, consult the program’s handbook.

**Tenured and Tenure-Track Faculty**

Thomas F. Anderson, Professor of Spanish, and Chair, Department Romance Languages and Literatures

Zygmunt G. Barański, Notre Dame Professor of Dante and Italian Studies

Theodore J. Cachey Jr., Professor of Italian, Albert J. Ravarino Family Director of Dante and Italian Studies

Sabrina Ferri, Associate Professor of Italian

Charles L. Leavitt IV, Assistant Professor of Italian Studies

Christian Moevs, Associate Professor of Italian

During their time of coursework before taking exams, students are required to enroll in the year-long course (1.5 credits per semester) “Learning the Profession.” Students may opt to take this course on an S/U basis, in which case the credits earned will not count towards the 51 credits of coursework required by the program. For additional coursework requirements, consult the program’s handbook.

**Languages**

All students in the Ph.D. in Literature Program are expected to be able to read and conduct research in at least two languages besides their own native language.

Students are minimally required to demonstrate near-native proficiency in the language of their major area of study and a scholarly reading knowledge in an additional language. The language skills required will vary according to the individualized program of study. Language requirements are designed to provide a rigorous base for in-depth study of two or more literary traditions and to ensure that students will successfully compete for placement in national literature departments as well as interdisciplinary programs.

**Examinations**

The Graduate School requires all doctoral candidates to complete their Ph. D. candidacy exam and dissertation proposal defense by the end of their fourth year of study. This deadline, however, represents nothing more than the utmost limit of acceptability. Students in the Ph.D. in Literature Program are strongly advised to organize and structure their coursework in a manner that permits them to sit for the candidacy exam and dissertation proposal defense in their third year.

**The Doctor of Philosophy**

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<tr>
<th>Degree Requirements</th>
<th>GPA</th>
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<tr>
<td>Credits</td>
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</table>

| Total Credits       | 60   |
| Other               | Adm. to candidacy |
|                     | Foreign language requirement |
|                     | Candidacy examination |
|                     | Doctoral dissertation |

*Note: The Ph.D. in Literature program is no longer accepting new students. This material is retained for students currently finishing the program.*

The Ph.D. in Literature offers an innovative academic framework for the formation of future scholar-teachers in both the classical and modern languages and literatures. The program requires its students to complete a minimum of 51 credit hours from regular graduate courses. Students who have obtained credits for graduate courses taken after their undergraduate degree and prior to entering the program may be allowed to transfer a maximum of 6 credit hours. Students who have completed an M.A. before entering the program may be allowed to transfer a maximum of 24 credit hours. The transfer of credit hours is not automatic and requires the approval of the program’s director and the Graduate School.
The Medieval Institute offers a doctor of philosophy degree in medieval studies. After two years of coursework, and completion of examinations in the third year, students earn a master of medieval studies (hereafter M.M.S.) degree and may be approved for further work towards the Ph.D. The Institute does not accept candidates for a terminal master’s degree.

### The Master of Medieval Studies

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<th>GPA Credits</th>
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<tr>
<td>Medieval research language requirement</td>
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</table>

### Language Requirements

The programs of the Medieval Institute are rigorous and interdisciplinary, and make high demands in terms of language skills.

Each student must pass a written exam in her/his primary medieval research language (Latin, Greek, or Arabic) before the end of the second year of study. This exam must be passed by the end of the fourth semester in order for a student to continue in the program.

A student should plan to take the exam in his/her medieval research language every semester until it is passed.

Students must pass written exams in two modern languages before taking their comprehensive exams in the third year (i.e., by the end of the fifth semester).

### Coursework

Consult the Medieval Institute Graduate Handbook relevant to your year of matriculation for specific program details regarding course and credit requirements, electives and academic milestones.

Students who enter the program with a completed M.A. degree may petition the DGS to transfer up to two courses (six credits) from their M.A. program. Transferring credits allows more flexibility in our program and can slightly accelerate a student’s progress.

### The Doctor of Philosophy

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<tr>
<th>GPA Credits</th>
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<td>Candidacy examinations</td>
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<tr>
<td>Doctoral dissertation</td>
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The Ph.D. requires satisfactory completion of the master of medieval studies outlined above, successful completion of five written Ph.D. candidacy examinations, one oral Ph.D. candidacy examination, presentation of a dissertation proposal, and the presentation and defense of a satisfactory dissertation.

In early May each year the director and the graduate committee will review the accomplishments of the members of the third-year class. There are two possible recommendations.

1. Continuation (if the proposal is already approved) or permission to continue preparation of the dissertation proposal, with the expectation of approval by the start of the fall semester
2. Termination with only an M.M.S. degree (this decision would reflect failure of the exams or an inability to make reasonable progress toward a proposal)

The dissertation proposal is expected to be submitted no later than the first day of the fall semester of the student’s fourth year. After acceptance of the dissertation proposal, most students will require three or four years to complete the dissertation. It is not unusual for a satisfactory student to take six or seven years, from start to finish, to achieve the doctorate in Medieval Studies.

See the program handbook for additional details on the program’s dissertation proposal and defense requirements.

### Associated Tenured and Tenure-Track Faculty

Hussein Abdulsater, Assistant Professor of Classics

Chris Abram, Associate Professor of English

Ann Astell, Professor of Theology
Yury Avvakumov, Associate Professor of Theology and History of Christianity

Zygmunt G. Barański, Notre Dame Professor of Dante and Italian Studies

Alexander Beihammer, Associate Professor of History and Heiden College Chair

W. Martin Bloomer, Professor of Classics

Thomas E. Burman, Professor of History and Robert M. Conway Director of the Medieval Institute

Theodore J. Cachey Jr., Professor of Italian and Ravarino Family Director of Dante and Italian Studies

Peter J. Casarella, Associate Professor of Theology

Rev. Brian Daley, S.J., the Catherine F. Huisking Professor of Theology

JoAnn DellaNeva, Professor of French Language and Literature

Tarek Dika, Assistant Professor in the Program of Liberal Studies

Stephen D. Dumont, Professor of Philosophy

Margot Fassler, Keough-Hesburgh Professor of Music History and Liturgy

Felipe Fernández-Armesto, William P. Reynolds Professor of History

Robert Goulding, Associate Professor in the Program of Liberal Studies; Director of the History and Philosophy of Science Program

Karen B. Graubart, Associate Professor of History

David T. Gura, Curator of Ancient and Medieval Manuscripts, Hesburgh Library; Concurrent Associate Professor in the Medieval Institute

Daniel Hobbins, Associate Professor of History

Peter Holland, Associate Dean for the Arts; McMeel Family Professor in Shakespeare Studies in the Department of Film, Television, and Theatre; and Concurrent Professor of English

Peter Jeffrey, Michael P. Grace Chair in Medieval Studies, Professor of Musicology and Ethnomusicology

Rev. John I. Jenkins, C.S.C., President of the University and Professor of Philosophy

Robert M. Jensen, Professor of Theology

Claire Jones, Assistant Professor of German and Director of Graduate Studies, Medieval Institute

Encarnación Juárez-Almendros, Associate Professor of Spanish Language and Literature

Michelle Karnes, Associate Professor of English

Kathryn Kerby-Fulton, Professor Emerita of English

Tim William Machan, Professor of English

Julia Marvin, Associate Professor in the Program of Liberal Studies

William C. Mattison III, Associate Professor of History

Peter McQuillan, Associate Professor of Irish Language and Literature

Margaret H. Meserve, Associate Professor of History; Fabiano College Chair in Italian Studies; and Associate Dean, College of Arts and Letters

Christian R. Moevs, Associate Professor of Italian

Hildegund Müller, Associate Professor of Classics

Amy C. Mulligan, Assistant Professor of Irish Language and Literature

Denis Robichaud, Associate Professor in the Program of Liberal Studies

Deborah Tor, Associate Professor of History

Alexis Torrance, Assistant Professor; Archbishop Demetrios College Chair of Byzantine Theology

John Van Engen, Andrew V. Tackes Professor Emeritus of Medieval History

Joseph Wawrykow, Professor of Theology

---

**PHILOSOPHY**

**Chair:**
Jeff Speaks

**Director of Graduate Studies:**
Curtis Franks

Telephone: (574) 631-4278  
Fax: (574) 631-0588  
Location: 100 Malloy Hall  
E-mail: ndphilo@nd.edu  
Web: http://philosophy.nd.edu

**The Master of Arts**

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<th>Degree Requirements</th>
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<td>GPA</td>
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<td>Total Credits</td>
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<td>Other</td>
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Students are admitted to the doctoral program in the philosophy program, but may receive a non-research M.A. upon successful completion of the written Ph.D. candidacy examination (history exam) and 27 credit hours of graduate coursework.

The faculty as a whole periodically evaluates the progress of all students. Evaluations focus on students’ performance in courses, in non-course requirements, and in their roles as teaching assistants and teachers. If the faculty judge at any stage that a student’s progress is unsatisfactory, the student may be required to terminate his or her graduate studies.

A student who does not receive permission to proceed to doctoral candidacy upon evaluation may receive a non-research M.A. degree in philosophy after finishing 27 credit hours of graduate coursework and passing a special M.A. oral candidacy examination.

**The Doctor of Philosophy**

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For the doctorate a student must complete 42 credit hours of graduate coursework. Students who enter the doctoral program with an M.A. are normally excused from 6 to 12 credit hours of graduate coursework. Any philosophy graduate student is permitted to take up to 6 credit hours of approved undergraduate coursework in philosophy and up to 6 credit hours of coursework in related fields to satisfy the 42 credit hours. Those who choose to concentrate in such specialized fields as logic and philosophy of science may be required to take courses in other departments in support of their specialization. Students are expected to maintain a minimum B average in all of their coursework.

In general, course requirements should be satisfied within the first two years, and must be satisfied within the first three years. For specific course and seminar requirements, see the program handbook.

**Candidacy Examination**

At the end of the summer following the first year of coursework, students are required to take a written exam in the history of philosophy. The exam is given in two parts, with three hours covering ancient and medieval philosophy, and three hours covering modern philosophy.

Early in the third year, the student and his or her chosen advisor begin work on a program of independent reading in preparation for the oral comprehensive examination. This examination must be taken before the end of the sixth semester. See the program handbook for an updated list of areas of concentration available for examination and subsequent dissertation research.

This history examination and the oral comprehensive examination constitute the candidacy examination for the Ph.D.

**Qualifying Papers**

Students are required to submit two qualifying papers, each evaluated by a faculty member chosen by the students with the approval of the DGS. The two papers must be evaluated by different faculty members. This requirement must be satisfied by the midpoint of the student’s fourth semester.

**Language Requirements**

Most students will require expertise in a foreign language, typically at least one of French, German, Greek, or Latin, in order to complete their research and to have the capacity for further scholarly work in their field. The dissertation director and director of graduate studies will determine in each case the level of expertise required, and the student will not be permitted to defend the dissertation until demonstrating that level of expertise. One way of demonstrating sufficient expertise is by passage of the departmental translation exam by the end of the semester after the semester in which the dissertation proposal is approved. In individual cases, passage of the exam prior to approval of the dissertation proposal may be required.

**Dissertation Proposal and Completion**

A dissertation proposal must be approved by the student’s proposal committee by the end of the seventh semester. Once the dissertation proposal is approved, a meeting is scheduled for the student and the committee in order for the committee to provide guidance concerning the research and writing of the dissertation.
Philosophy • Romance Languages and Literatures

Tenured and Tenure-Track Faculty

Robert Audi, John A. O’Brien Professor of Philosophy
Timothy Bays, Associate Professor
Sara Bernstein, Thomas J. and Robert T. Rolfs Collegiate Chair of Philosophy and Associate Professor
Patricia A. Blanchette, Professor
Therese Cory, John and Jean Oesterle College Chair and Associate Professor
Richard Cross, John A. O’Brien Professor of Philosophy
Brian Cutter, Assistant Professor
Cornelius F. Delaney, Professor
Michael Detlefsen, McMahon-Hank Professor of Philosophy
Stephen D. Dumont, Professor
Thomas P. Flint, Professor
Curtis Franks, Director of Graduate Studies and Associate Professor
Don A. Howard, Professor
Rev. John I. Jenkins, C.S.C., President of the University and Professor
Sean Kelsey, Rev. John A. O’Brien Associate Professor
Janet Kourany, Associate Professor
Katharina Kraus, Assistant Professor
Samuel Newlands, William J. and Dorothy K. O’Neill Collegiate Associate Professor
Daniel Nolan, McMahon-Hank Professor of Philosophy
John O’Callaghan, Associate Professor
David K. O’Connor, Professor
Michael C. Rea, Rev. John A. O’Brien Professor
Blake Roeber, Assistant Professor
Hannah Rubin, Assistant Professor
Fred Rush, Professor
Christopher Shields, George N. Shuster Professor of Philosophy
Kristin Shrader-Frechette, O’Neill Family Professor of Philosophy
Jeff Speaks, Chair and Professor
James P. Sterba, Professor
Meghan Sullivan, Rev. John A. O’Brien Collegiate Chair and Professor
Nicholas Teh, Assistant Professor of Philosophy
Peter van Inwagen, John Cardinal O’Hara Professor of Philosophy
Ted A. Warfield, Professor
Stephen H. Watson, Professor
Paul J. Weithman, Glynn Family Honors Professor of Philosophy

Romance Languages and Literatures

Chair:
Thomas F. Anderson

Director of Graduate Studies:
Joshua Lund

Telephone: (574) 631-6887
Fax: (574) 631-3493
Location: 343 O’Shaughnessy
E-mail: romlang@nd.edu
Web: http://romancelanguages.nd.edu/

The Master of Arts

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The program in romance languages and literatures offers master’s degrees in Romance Languages and Literatures as well as in French Literature, Italian Studies, and Spanish Literature. Each student is encouraged to work closely with his/her advisor to design a course of study to suit individual needs, interests, and future goals.

All candidates for an advanced degree are expected to take a minimum of 30 credit hours of courses in their field of specialization. See the program handbook for additional details on course requirements.

During the second semester of the first year of graduate study, students in French must pass an oral qualifying examination. The master’s candidate will choose from a selection of texts and must demonstrate competency in analyzing a literary text in the target language before the graduate faculty. At this time, faculty members will discuss and evaluate the student’s performance in the master’s program.

In addition, all students must demonstrate competency in a second foreign language by passing a reading exam or through successful completion of appropriate coursework. Students in French and Spanish take a comprehensive written examination at the end of
the second year. Additional details on the comprehensive examinations are available in the program handbook.

Students in Italian complete a master’s thesis at the end of the second year.

Students have the opportunity to teach several language courses before completion of the master’s degree. A preliminary workshop, “Methods of Foreign Language Teaching” and “Practicum in Teaching” are required of all graduate teaching assistants.

Combined B.A./M.A. Program

The Department of Romance Languages and Literatures offers its majors in French and Spanish the opportunity to participate in its graduate program through a combination B.A./M.A. degree in the language of their major. This program requires students to complete a first major in a chosen language (i.e., at least 30 hours of coursework) during the normal four-year undergraduate period, followed by a total of 30 credit hours of graduate courses taken during the fourth and fifth years in residence. Six credit hours will be counted toward both the undergraduate and the graduate degrees. During their senior year, participants in this program complete two graduate courses, take the qualifying exam given to all first-year graduate students, and apply to the Graduate School for admission during the spring semester. B.A./M.A. students are eligible for a teaching fellowship during their fifth year that includes a tuition waiver and a generous teaching stipend. Well-qualified students who are interested in this program should contact the director of graduate studies or the graduate coordinator in their chosen language at the beginning of their junior year.

Tenured and Tenure-Track Faculty

Thomas F. Anderson, Chair and Professor of Spanish
Pedro Aguilera-Mellado, Assistant Professor of Modern Spain
Zygmunt G. Barański, Notre Dame Professor of Dante and Italian Studies; Director of Graduate Studies, Italian
Theodore J. Cachey, Professor of Italian and the Albert J. and Helen M. Ravarino Family Director of Dante and Italian Studies
JoAnn DellaNeva, Professor of French; Academic Director and London Global Gateway
Sabrina Ferri, Associate Professor of Italian
Karen Graubart, Concurrent Associate Professor of History and Romance Languages and Literatures
Rev. Gregory Haake, C.S.C., Assistant Professor of French
Ben Heller, Associate Professor of Spanish
Carlos Jáuregui, Associate Professor of Spanish
Encarnación Juárez-Almendros, Associate Professor of Spanish
Charles L. Leavitt IV, Assistant Professor of Italian Studies
Joshua Lund, Professor of Spanish and Director of Graduate Studies for Spanish and French
Louis MacKenzie, Associate Professor of French
Barry McCrea, Concurrent Professor of Irish Language and Literature and Romance Languages and Literatures
Vanessa Miseres, Assistant Professor of Spanish
Christian Moevs, Associate Professor of Italian
Olivier Morel, Assistant Professor and Romance Languages & Literatures and Film, Television and Theatre
Marisel Moreno, Associate Professor of Spanish
María Rosa Olivera-Williams, Professor of Spanish
Sarah Quesada, Concurrent Assistant Professor and Department of English
Alison Rice, Associate Professor of French; Director and Institute for Scholarship in the Liberal Arts
Denis Robichaud, Concurrent Assistant Professor and Program of Liberal Studies and Romance Languages and Literatures
Sonja Stojanovic, Assistant Professor of French
Alain Toumayan, Professor of French
Juan Vitulli, Associate Professor of Spanish

Sacred Music

Acting Program Director:
Mark Doerries

Acting Director of Graduate Studies:
Alexander Blachly

Telephone: (574) 631-1300
Fax: (574) 631-8985
Location: 542 O’Neill Hall of Music
Email: sacredmusic@nd.edu
Web: http://sacredmusic.nd.edu/
Sacred Music

Sacred music at Notre Dame is an independent graduate program housed in the College of Arts and Letters and relies on major participation of faculty from both the Music and Theology Departments. The program in sacred music offers the master of sacred music (M.S.M.) degree and the doctor of musical arts (D.M.A.) degree.

The Master of Sacred Music

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<th>Degree Requirements</th>
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The sacred music M.S.M. is a two-year, 48-credit-hour terminal degree, consisting of courses in sacred music, liturgical studies, and applied music. Students apply in one of three concentrations: (1) choral conducting; (2) organ; or (3) vocal. Foreign language and some liturgy courses may be taken during the summer sessions. Mastery of the chosen field is required, and students are encouraged to gain expertise in secondary areas as well.

In addition, all students:

- perform one recital per year (first-year vocal and conducting students perform a joint recital);
- attend the colloquium series, which usually meets six times per academic year; and
- are assigned an assistantship and must work for around 13 hours per week in these positions.

For specific course and credit requirements, refer to the program handbook.

Doctor of Musical Arts

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The sacred music D.M.A. is a three-year 60-credit-hour degree consisting of 25 credit hours of academic coursework and 35 credits in performance, musicianship, and repertoire relevant to their concentration in organ or choral conducting. At least 47 GPA credits must be completed during the first 2 years of residency and prior to admission to candidacy. In the third year of residency, students continue with lessons and register for dissertation credits. The D.M.A. is a stand-alone degree, separate from the appropriate master’s degree earned either at Notre Dame or at another institution.

Admission to Candidacy

Admission to candidacy is a prerequisite to receiving a doctoral degree. To qualify for admission to doctoral candidacy, a student must: be in a doctoral program, complete the program coursework and language requirements with a cumulative G.P.A. of 3.0 or better, pass the written and oral parts of the doctoral candidacy examination, and have the dissertation proposal approved (if this is not part of the candidacy exam).

Foreign Language Requirement

As part of admission to candidacy by the end of the summer of the second year, the student must have met the program’s requirements for competency in at least one foreign language. Competency in this language should be related to the student’s dissertation topic but not be a student’s native tongue. These courses are normally taken during the summer sessions.

Candidacy Examination

The examination consists of two parts: a written component and an oral component. The written part of the examination normally precedes the oral part. It is designed, scheduled, and administered by the program. The oral part of the examination is normally taken after the completion of the 47 GPA credit hour coursework requirement. Normally, the candidacy examination is passed, and the dissertation topic approved, no later than the summer following the fourth semester of enrollment.

The D.M.A. Dissertation

In continuing consultation with the dissertation director, the candidate explores research and performance areas in his or her field to formulate a proposal. The methods of approval of the dissertation proposal are determined by the student’s program of study.

In addition, all students:

- perform one recital per year.
- attend the colloquium series, which usually meets six times per academic year.
- assigned an assistantship and must work for around 13 hours per week in these positions.

For specific course and performance requirements by concentration, see the program handbook.
Tenured and Tenure-Track Faculty

Kimberly Belcher, Assistant Professor of Liturgical Studies

Alexander Blachly, Professor of Musicology and Acting Director of Graduate Studies

Christopher Chowrimootoo, Concurrent Assistant Professor of Musicology

Craig Cramer, Professor of Organ

David Fagerberg, Professor of Liturgical Studies

Margot Fassler, Keough-Hesburgh Professor of Music History and Liturgy

Mary Frandsen, Associate Professor of Musicology

Peter Jeffery, Michael P. Grace Chair in Medieval Studies, Professor of Musicology and Ethnomusicology

Maxwell Johnson, Professor of Liturgical Studies

John Liberatore, Assistant Professor of Music Theory and Composition

Gabriel Radle, Concurrent Assistant Professor of Liturgy

Carmen-Helena Téllez, Professor of Conducting

The Doctor of Philosophy

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The Doctor of Philosophy in Spanish is a highly selective program that teaches and trains students working in the field of Spanish and Latin American Literatures and Cultures. The program offers a flexible curriculum tailored to each student’s interests and background and has a dissertation-oriented design that leads to the successful writing and defense of a relevant dissertation that contributes to the candidate’s area of study and that successfully places the candidate in the field and in the academic job market.

Coursework

The Ph.D. in Spanish requires 45 credit hours of graduate coursework (including credit transfers, an advanced theory seminar, and a class on teaching methodology). Students must also complete a foreign-language requirement other than Spanish, a successful comprehensive exam, the candidacy examination and defense of the dissertation proposal, and the successful defense and submission of a doctoral dissertation. Coursework is typically finished by the end of the fourth semester, and must be completed by the end of the fifth semester.

For specific coursework requirements, consult the program’s handbook.

Examinations, Proposals, and Dissertations

The comprehensive exam is a process that spans the second and third semesters (including the summer in-between). Based on a reading list tied directly to the student’s area of research, its objective is to prepare the student for the deep knowledge of specialization required of a dissertation project. The student is expected to demonstrate fluency in situating their research interests as they relate to major currents and traditions in the field.

The written candidacy examination and the oral defense of the dissertation proposal take place before the end of the fifth semester of study. At the end of the fifth year, the student gives a presentation on the dissertation and defends it publicly. No defenses are scheduled during the summer.

Languages

Candidates must demonstrate near-native fluency in Spanish and advanced reading knowledge in a second language other than English. Students are encouraged to do coursework in the second language in order to develop real competency unless they are admitted already possessing such advanced reading knowledge.

Second Area of Specialization

In addition to the primary area of focus, students will incorporate into their program of study a second, complementary area of specialization within the Department of Romance Languages and Literatures or another University academic unit. Examples of appropriate second areas of special-
ization include Portuguese, Italian, French, Latino Studies, Religion and Literature, Philosophy, Literary and Cultural Theory, Gender Studies, Memory Studies, Human Rights, and so on.

**Associated Tenured and Tenure-Track Faculty**

Thomas F. Anderson, Chair and Professor of Spanish  
Pedro Aguilera-Mellado, Assistant Professor of Modern Spain  
Ben Heller, Associate Professor of Spanish  
Carlos Jáuregui, Associate Professor of Spanish  
Encarnación Juárez-Almendros, Associate Professor of Spanish  
Joshua Lund, Professor of Spanish and Director of Graduate Studies for Spanish and French  
Vanessa Miseres, Assistant Professor of Spanish  
Marisel Moreno, Associate Professor of Spanish  
María Rosa Olivera-Williams, Professor of Spanish  
Juan Vitulli, Associate Professor of Spanish

**Theology**

**Chair:**  
Timothy Matovina

**Director of Ph.D. Program:**  
Gerald McKenny

**Director of M.A. Program:**  
Catherine Cavadini

**Director of M.Div. Program:**  
Todd Walatka

**Director of M.T.S. Program:**  
Robin Jensen

Telephone: (574) 631-7811  
Fax: (574) 631-4291  
Location: 130 Malloy Hall  
E-mail: theo.1@nd.edu  
Web: http://theology.nd.edu

**The Master of Arts**

**Degree Requirements**

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<th>GPA Credits</th>
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<td>36 credits</td>
<td>36 credits</td>
<td>Admission to candidacy</td>
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The master of arts (M.A.) in theology is a 36 credit-hour terminal degree for individuals who desire advanced theological training. Graduates of this program should be able to serve as theological resources in variety of settings. Recipients of this degree will have received instruction in the classical areas of theological inquiry.

M.A. students may take courses during the summer and/or academic year for credit towards their degree. In addition to completing the course requirements, students are expected to pass a capstone course, which includes a written paper and oral presentation based on a theme touching upon all areas of study within the Department of Theology, and made accessible to a particular audience.

For specific course, concentration and exam requirements, see the program handbook.

**The Master of Divinity**

**Degree Requirements**

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<th>Lay Students</th>
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<td>GPA Credits</td>
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<tr>
<td>6 credits (human and spiritual formation)</td>
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<td>Other Admission to candidacy</td>
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<tr>
<td>Synthesis Seminar project and presentation</td>
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<tr>
<td>Participation in human and spiritual formation within the lay community</td>
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*Seminar Students*

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<td>Other Admission to candidacy</td>
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<tr>
<td>Synthesis Seminar project and presentation</td>
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<td>Formation within the context of the Congregation of Holy Cross</td>
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The master of divinity (M.Div.) is a professional theological degree designed to prepare students for learned and effective ministry in the Roman Catholic Church, either as priests or as professional lay ministers. The studies of Scripture, the history of Christian tradition, systematic theology, liturgy, and Christian ethics are joined to field experience, training in pastoral skills, integrative formation seminars and meetings, retreats and spiritual direction, and vocational formation to form a comprehensive ministerial curriculum. Thus, the M.Div. aims at a comprehensive, holistic integration of intellectual, pastoral, human and spiritual dimensions of preparation for ministry.
The Program of Studies

The program of studies leading to the M.Div. for lay students requires 86 credits of theological and pastoral coursework and six credits of human and spiritual formation taken over six semesters. Candidates of the seminary are expected to complete 108 theological and pastoral credits taken over eight semesters. Seminarians are subject to additional formation requirements within the Congregation of Holy Cross as specified by the Vatican. All students complete the Synthesis Seminar project and presentation.

For specific course and credit requirements, refer to the program handbook.

Field Education

Field education serves as an integral complement to the theological and pastoral education of ministry students, as well as to their spiritual and human formation and vocational preparation. Field education provides those preparing for ministry multiple and varied opportunities for acquiring ministerial skills within supervised and mentored contexts, for integrating their ministerial experiences through theological reflection, and ultimately for developing their ministerial identities. To make these opportunities possible, field education consists of the following:

- weekly service at a ministerial site during each of the three academic years in the M.Div. program;
- regular individual supervision with an experienced mentor at the ministry site;
- weekly seminars utilizing case study method and conversations about contemporary theological and ministerial issues.

Human and Spiritual Formation

All M.Div. students participate in a program of human and spiritual formation suited to their particular vocational preparation as seminarians, as vowed religious, or as candidates for lay ministry. Lay students engage in comprehensive human and spiritual formation within the formal context of the M.Div. program, including individual and communal formation meetings, retreats, days of recollection, and spiritual direction. Seminarians and vowed religious engage in these dimensions primarily within the context of the Congregation of Holy Cross. With the guidance of formators and spiritual directors, all students are mentored in the life of faith, in their personal growth, and in their ongoing vocational discernment. Regular joint formation events are also held, bringing all constituencies of the program together around shared issues and themes relative to their preparation for ministry.

The Master of Theological Studies

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The Master of Theological Studies (M.T.S.) program trains graduate students for future doctoral work in the various disciplines within the study of theology. The M.T.S. is a 48-credit-hour degree designed to give students exposure to the full range of theological studies while also allowing them to develop competence in an area of concentration and to improve their language abilities. Along with two years of full-time coursework, the M.T.S. also includes participation in the master’s colloquium, competency in one modern language, and the completion of a reading comprehensive oral exam to be given at the end of the second year of coursework. The areas of Biblical studies, history of Christianity, and liturgical studies also have ancient language requirements, and World Religions World Church has a foreign language requirement.

In all there are six areas of concentration in the M.T.S. program. Students must take at least 15 credit hours in the area of their concentration, and may take Ph.D. seminars, provided they first secure the permission of the course instructor and the M.T.S. director.

In order to introduce every M.T.S. student to a wide range of theological education, each area of study also involves requirements in other areas.

For specific course, concentration, language and exam requirements, see the program handbook.

The Doctor of Philosophy

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The doctoral program requires 42 credit hours of coursework. Students
must specialize in one of six areas of concentration:

- Christianity and Judaism
- the history of Christianity
- liturgical studies
- moral theology/Christian ethics
- systematic theology,
- world religions and world Church

Within the program areas, students concentrate their coursework in a major field. These major fields are defined as follows: Christianity and Judaism in antiquity, Hebrew Bible and Judaica, New Testament and early church, history of Christianity, early Church, medieval studies, Reformation and modern studies, liturgical studies, moral theology/Christian ethics, systematic theology, and world religions and world Church.

Residency
Students are expected to take 14 courses during two years of residency: eight of these must be in the major field of study; three must be outside the major fields; and three are electives.

Those students who enter with a master’s degree or its equivalent may seek immediate admission to residency.

Language Requirement
Students are required to pass examinations in a minimum of three languages, Greek or Latin, French, and German. Students in systematic theology may substitute Spanish for French or German.

For specific details on language requirements by area of study, see the program handbook.

Independent Study
After the period of coursework, students spend a period of time, normally nine months, of independent study organized around a series of topics. These topics are meant to expand the students’ intellectual breadth and skills and involve matters of inquiry that extend beyond their coursework. After consultation with the advisor, the student will propose a series of 10 topics, seven in the major field of study and three outside the major field. At least one of the topics in the major field will deal with the subject on which the student intends to write a dissertation. The program of independent study is approved by a committee and forms the basis for candidacy examinations.

Candidacy Examinations
Offered in October and March, the examinations are usually taken in the second semester after the two-year residency and completion of the language requirements.

The exams consist of three days of written examinations and a 90-minute oral examination. Successful completion of the written examinations is required for admission to the oral examination.

The Dissertation
The dissertation proposal is to be submitted by the beginning of the semester following oral candidacy examinations.

The completed dissertation must be defended and submitted within eight years of matriculation into the program.

Joint Ph.D. Program in Peace Studies and Theology
In addition to the six major areas of concentration, the Department of Theology offers a Ph.D. in Theology and Peace Studies in partnership with Notre Dame’s Kroc Institute for International Peace Studies. The degree includes a course of integrated studies so that graduates are fully credentialed in both theology and interdisciplinary peace research. The requirements for the Ph.D. in Theology and Peace Studies include the following: a minimum of 24 graded hours of credit in theology in one of the areas of concentration, and 18 graded hours in peace studies. Students will meet the theology department’s minimum language requirements of two modern research languages (typically French and German) and one classical language (Latin or Greek).

Joint Ph.D. Program in Theology and the History and Philosophy of Science
The History and Philosophy of Science Program at Notre Dame is a Ph.D. program. Graduate students pursue their studies in one of three tracks (either History, Philosophy, or Theology and Science), and have a second home in the corresponding department.

Tenured and Tenure-Track Faculty
Khaled Anatolios, John A. O’Brien Professor of Theology
Gary Anderson, Hesburgh Professor of Catholic Theology
Neil Arner, Assistant Professor
J. Matthew Ashley, Associate Professor
Ann W. Astell, Professor
Theology

Yury Avvakumov, Associate Professor
Steven Battin, Assistant Professor
Kimberly Belcher, Assistant Professor
John Betz, Associate Professor
Peter Casarella, Associate Professor
John C. Cavadini, Director of Institute for Church Life and Professor of Theology
David A. Clairmont, Associate Professor
Rev. Brian Daley, S.J., Catherine F. Huisking Professor of Theology
Nathan Eubank, Associate Professor
David Fagerberg, Professor
Margot Fassler, Keough-Hesburgh Professor of Music History and Liturgy
John T. Fitzgerald, Professor
Nina Glibetic, Assistant Professor
Jennie Grillo, Assistant Professor
Rev. Daniel G. Groody, C.S.C., Associate Professor
Kevin Grove, Assistant Professor
M. Catherine Hilkert, O.P., Professor
Robin Jensen, Director of the M.T.S. Program and Patrick O’Brien Professor of Theology
Maxwell Johnson, Professor
Emmanuel Katongole, Professor
Rev. Paul Kollman, C.S.C., Associate Professor and Executive Director, Center for Social Concerns
David Lantigua, Assistant Professor
Ulrich Lerner, William K. Warren Professor
Blake Leyerle, Associate Professor and Concurrent Associate Professor of Classics
Abraham Winitzer, Associate Professor, Kapson Professor of Jewish Studies
David Lincicum, Associate Professor
Bradley J. Malkovsky, Associate Professor
Timothy Matovina, Chair of Theology and Professor
William Mattison, Associate Professor
Gerald McKenny, Director of the Ph.D. Program and Walter Professor of Theology
Francesca Murphy, Professor
Michael (Tzvi) Novick, Abrams Associate Professor of Jewish Thought and Culture
Kenneth Oakes, Assistant Professor
Rev. Paulinus I. Odozor, C.S.Sp., Associate Professor
Cyril O’Regan, Catherine F. Huisking Professor of Theology
Rev. Hugh Rowland Page Jr., Vice President and Associate Provost for Undergraduate Affairs, Dean of the First Year of Studies, Professor of Theology and Africana Studies
Jean Porter, John A. O’Brien Professor of Moral Theology
Gabriel Radle, Assistant Professor
Gabriel Said Reynolds, Professor
Maura A. Ryan, Vice President and Associate Provost, and Associate Professor of Theology
Mun’im Sirry, Assistant Professor
Alexis Torrance, Assistant Professor
Joseph P. Wawrykow, Professor
Todd D. Whitmore, Associate Professor
THE DIVISION OF SCIENCE

APPLIED AND COMPUTATIONAL MATHEMATICS AND STATISTICS

Chair: 
Bei Hu

Director of Ph.D. Program: 
Fang Liu

Director of the M.S. Data Science Program: 
Roger Woodard

Director of the M.S. Professional Program: 
Steven Buechler

Telephone: (574) 631-8630 
Fax: (574) 631-4822 
Location: 102G Crowley Hall 
E-mail: acms@nd.edu 
Web: http://acms.nd.edu /

The Master of Science (Data Science)

Notre Dame’s Data Science program is offered by the Department of Applied and Computational Mathematics and Statistics (ACMS), with the participation of faculty from the Department of Computer Science and Engineering, the Department of Psychology, and the Mendoza College of Business.

Designed to be completed in 21 months of half-time enrollment (six course credits per semester over five semesters), the Data Science program allows students to remain fully employed, while making steady academic progress.

After the on-campus introductory immersion weekend, the program utilizes an online format optimized for learning complex quantitative material, and features small, live classes taught by Notre Dame faculty. Students have the option to attend an in-person exclusive immersion weekend that combines instruction and project work with industry roundtables and professional topics suited to the location.

The Master of Science (Professional Degree)

The professional master of science degree in Applied and Computational Mathematics and Statistics (ACMS) trains students in the mathematical, statistical and computational tools used in finance, computational biology or other technical fields. The intensive 11-month program combines coursework, projects in the student’s chosen area of employment, and practical business training. Most students will seek employment immediately upon completion of this degree.

The Master of Science (Ph.D. Track)

Students who are working toward a Ph.D. in the Applied and Computational Mathematics and Statistics program may qualify for a master of science degree along the way, if they have accumulated 30 credit hours, passed the written candidacy examination, and passed the oral candidacy examination.

### Degree Requirements

| GPA Credits | 30 credits |
| Total Credits | 30 credits |
| Other | Admission to candidacy |

| GPA Credits | 30 credits |
| Total Credits | 30 credits |
| Other | Admission to candidacy |
Students working toward a Ph.D. in another Notre Dame doctoral program may also elect to pursue the master of science. To qualify, the student must submit a plan of study that is approved by his or her advisor, the ACMS director of graduate studies, and the ACMS department chair. To complete the requirements for this degree, the student must successfully pass both the written master’s examination and an oral examination.

The program does not admit students directly to this degree.

### The Doctor of Philosophy

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Doctoral students are required to complete 18 credits of ACMS courses at the graduate level in the first two semesters of study to remain in good standing. At the discretion of the director of graduate studies, a maximum of 6 credits of graduate level courses transferred from another university may be counted toward the required ACMS course work for a student without a completed master’s degree. For a student with a completed master’s degree, the director of graduate studies will determine the number of transferred credits applied to the required ACMS course work. Students are required to complete a minimum of 3 credits of regular or topic courses at graduate level each year and 0.5 credits of ACMS Applied Mathematics or Statistics Seminar between the second and the fourth year to improve knowledge.

### Written and Oral Candidacy Examinations

The written examination must be completed by the end of the first year; the timeline will be adjusted for students transferring from another program. Students have two chances to pass the written examination: during year one in the first week of June, and again one week before the start of the fall semester of year two.

The oral candidacy examination follows the completion of the written examination, and focuses on an advanced topic. Students are encouraged to take the examination as early as possible. In general, students must take the oral candidacy examination by April 15 in the second year. The director of graduate studies may allow exceptions for special circumstances.

For additional degree requirements, refer to the program handbook.

### Tenured and Tenure-Track Faculty

- Steven Buechler, Director of Graduate Studies (M.S. program) and Professor
- Martina Bukač, Assistant Professor
- Stefano Castruccio, Assistant Professor
- Guosheng Fu, Robert and Sara Lumpkins Assistant Professor
- Jonathan Hauenstein, Associate Chair and Professor
- Bei Hu, Chair and Professor
- Alexandra Jilkine, Assistant Professor
- Jun Li, Associate Professor

Lizhen Lin, Associate Professor
Alan Lindsay, Associate Professor
Fang Liu, Director of Graduate Studies (Ph.D. program) and Associate Professor
Dong Quan Ngoc Nguyen, Assistant Professor
Robert Rosenbaum, Huisking Foundation, Inc. Assistant Professorship of Applied and Computational Mathematics and Statistics
Daniele Schiavazzi, Assistant Professor
Andrew Sommese, Vincent J. Duncan and Annamarie Micus Duncan Professor of Mathematics
Zhiliang Xu, Associate Professor
Yongtao Zhang, Professor

### Biological Sciences

**Chair:**
Crislyn D’Souza-Schorey

**Director of Graduate Studies:**
Rebecca Wingert

Telephone: (574) 631-6552
Fax: (574) 631-7413
Location: 100 Galvin Life Sciences Center
E-mail: biology@nd.edu
Web: [http://biology.nd.edu/](http://biology.nd.edu/)

### The Master of Science

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The master’s degree is a 30-credit-hour program requiring the satisfactory completion of a minimum of 15 credit hours of course work, passing a research proposal review, and completing a suitable master’s thesis.

The Doctor of Philosophy

For the degree of doctor of philosophy, the student is expected to complete a 60-credit-hour requirement. This is composed of at least 24 credit hours of course work and the remainder as dissertation research. The student must pass a comprehensive candidacy examination consisting of both an oral and a written examination. After the student is admitted to candidacy, he or she must then defend and submit a written dissertation.

Students in the doctoral degree program must also fulfill a one-year teaching requirement that usually involves assisting in the instruction of undergraduate or graduate laboratory courses. This requirement may be automatically fulfilled if the student has a graduate assistantship for financial aid.
The Master of Science

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The graduate program is primarily a doctoral program, leading to the degree of doctor of philosophy. The program ordinarily will not accept a student who intends to complete only the master's degree. However, a program leading to the degree of master of science is available; it involves satisfactory completion of graduate course work without any thesis requirement.

Requirements for the M.S. include a total of 30 credit hours in courses and research. Students must include at least six credit hours of research in their M.S. program. The remainder of the credit hours must be graded coursework from the Ph.D. curriculum, as described in the program handbook, selected with approval of the DGS.

The Doctor of Philosophy

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The biophysics Ph.D. is an interdisciplinary program that offers students the opportunity to participate in research that crosses home department boundaries. All students admitted to the program ultimately identify themselves with one of three research and training tracks, depending on their interests.

Requirements for the Ph.D. include at least 24 credit hours of course work and a total of 60 credit hours in courses and research. During the first year, this includes general courses relevant to the general conduct of biophysics research as well as courses specific to each research track. After the first year, students take course work further tailored to their needs and interests, selected in consultation with their advisor. Biomedical research ethics is emphasized early in the program. For details regarding specific course requirements, refer to the program handbook.

Most students will have completed their courses by the end of their second year, permitting dissertation research to proceed full-time.

During their first academic year (August through May), students are exempt from teaching assistant duties, and participate in three successive ten-week research rotations. These rotations allow students to directly engage in research, contributing to the ongoing scientific investigations in each laboratory. The three rotations expose students to a range of complementary biophysics research and allow students to learn a variety of experimental techniques.

There is no foreign language requirement for a Ph.D. in Biophysics.

In addition to course work, there are three examinations to be passed for a Ph.D. — a written and oral Academic and Research Progress (ARP) exam, a written and oral Ph.D. candidacy examination, and an oral Ph.D. dissertation defense. The ARP exam is typically taken during the fourth semester. The candidacy examination is typically taken in the sixth or seventh semester, after course work is complete.

Candidacy examinations and dissertation requirements follow the traditions and formats currently in place in the research director's home department.

To remain in good standing, students are required to: maintain a 3.0 grade point average, pass the ARP exam by the end of their fourth semester, pass
the candidacy exams before the end of their fourth year, and submit and defend a doctoral dissertation before the end of their eighth year.

The minimum residence requirement for the Ph.D. degree is four consecutive semesters and may include summer session.

**Chemistry and Biochemistry**

**Chair:**
Brian Baker

**Director of Graduate Studies:**
Brandon Ashfeld

Telephone: (574) 631-0977
Fax: (574) 631-6652
Location: 251 Nieuwland Science
E-mail: chemistry@nd.edu
Web: [http://chemistry.nd.edu](http://chemistry.nd.edu)

**The Master of Science**

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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The program in chemistry and biochemistry does not admit students directly into a master of science (M.S.) program. However, students who have not passed the academic and research progress (ARP) examination in their third semester may be eligible to receive a M.S. degree.

At the discretion of the advisor and only with the advisor’s financial support, a student who fails the exam and is moved into the M.S. program may have the option of completing a thesis in the advisor’s laboratory. In such a case, provided the advisor is willing and able to provide funding, the student may remain in the program until completion of the thesis or the end of the fifth year, although the student may choose to leave with a non-research M.S. at any time.

If the advisor is unable or unwilling to act as the student’s thesis director, a non-research M.S. degree is available, provided the student has completed the course work requirements and has attempted the ARP examination.

Following the recommendation of the student’s advisor and committee, it may be possible for a student who has completed a thesis to re-enter the doctoral program, pending approval by the director of graduate studies or the department chair. A student who has re-entered the Ph.D. program will receive written confirmation from the director of graduate studies.

For additional degree requirements, refer to the program handbook.

**The Doctor of Philosophy**

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Graduate students pursuing a Ph.D. in chemistry or biochemistry must complete at least 18 credits of course work prior to the end of their third semester.

A combined total of 90 credits are required; this total includes all courses taken, including not only instructional coursework, but research, seminars, directed readings, etc. The program may accept course work completed at another accredited university toward meeting the requirements for either doctoral degree.

To continue in the Ph.D. program, students must pass the academic and research progress (ARP) exam. The ARP exam is taken during a student’s third semester; to be eligible for the exam, the student must be in good academic standing in the department. The exam consists of a written document and an oral defense in front of the student’s committee.

Admission to candidacy for the Ph.D. occurs after completion of written and oral examinations in the area of specialization. Once admitted to candidacy, the student must then write, defend and submit a doctoral dissertation to complete the degree requirements.

For additional degree requirements, refer to the program handbook.

**Tenured and Tenure-Track Faculty**

Brandon Ashfeld, Associate Professor and Director of Graduate Studies

Brian M. Baker, Chair and Rev. John A. Zahm Professor

Brian Blagg, Professor

Paul Bohn, Arthur J. Schmitt Professor

Jessica Brown, Assistant Professor

Seth N. Brown, Professor

Jon P. Camden, Associate Professor

Ian C. Carmichael, Professor and Director of Radiation Laboratory
The curriculum of the 11-month master of science program in Engineering, Science & Technology Entrepreneurship Excellence (ESTEEM) is designed to further STEM technical training and build business skills through the lens of entrepreneurship, delivered by faculty members who have lived it. Strategically integrated with the curriculum, the year-long capstone thesis project serves as the real-world sandbox in which students apply classroom skills to a real-world technology commercialization effort. The timeline of the capstone project matches the sequence of classes through the year, and in many cases, assignments in class are used to advance the student’s project.

The curriculum is divided into three parts, which take place over the course of three terms (Summer, Fall, Spring). During the course of these terms, students are expected to fulfill the following requirements.

- Complete entrepreneurial-focused business courses ranging from accounting financials to development of a launch strategy.
- Pass six credit hours of electives, typically related directly to the student’s capstone thesis project.
- Defend and submit their capstone thesis project related to commercialization of a technology or development of a business-case for a product or service.

For additional course and degree requirements, refer to the program handbook.
INTEGRATED BIOMEDICAL SCIENCES

Director of Graduate Studies:
Holly Goodson
Telephone: (574) 631-7744
Fax: (574) 631-6652
Location: 439 Stepan Chemistry
E-mail: ibms@nd.edu
Web: http://ibms.nd.edu/

The Doctor of Philosophy

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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The Integrated Biomedical Sciences Ph.D. is an interdisciplinary program that offers students the opportunity to participate in research that crosses home department boundaries. All IBMS students admitted to the program ultimately identify themselves with one of eight research and training clusters, depending on their interests.

During their first academic year (August through May), students are exempt from teaching assistant duties, and participate in three successive ten-week research rotations. The rotations, performed in laboratories chosen by the student, allow students to directly engage in research, contributing to the scientific investigations ongoing in each laboratory. The three rotations expose students to a range of complementary biomedical research and allow students to learn a variety of experimental techniques.

IBMS students are expected to complete at least 24 credit hours of coursework. During the first year, this includes general courses relevant to the general conduct of biomedical research as well as courses specific to each research and training cluster. After the first year, students take course work further tailored to their needs and interests, selected in consultation with their advisor. Biomedical research ethics is emphasized early in the program.

Most students will have completed their courses by the end of their second year, permitting dissertation research to proceed full-time.

Candidacy examinations and dissertation requirements follow the traditions and formats currently in place in the research director’s home department.

For more information on course and program requirements, see the program handbook.

The Master of Science in Global Health

Director of Global Health Training:
Heidi Beidinger

Telephone: (574) 631-5617
Fax: (574) 631-7413
Location: 23 Flanner Hall
E-mail: ghms@nd.edu
Web: http://globalhealth.nd.edu

The master of science in global health (M.S.) program provides an engaging science-centric training in the context of global health. Our program is a one-year, intensive training that includes two semesters of coursework and one (summer) semester of a field practicum, called the capstone project which enables students to make connections between classroom learning and real health needs of resource-poor settings around the world through a hands-on six to eight week field experience.

MATHEMATICS

Chair:
Richard Hind

Director of Graduate Studies:
Samuel Evens

Telephone: (574) 631-7245
Fax: (574) 631-6579
Location: 255 Hurley Hall
E-mail: mathdgs@nd.edu
Web: http://math.nd.edu
The Master of Science

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A student who is working toward a Ph.D. in mathematics may qualify for a master of science degree along the way, if he or she has accumulated 30 credit hours, has passed the written candidacy examination, and has either passed the oral candidacy examination or (without passing) exhibited sufficient knowledge to obtain a positive recommendation from the examiners.

Students are not normally admitted directly to the master’s program.

The Master of Science in Interdisciplinary Mathematics

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<th>Degree Requirements</th>
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<td>GPA</td>
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<td>Other</td>
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<tr>
<td>Master’s thesis or project</td>
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</table>

The Department of Mathematics offers a master of science in interdisciplinary mathematics (MSIM) degree primarily for students who are already pursuing a Ph.D. with another Notre Dame graduate program. The goal of this degree is to produce skilled and creative scholars who will be able to use sophisticated techniques in their professional activities and go beyond the established mathematical paradigms in their particular areas of interest.

The program of study for the MSIM consists of a core mathematics component of 9–12 credit hours and an interdisciplinary component of 12–15 credit hours. An appropriate selection of courses in any graduate discipline at Notre Dame that makes serious use of mathematics will meet the interdisciplinary course requirement. At most, 9 credit hours can be double-counted (i.e., counted toward the Ph.D. in another department).

The final requirement for the MSIM is a master’s thesis or project. For the thesis option, the student pursues an interdisciplinary master’s thesis written, defended, and submitted according to the standard procedures of the Graduate School. In lieu of a defense or formal committee, the project option requires the approval of the Director of Graduate Studies (DGS) of the graduate program in mathematics and of the cooperating program, the student’s advisor(s), and the Dean of the Graduate School.

Students are not normally admitted directly to the MSIM program.

The Doctor of Philosophy

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<th>Degree Requirements</th>
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<td>GPA</td>
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<td>Doctoral dissertation</td>
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The written candidacy examination is passed by getting at least a B in any 6 basics classes and must be completed during the first year. The oral candidacy examination is taken during the second year.

Once the student is admitted to degree candidacy, he or she must write, defend and successfully submit a doctoral dissertation to complete the requirements for the Ph.D.

Most students complete the program within five years.

For more information on course and program requirements, see the program handbook.

Tenured and Tenure-Track Faculty

Katrina D. Barron, Associate Professor
Mark Behrens, Professor, John and Margaret McAndrews Chair
Peter Cholak, Professor
Jeffrey Diller, Professor
Matthew J. Dyer, Professor and Associate Chair
Nicholas Edelen, Assistant Professor
Samuel Evens, Professor, Director of Graduate Studies, and Director of Graduate Admissions
Leonid Faybusovich, Professor
David Galvin, Associate Professor
Michael Gekhtman, Professor
Matthew Gursky, Professor
Brian Hall, Professor
Qing Han, Professor
Alex Himonas, Professor
The Program of Studies

The University of Notre Dame Graduate School and the Indiana University School of Medicine – South Bend (IUSM – SB) offer a joint M.D./Ph.D. degree for exceptional students interested in academic medicine.

To earn the joint degree, students complete the first two years of medical school at IUSM – SB and continue at Notre Dame for three more years to pursue the University’s doctoral degree through the Graduate School. The last two years of medical school then will be completed at the Indiana University School of Medicine’s South Bend campus or any other School of Medicine campus throughout the state which offers the 3rd and 4th year. Since it is now possible to complete all four years of medical school in South Bend, the traditional schedule outlined above may be modified to pursue both the M.D. and the Ph.D. over a 6–7 year period.

Program descriptions and requirements for all of Notre Dame’s doctoral programs, may be found elsewhere in this Bulletin. Students in the M.D./Ph.D. program may pursue the doctoral degree in any of these disciplines.

Admission to the program requires separate applications to the Notre Dame Graduate School and the Indiana University School of Medicine. The Graduate School will accept MCAT scores in place of the GRE scores required of all applicants. The parallel applications are coordinated and tracked by the IUSM – SB which serves as the central office for the combined degree program. Representatives from Notre Dame and the I.U. School of Medicine monitor and oversee the program.

The Master of Science

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The graduate program is primarily a doctoral program, leading to the
degree of doctor of philosophy. The department ordinarily will not accept students who intend to complete only the master’s degree. However, a program leading to the degree of master of science is available; it involves satisfactory completion of graduate course work without any thesis requirement.

Requirements for the M.S. include a total of 30 credit hours in courses and research. Students may include up to six credit hours of research in their M.S. program. The remainder of the credit hours must be graded coursework from the Ph.D. curriculum, as described in the program handbook, selected with approval of the DGS. In addition to coursework, the student must pass an oral master’s examination.

To remain in good standing, students are required to: maintain a 3.0 grade point average, pass the preliminary examination by the beginning of the second year, pass the candidacy exams by the end of the fourth year, and defend and submit a doctoral dissertation by the end of the eighth year.

The minimum residence requirement for the Ph.D. degree is four consecutive semesters.

### Tenured and Tenure-Track Faculty

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Requirements for the Ph.D. include a total of 60 credit hours in courses and research, including 27 hours of graded coursework. For details regarding the experimental proficiency requirement and specific course requirements, refer to the program handbook.

There is no foreign language requirement for a Ph.D. in physics.

In addition to coursework, there are three examinations to be passed for a Ph.D. — a written preliminary examination on undergraduate physics, a written and oral Ph.D. candidacy examination, and an oral Ph.D. dissertation defense. Students first take the preliminary exam in the fall of their first year, and must pass it by the beginning of the second year. The candidacy examination is typically taken in the third year, after course work is complete.

The Doctor of Philosophy

<table>
<thead>
<tr>
<th>Tan Ahn, Assistant Professor</th>
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<tbody>
<tr>
<td>Ani Aprahamian, Frank M. Freimann Professor of Physics</td>
</tr>
<tr>
<td>Badif Assaf, Frank M. Freimann Assistant Professor of Physics</td>
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<tr>
<td>Dinshaw Balsara, Professor</td>
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<tr>
<td>Dan Bardayan, Professor</td>
</tr>
<tr>
<td>Timothy Beers, Notre Dame Chair in Astrophysics, Professor</td>
</tr>
<tr>
<td>Maxime Brodeur, Ortenzo Family Assistant Professor in Applied Medical and Nuclear Physics</td>
</tr>
<tr>
<td>Bruce A. Bunker, Professor</td>
</tr>
<tr>
<td>Mark A. Caprio, Associate Professor and Director of Graduate Studies</td>
</tr>
<tr>
<td>Jeffrey K. Chilcote, Assistant Professor</td>
</tr>
<tr>
<td>Philippe A. Collon, Associate Professor and Associate Chair and Director of Undergraduate Studies</td>
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<tr>
<td>Manoel Couder, Assistant Professor</td>
</tr>
<tr>
<td>Justin R. Crepp, Professor</td>
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<tr>
<td>Antonio Delgado, Professor</td>
</tr>
<tr>
<td>Malgorzata Dobrowska-Furdyna, Rev. John Cardinal O’Hara, C.S.C. Professor of Physics, and Associate Dean for Undergraduate Students, College of Science</td>
</tr>
<tr>
<td>Morten R. Eskildsen, Professor</td>
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<tr>
<td>Stefan G.Frauendorf, Professor</td>
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<tr>
<td>Jacek K. Furdyna, the Aurora and Tom Marquez Professor of Physics and Fellow of the Nanovic Institute for European Studies</td>
</tr>
<tr>
<td>Umesh Garg, Professor</td>
</tr>
<tr>
<td>Peter M. Garnavich, Professor and Chair</td>
</tr>
<tr>
<td>Kenjiro K. Gomes, Frank M. Freimann Assistant Professor</td>
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<tr>
<td>Michael D. Hildreth, Professor</td>
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<tr>
<td>J. Christopher Howk, Professor</td>
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<tr>
<td>Boldizsár Jankó, Professor and Director of the Institute for Theoretical Sciences</td>
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<tr>
<td>Colin P. Jessop, Professor</td>
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<tr>
<td>Christopher F. Kolda, Professor and Director of Glynn Family Honors Program</td>
</tr>
<tr>
<td>Kevin A. Lannon, Associate Professor</td>
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<tr>
<td>Craig Lent, Concurrent Professor</td>
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<tr>
<td>John M. LoSecco, Professor</td>
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<tr>
<td>Adam Martin, Assistant Professor</td>
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<tr>
<td>Grant J. Mathews, Professor and Director of the Center for Astrophysics</td>
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<tr>
<td>Kathie E. Newman, Professor</td>
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<td>Graham Peaslee, Professor</td>
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</table>
Jeffrey W. Peng, Concurrent Associate Professor

Sylwia Ptasinska, Associate Professor

Terrence W. Rettig, Professor

Randal C. Ruchti, Professor

Steven T. Ruggiero, Professor

Jonathan R. Sapirstein, Professor

Anna Simon, Assistant Professor

Rebecca Surman, Professor

Carol E. Tanner, Professor

Zoltan Toroczkai, Professor and Director of the Interdisciplinary Center for Network Science and Applications

Dervis Can Vural, Assistant Professor

Mitchell R. Wayne, Professor

Michael C. F. Wiescher, Frank M. Freimann Professor of Physics, Director of the Joint Institute for Nuclear Astrophysics, and Director of the Institute for Structure and Nuclear Astrophysics
Anthropology

Chair: Agustín Fuentes

Director of Graduate Studies: Vania Smith-Oka

Telephone: (574) 631-7269
Fax: (574) 631-5760
Location: 248 Corbett Family Hall
E-mail: gradanth@nd.edu
Web: http://anthropology.nd.edu

The Master of Arts

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The graduate program in anthropology does not typically admit students directly into the master of arts (M.A.) program. Students pursuing a doctorate in anthropology may elect to earn a master of arts degree on the way to the Ph.D.

If a student does not successfully pass the qualifying examinations to proceed to doctoral candidacy, he or she may be eligible to leave the program with a terminal M.A.

The Doctor of Philosophy

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Doctoral candidates follow a trajectory of study in methods and theory, based on the sub-fields of Anthropology, with flexible language, laboratory and field training depending upon perceived need and as determined by their individual research agenda. Along with required courses in the first two years of study, students make a research presentation at the end of the spring term. Students in their second year are normally expected to be teaching assistants in two classes.

In the fall term, third-year students take comprehensive examinations, and prepare a formal dissertation proposal that is suitable for submission to an external funding agency. Third years also prepare and submit grant proposals to external agencies to fund their dissertation fieldwork.

In the fourth and fifth year of study, students engage in completing their dissertation fieldwork; write, defend, and submit their dissertations; and submit manuscripts for publication. All requirements should ideally be completed within five years.

For specific course, field work, and exam requirements, see the program’s Graduate Student Guide.

Tenured and Tenure-Track Faculty

Maurizio Albahari, Associate Professor
Christopher Ball, Assistant Professor
Susan D. Blum, Professor
Catherine Bolten, Associate Professor
Alex E. Chávez, Assistant Professor
Meredith S. Chesson, Associate Professor
Agustín Fuentes, Professor and Chair
Lee Gettler, Assistant Professor
Donna Glowacki, Associate Professor
Mark Golitko, Assistant Professor
Ian Kuijt, Professor
Cara Ocobock, Assistant Professor
Natalie Porter, Assistant Professor
Mark Schurr, Professor
Economics

Chair: William N. Evans
Director of Graduate Studies: Drew D. Creal

Telephone: (574) 631-7698
Fax: (574) 631-4783
Location: 3060 Jenkins Nanovic Halls
E-mail: bdeymann@nd.edu
Web: http://economics.nd.edu

The Doctor of Philosophy

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<th>Degree Requirements</th>
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Examinations

Shortly after completing the core, students take comprehensive written exams in microeconomic and macroeconomic theory to assess the students’ command of the essential concepts and methods necessary to read the literature and to perform research at the disciplinary frontier. Possible outcomes of the comprehensive exams are (a) Ph.D. pass, (b) M.A. pass, (c) fail. Students who do not attain a Ph.D. pass in either examination have one opportunity for a retake later that summer, typically in August. Failure to pass both exams at the Ph.D. level results in dismissal from the program.

Students must be admitted to candidacy by the end of the fourth year by passing the candidacy exam which consists of written and oral components. The written part precedes the oral part and is satisfied by either a dissertation proposal or a paper that will become a chapter of the dissertation. The oral part can be taken no later than one calendar year prior to defense of the dissertation.

The Master of Arts

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<th>Degree Requirements</th>
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Students commence their studies with a "core" group of required courses that should be completed the first year. During the second year, students begin to develop their field specializations through continued course work, and complete a research paper. From the third semester on (fall semester of the second year), the student will be required to participate in a research seminar in his or her chosen fields. Participation means presenting updates of the student’s own research and critically analyzing that of others.

For additional information regarding course work and project requirements, consult the program handbook.

To complete the requirements for the Ph.D., students must defend and submit a written doctoral dissertation. The expected time to completion of the Ph.D. is five years.

Tenured and Tenure-Track Faculty

Rudiger Bachmann, Stepan Family Associate Professor
Christiane Baumeister, Robert and Irene Bozzone Associate Professor
Marinho Bertanha, Gilbert F. Schaefer Assistant Professor
Wyatt Brooks, Assistant Professor
Kasey Buckles, Brian and Jeannelle Brady Associate Professor
Robert Collinson, Wilson Family LEO Assistant Professor
Kirsten Cornelson, Assistant Professor
The Master of Arts in Educational Leadership (M.A.E.L.) degree program prepares, educates, and supports selected Catholic school teachers to continue their service to K-12 schools through leadership formation in the Mary Ann Remick Leadership Program in the Alliance for Catholic Education (ACE). All program candidates are provided with regular opportunities to interact with a national community of scholars and experts in the field of Catholic education. Candidates will be eligible for Indiana state licensure upon completion of the program, which includes the Pearson School Administrator-Building Level Assessment.

The Mary Ann Remick Leadership Program is designed to prepare candidates to become school leaders and meet the professional standards as defined by the Indiana Department of Education Rules for Educator Preparation and Accountability (REPA), aligned with the National Education Leadership Preparation (NELP) standards. The program is standards-based, and all course activities and requirements are designed with this in mind.

M.A. candidates take a total of 44 credit hours of coursework, completed over a 25-month span. Candidates are required to maintain an overall grade point of at least 3.0 while enrolled in the program. Courses begin in the
The Master of Education

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<td>42 credits (elementary focus)</td>
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<td>Total Credits</td>
<td>38 credits</td>
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<td></td>
<td>42 credits (elementary focus)</td>
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<td>Other</td>
<td>Supervised teaching</td>
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<td>Teaching portfolio</td>
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The Master of Education (M.Ed.) in Teaching program is available only to candidates enrolled in the Alliance for Catholic Education’s Teaching Fellows program. Candidates in this program work toward licensure, consistent with the standards in the state of Indiana in each of the following developmental levels: elementary (K-6), middle school (5-9), and secondary (5-12). The content areas within the middle school and secondary levels include English language arts, social studies, science, mathematics, and foreign languages. Like most accredited teacher education programs at the master’s level, content-area courses must be completed before entering the master’s program, resulting in education pedagogical coursework as the focus of this programming.

A total of 38 credit hours of letter-graded coursework (42 for elementary) and teaching experience are required, with an overall grade point of at least 3.0. Half of the coursework occurs in two summer sessions with 11 to 13 credits earned in each. For specific details regarding course requirements, consult the program handbook.

M.Ed. candidates must complete two years of service in teaching and earn grades of 3.0 or higher in the supervised teaching courses. The teaching portfolio is evaluated by both University faculty and master teachers, who provide recommendations for continued development. Candidates acquire teaching practice both in South Bend-area elementary and secondary schools and at an assigned Catholic school in the United States. Throughout the two years, supervision is accomplished by measuring candidate performance against professional performance indicators while candidates build a teaching portfolio documenting their progress in developing as a teacher.

Non-Degree Licensure Programs

Program for Inclusive Education

The Program for Inclusive Education (PIE) equips Catholic schools with the culture, foundation, and resources to educate all students inclusively while celebrating every student’s diverse and exceptional characteristics.

English as a New Language

The English as a New Language (ENL) program helps schools and teachers develop a deep understanding of the process of language acquisition, employ research-based instructional strategies, and cultivate culturally sustaining classrooms.

Students in this program complete 18 graduate credit hours over three terms: two on-campus courses during the summer session, followed by online modules in the fall and spring semesters so educators can return to their classrooms during the academic year. Professional development options in the form of on-campus summer workshops and online modules complement the academic programming.

The ENL program’s coursework leads to licensure in English Language Learners in Indiana, which is reciprocal with most states’ ESL/ESOL.
licenses. Students may work with the Office of Licensure at Notre Dame to identify comparable licenses in their home states.

**Political Science**

Chair:
David Campbell

Director of Graduate Studies:
Karrie J. Koesel

Telephone: (574) 631-9017
Fax: (574) 631-4405
Location: 2060 Jenkins Nanovic Halls
E-mail: psdgs@nd.edu
Web: http://politicalscience.nd.edu

The primary aim of the graduate program in political science is to train qualified candidates for research and teaching. The department offers five major subfields for the master of arts (M.A.) and doctor of philosophy (Ph.D.) degrees: American politics, comparative politics, constitutional studies, international relations, and political theory. Political science also features a minor subfield in methodology that students can study in addition to their major subfield requirements.

### The Master of Arts

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<tr>
<th>Degree Requirements</th>
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<tr>
<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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</table>

Ph.D. students are expected to complete at least 48 credit hours of coursework. For specific course and seminar requirements, consult the program handbook.

In addition, political science candidates must successfully pass a reading exam in one foreign language or two additional courses in quantitative methods (ESL students are exempted), and are expected to submit two papers to scholarly journals. A major grant application may substitute for one submission.

During their time in residency, students should expect to provide four semesters of service to the program, usually as a teaching assistant.

To complete the degree requirements, each student must defend and submit a doctoral dissertation.

### Tenured and Tenure-Track Faculty

- Sotirios A. Barber, Professor
- Jaimie Bleck, Associate Professor
- Eileen M. Hunt Botting, Professor
- David E. Campbell, Packey J. Dee Professor of American Democracy and Chair
- Susan Collins, Associate Professor
- Michael Coppedge, Professor
- David Cortez, Assistant Professor
- Darren Davis, Professor
- Patrick Deneen, Professor
- Michael C. Desch, Professor
- Rev. Robert Dowd, C.S.C., Associate Professor
- Amitava Krishna Dutt, Professor
- Luis Ricardo Fraga, Arthur Foundation Endowed Professor of Transformative Latino Leadership and Professor of Political Science
- Eugene Gholz, Associate Professor
- Gary Goertz, Professor
- Andrew Gould, Associate Professor
- Matthew Hall, Associate Professor
- Jeffrey Harden, Associate Professor
- Michael Hoffman, Assistant Professor
- Victoria Tin-bor Hui, Associate Professor
- Debra Javeline, Associate Professor
Rosemary A. Kelanic, Assistant Professor
Mary M. Keys, Associate Professor
Karrie J. Koesel, Associate Professor and Director of Graduate Studies
Geoffrey C. Layman, Professor
Dan Lindley, Associate Professor
Scott Mainwaring, Eugene P. and Helen Conley Professor of Political Science
A. James McAdams, William M. Scholl Professor of International Affairs
Vincent Phillip Munoz, Tocqueville Associate Professor of Religion and Public Life
Anibal Perez-Linan, Professor
Daniel Philpott, Professor
Dianne Pinderhughes, President’s Distinguished Professor of Political Science and Africana Studies
Emilia Justyna Powell, Associate Professor
Benjamin Radcliff, Professor
Ricardo Ramirez, Associate Professor
Sebastian Rosato, Associate Professor
Luis Schiumerini, Assistant Professor
Rev. Timothy R. Scully, C.S.C., Professor
Jazmin Sierra, Assistant Professor
Guillermo Trejo, Associate Professor
Ernesto Verdeja, Associate Professor
Dana Villa, Packey J. Dee Professor of Political Theory
Susanne Wengle, Assistant Professor
Christina Wolbrecht, Professor

Psychology

Chair:
Lee Anna Clark

Director of Graduate Studies:
Kathleen Eberhard

Telephone: (574) 631-7675
Fax: (574) 631-8883
Location: 390 Corbett Family Hall
E-mail: eberhard.1@nd.edu
Web: http://psychology.nd.edu

The graduate program in psychology is divided into four doctoral graduate program areas: cognition, brain, and behavior; clinical; developmental; and quantitative. The clinical program is accredited by the American Psychological Association (APA).

The graduate program in psychology is primarily oriented toward the doctoral degree and consists of two stages: the master of arts, and the doctor of philosophy.

The Doctor of Philosophy

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<th>Degree Requirements</th>
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<tr>
<td>GPA</td>
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<td>60 credits</td>
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<td>Other</td>
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<tr>
<td>Candidacy examinations</td>
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<tr>
<td>Practicum (as appropriate)</td>
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<tr>
<td>Doctoral dissertation</td>
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<tr>
<td>Internship (clinical area)</td>
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</table>

Students are expected to complete 60 or more credit hours, and may be required to complete a practicum when appropriate. The written oral doctoral candidacy examinations are ordinarily completed during the third or fourth year.

To complete the requirements for the Ph.D., students must defend and submit a doctoral dissertation. In the clinical area, students also are required to complete an internship.

For additional details regarding courses and area-specific requirements, consult the program and area’s graduate requirements documents.

Tenured and Tenure-Track Faculty

Cognition, Brain, and Behavior Area

James R. Brockmole, Professor; Associate Dean for the Social Sciences and Research; Joseph and Elizabeth Robbie Collegiate Chair

Laura A. Carlson, Professor; Vice President and Associate Provost; Dean of the Graduate School

Charles R. Crowell, Professor; Director of Computing & Digital Technologies Program

The Master of Arts

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<th>Degree Requirements</th>
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<tbody>
<tr>
<td>GPA</td>
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<td>30 credits</td>
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<tr>
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</tr>
<tr>
<td>Master’s thesis</td>
</tr>
</tbody>
</table>

The master of arts requires a minimum of 24 hours of course work, and the completion and defense of a research-based master’s thesis.

For specific course requirements, consult the program’s handbook.
Psychology • Sociology

Kathleen M. Eberhard, Associate Professor; Director of Graduate Studies

Bradley S. Gibson, Professor

Joshua Koen, Assistant Professor

Nicole M. McNeil, Alliance for Catholic Education Professor of Psychology; Director of Education, Schooling, and Society

Darcia Narváez, Professor; Fellow of the Institute for Educational Initiatives; Institute of Latino Studies; the John J. Reilly Center for Science, Technology and Values; and the Joan B. Kroc Institute for International Peace Studies

Jessica Payne, Associate Professor; Nancy O’Neill Collegiate Chair in Psychology

Gabriel A. Radvansky, Professor

Nathan Rose, Assistant Professor; William P. and Hazel B. White Collegiate Chair

Clinical Area

Brooke Ammerman, Assistant Professor

Thomas G. Burish, Professor, Provost

Lee Anna Clark, William J. & Dorothy K. O’Neill Professor in Psychology; Department Chair

E. Mark Cummings, William J. Shaw Center for Children and Families Professor; Fellow of the Joan B. Kroc Institute for International Peace Studies

Gerald J. Haefelf, Associate Professor

Jennifer Hames, Clinical Assistant Professor; Practicum Coordinator

Anita E. Kelly, Professor

Thomas V. Merluzzi, Professor; Director of the Clinical Area

Laura Miller-Griff, William J. Shaw Center for Children and Families Assistant Professor; Assistant Professor of Peace Studies

Scott M. Monroe, William K. Warren Foundation Professor of Psychology

Jessica Payne, Associate Professor; Nancy O’Neill Collegiate Chair in Psychology

David A. Smith, Professor

Kristin Valentino, Associate Professor; Director of William J. Shaw Center for Children and Family

David Watson, Andrew J. McKenna Family Professor of Psychology

Lira Yoon, Associate Professor; Fellow of the Joan B. Kroc Institute for International Peace Studies

Developmental Area

Cindy S. Bergeman, Professor

Julia M. Braungart-Rieker, William J. Shaw Center for Children and Families Professor; Mary Hesburgh Flaherty and James F. Flaherty III College Chair

E. Mark Cummings, William J. Shaw Center for Children and Families Professor; Fellow of the Joan B. Kroc Institute for International Peace Studies

Dawn M. Gondoli, Professor; Fellow of the Kroc Institute for International Peace Studies

Daniel K. Lapsley, Alliance for Catholic Education Professor of Psychology; Director of the Developmental Area

Nicole M. McNeil, Alliance for Catholic Education Professor of Psychology; Director of Education, Schooling, and Society

Darcia Narváez, Professor, Fellow of the Institute for Educational Initiatives; Institute of Latino Studies; the John J. Reilly Center for Science, Technology and Values; and the Joan B. Kroc Institute for International Peace Studies

Kristin Valentino, Associate Professor; Director of William J. Shaw Center for Children and Families

Quantitative Area

Ying (Alison) Cheng, Associate Professor

Ross Jacobucci, Assistant Professor

Gitta H. Lubke, Professor

Lijuan (Peggy) Wang, Associate Professor; Director of the Quantitative Area

Ke-Hai Yuan, Professor

Guangjian Zhang, Associate Professor

Zhiyong (Johnny) Zhang, Associate Professor

Sociology

Chair: William Carbonaro

Director of Graduate Studies: Terence McDonnell

Telephone: (574) 631-6585
Fax: (574) 631-9238
Location: 4060 Jenkins Nanovic
E-mail: dgsoc@nd.edu
Web: http://sociology.nd.edu/
The master of arts (M.A.) degree requires 30 total hours of credit, of which six credit hours may be earned for the master’s thesis. All students must complete and defend a research thesis for the master’s degree.

For specific details regarding course and candidacy requirements, consult the program handbook.

The doctoral program normally occupies six years of full-time work for students with the bachelor’s degree. Core requirements must be fulfilled in the first three years, according to scheduled sequencing. It is expected that the student will have completed all but the dissertation requirement by the conclusion of the fourth year of graduate study.

To fulfill the training and research requirements, each candidate must select two specialty areas and pass a comprehensive examination in each.
The interdisciplinary master of global affairs (M.G.A.) degree program is a rigorous academic program offered through the Keough School of Global Affairs. Students are expected to complete at least 36 credits of coursework in pursuit of the M.G.A., and must select a concentration: International Peace Studies; Sustainable Development; or Global Affairs + [Specialization]. All students are required to take core coursework as well as participate in the Policy Seminar and a practicum or thesis.

A key component of the M.G.A. program is the field experience in which students integrate theories learned in their coursework with the experience of working with non-governmental organizations and other institutions on issues related to sustainable development, conflict resolution, peace studies, human rights, or justice. The field experience can be either two or five months. Those students who take the two-month option will participate fully in the Integration Lab during the first, second, and third semesters. Those who undertake the five-month field experience will complete preparatory coursework during the first two semesters, field experience during the summer/third semester and a capstone paper in the fourth semester.

A small number of students may be approved to write a master’s thesis instead of pursuing an international internship. These students remain on campus during both academic years and research and write a thesis under the supervision of a thesis director in their second year.

For additional details regarding course, examination, and service requirements, consult the program handbook.
Global Affairs  •  Peace Studies

Patrick Griffin, Madden-Hennebry Professor of History; Director, Keough-Naughton Institute for Irish Studies

Rev. Daniel Groody, C.S.C., Associate Professor of Theology and Global Affairs; Vice President and Associate Provost; Director, Kellogg Global Leadership Program

Michel Hockx, Professor of Chinese Literature; Director, Liu Institute for Asia and Asian Studies

Caroline Hughes, Rev. Theodore M. Hesburgh, C.S.C., Chair in Peace Studies

Lakshmi Iyer, Associate Professor of Economics and Global Affairs; Director, Sustainable Development Concentration, Master of Global Affairs

Emmanuel Katongole, Associate Professor of Theology and Peace Studies

Tracy Kijewski-Correa, Leo E. & Patti Ruth Linbeck Chair and Associate Professor, Department of Civil and Environmental Engineering & Earth Sciences; Associate Professor of Global Affairs

Jennifer Mason McAward, Associate Professor of Law; Director, Center for Civil and Human Rights

Laura Miller-Graff, Assistant Professor of Psychology and Peace Studies

Ann Mische, Associate Professor of Sociology and Peace Studies

Ebrahim Moosa, Professor of Islamic Studies

Thomas Mustillo, Associate Professor of Global Affairs

Atalia Omer, Associate Professor of Religion, Conflict, and Peace Studies

Susan Ostermann, Assistant Professor of Global Affairs

Aníbal Pérez-Liñán, Professor of Political Science and Global Affairs

Patrizio Piraino, Associate Professor of Global Affairs

Clemens Sedmak, Professor of Social Ethics

Jason A. Springs, Director of the Ph.D. Program and Associate Professor of Religion, Ethics and Peace Studies

Rachel Sweet, Assistant Professor of Global Affairs

Ernesto Verdeja, Associate Professor of Political Science and Peace Studies

Ph.D. in Peace Studies and Anthropology

<table>
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<th>Degree Requirements</th>
<th>GPA Credits</th>
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<td></td>
<td>Foreign language requirement</td>
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<td></td>
<td></td>
<td>Comprehensive examination</td>
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<td></td>
<td>Dissertation prospectus defense</td>
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<td></td>
<td></td>
<td>Doctoral dissertation</td>
</tr>
</tbody>
</table>

Peace Studies

Chair:
Asher Kaufman

Director of Doctoral Studies:
Catherine Bolten

Telephone: (574) 631-6970
Fax: (574) 631-6973
Location: 1110 Jenkins Nanovic Hall
E-mail: krocphd@nd.edu
Web: http://kroc.nd.edu/ph-d

The Doctor of Philosophy

The Kroc Institute for International Peace Studies within the Keough School of Global Affairs at the University of Notre Dame offers a Ph.D. in peace studies in partnership with the Departments of Anthropology, History, Political Science, Psychology, Sociology, and Theology. This program grows out of an acute awareness of the need for more rigorous interdisciplinary study of peace and war and for deeper understanding of how peacebuilding can effectively address political, ethnic, and religious violence throughout the world. Graduates of the Kroc Institute program in peace studies will be fully credentialed in one of the six associated disciplines, and be fully acquainted with the research questions and findings of interdisciplinary peace research.

The Ph.D. in peace studies and anthropology typically requires a minimum of 24 hours of letter-graded course credits in anthropology, and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:

- Demonstrate documented proficiency in English and one other language;
- Submit application(s) for external funding for scholarly research;
Peace Studies

- Complete at least five semesters of research and teaching in anthropology and peace studies, including "Introduction to Peace Studies";
- Submit at least one article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

The combined comprehensive examination in peace studies and anthropology is normally completed during the student’s fifth semester. The exam consists of two parts, written and oral, with the oral occurring within 10 days of successful passage of the written portion.

Examiners should be members of the Department of Anthropology tenured and tenure-track faculty and Kroc Institute core faculty.

At least half of a candidate’s dissertation committee must be core Kroc Institute faculty or Kroc Institute faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of Anthropology.

Ph.D. in Peace Studies and History

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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<tr>
<td>Foreign language requirement</td>
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<tr>
<td>Comprehensive examination (peace studies)</td>
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<tr>
<td>Comprehensive examination (history)</td>
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<tr>
<td>Dissertation proposal defense</td>
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<tr>
<td>Doctoral dissertation</td>
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</table>

The Ph.D. in peace studies and history typically requires a minimum of 30 letter-graded course credits in history, and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:
- Demonstrate documented proficiency in English and one or two other language(s), depending on the specialty in history;
- Submit application(s) for external funding for scholarly research;
- Complete at least five semesters of research and teaching in history and peace studies, including "Introduction to Peace Studies";
- Submit at least one article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of History.

Ph.D. in Peace Studies and Political Science

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<th>Degree Requirements</th>
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<td>GPA Credits</td>
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<td>Total Credits</td>
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<tr>
<td>Other</td>
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<tr>
<td>Foreign language requirement</td>
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<tr>
<td>Comprehensive examination (peace studies)</td>
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<tr>
<td>Comprehensive examination (political science)</td>
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<tr>
<td>Dissertation proposal defense</td>
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<tr>
<td>Doctoral dissertation</td>
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</table>

The Ph.D. in peace studies and political science typically requires a minimum of 33 letter-graded course credits in political science, and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:
- Demonstrate documented proficiency in English and at least one other language;
- Submit application(s) for external funding for scholarly research;
- Complete at least five semesters of research and teaching in political science and peace studies, including "Introduction to Peace Studies";
- Submit at least one article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

Students in the peace studies and political science program complete separate comprehensive exams in peace studies, and in history. Each set of exams includes both a written component, and an oral component, with the oral occurring within 10 days of the completion of the written portion.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of History.

Students in the peace studies and political science program complete
Peace Studies

separate comprehensive exams in peace studies, and in their primary field in political science. The peace studies exam includes both a written component, and an oral component, with the oral occurring within 10 days of the completion of the written portion.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of Political Science.

Ph.D. in Peace Studies and Psychology

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<tr>
<th>Degree Requirements</th>
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</thead>
<tbody>
<tr>
<td>GPA Credits</td>
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<tr>
<td></td>
<td>44 credits (developmental)</td>
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<tr>
<td>Other</td>
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<tr>
<td></td>
<td>Comprehensive examination (peace studies)</td>
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<td></td>
<td>Preliminary examination (psychology)</td>
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<td>Master’s thesis</td>
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<td></td>
<td>Dissertation proposal defense</td>
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<td></td>
<td>Doctoral dissertation</td>
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</table>

The Ph.D. in peace studies and psychology typically requires a minimum of 42 letter-graded course credits in psychology (clinical) or 26 letter-graded course credits in psychology (developmental), and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:

- Demonstrate documented proficiency in English and at least one other language;
- Submit application(s) for external funding for scholarly research;
- Complete all requirements for the master of arts degree;
- Complete at least one year of psychology laboratory work and two semesters as a teaching assistant, including one semester as a TA in "Introduction to Peace Studies";
- Complete both a practicum and an internship as appropriate (clinical psychology track);
- Submit at least one article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

Students may, with the approval of the Kroc Institute director of doctoral studies, request a second psychology assistantship.

Students in the peace studies and psychology program complete one set of comprehensive exams in peace studies, and the preliminary examinations in psychology. The peace studies exam includes both a written component, and an oral component, with the oral occurring within 10 days of the completion of the written portion.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of Psychology.

Ph.D. in Peace Studies and Sociology

The Ph.D. in peace studies and sociology typically requires a minimum of 42 letter-graded course credits in psychology, and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:

- Demonstrate documented proficiency in English and at least one other language;
- Submit application(s) for external funding for scholarly research;
- Complete at least five semesters of research and teaching in sociology and peace studies, including "Introduction to Peace Studies";
• Submit at least one article for external peer review; and
• Defend and submit to the Graduate School a dissertation of original research.

Students in the peace studies and sociology program complete separate comprehensive exams in peace studies, and in sociology. The peace studies exam includes both a written component, and an oral component, with the oral occurring within 10 days of the completion of the written portion.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of Sociology.

**Ph.D. in Peace Studies and Theology**

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<th>Degree Requirements</th>
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<td><strong>GPA Credits</strong></td>
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<td><strong>Total</strong></td>
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<td><strong>Other</strong></td>
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The Ph.D. in peace studies and theology typically requires a minimum of 24 letter-graded course credits in theology, and 18 credits of the same in peace studies.

In addition to the required credit hours, students in this program are expected to:

• Demonstrate documented proficiency in English, two modern languages, and one classical language;
• Submit application(s) for external funding for scholarly research;
• Complete at least five semesters of research and teaching in theology and peace studies, including “Introduction to Peace Studies”;
• Submit at least one article for external peer review; and
• Defend and submit to the Graduate School a dissertation of original research.

Students in the peace studies and theology program complete separate comprehensive exams in peace studies and in theology. The peace studies exam includes both a written component, and an oral component, with the oral occurring within 10 days of the completion of the written portion.

All comprehensive examiners in peace studies must be core Kroc Institute faculty or Kroc faculty fellows.

At least half of a candidate’s dissertation committee must consist of core Kroc Institute faculty or Kroc faculty fellows.

For additional details regarding course, examination, and service requirements, please consult the Kroc Ph.D. Student Manual and the graduate student handbook for the Department of Theology.

**Tenured and Tenure-Track Faculty**

R. Scott Appleby, Marilyn Keough Dean; Professor of History

Ted Beaty, Associate Dean for Academic Affairs; Professor of History

Catherine Bolten, Associate Professor of Anthropology and Peace Studies; Director of Doctoral Studies

Paolo Carozza, Professor of Law; Director, Kellogg Institute for International Studies

Diane Desierto, Associate Professor of Human Rights Law and Global Affairs

William Collins Donahue, Ref. John J. Cavanaugh, C.S.C., Professor of the Humanities; Director, Nanovic Institute for European Studies

Gary Goertz, Professor of Political Science and Peace Studies

Patrick Griffin, Madden-Hennebry Professor of History; Director, Keough-Naughton Institute for Irish Studies

Rev. Daniel Groody, C.S.C., Associate Professor of Theology and Global Affairs; Director, Kellogg Global Leadership Program; Director, Center for Latino Spirituality and Culture, Institute for Latino Studies

Michel Hockx, Professor of Chinese Literature; Director, Liu Institute for Asia and Asian Studies

Caroline Hughes, Rev. Theodore M. Hesburgh, C.S.C., Chair in Peace Studies

Lakshmi Iyer, Associate Professor of Economics and Global Affairs

Emmanuel Katongole, Professor of Theology and Peace Studies
Associated Faculty

Erin Corcoran, Executive Director, Kroc Institute for International Peace Studies; Concurrent Faculty, Keough School of Global Affairs

George Lopez, Rev. Theodore M. Hesburgh, C.S.C., Professor Emeritus of Peace Studies

Susan St. Ville, Director, Peace Studies Concentration, Master of Global Affairs
Appeal Procedure for Graduate Students

The purpose of this procedure is to afford graduate students at the University of Notre Dame the opportunity to resolve complaints dealing with academic issues and other program decisions that terminate or impede progress toward the degree, such as dismissal from graduate standing, placement on probationary status, and denial of readmission to the same program (if the student was previously in good standing).

This procedure is not to be used to address issues of sexual or discriminatory harassment (see grievance procedure available through the Office of Institutional Equity), of academic fraud (see the ‘Academic Integrity’ section of the Graduate School Bulletin of Information), or for disability-related grievances (see grievance procedure available through the Office of Disability Services).

This procedure is provided for continuing and returning graduate students in the Graduate School. It is not to be used by applicants for admission or by students in the Mendoza College of Business, the Law School, or the School of Architecture.

Program Resolution Process

Programs are required to develop a formal grievance procedure approved by the Graduate School. Graduate students must first attempt to resolve complaints at the lowest level, i.e., within the student’s program, according to grievance procedures specified in the program’s graduate student guide. If a graduate student believes that the program reached its decision resolving the student’s grievance in error, the student may appeal the decision to the Dean of the Graduate School, subject to and in accordance with Section 3 below.

Formal Appeal Procedure to the Dean of the Graduate School

If a graduate student decides to formally appeal a program’s decision resolving the student’s grievance, the student must submit a written request for appeal to the Graduate School’s associate dean for academic affairs as set forth below. The only grounds upon which an appeal may be based are:

1. A procedural error within the program’s stated grievance procedure which may have substantially affected the fairness or outcome of the grievance procedure.

2. New evidence that becomes available only after the conclusion of the program’s grievance procedure which reasonably may have impacted the fairness or outcome of the grievance procedure.

3. An inappropriate sanction which is grossly disproportionate to the conduct initiating the sanction, considering the relevant aggravating and/or mitigating factors.

Dissatisfaction or disagreement with a decision is not grounds for appeal.

The request for appeal must include the following information: (1) the graduate student’s name, address, email address, and phone number; (2) relevant information from the program’s grievance process (date of hearing, any written decision(s) from the program, and sanction(s)); (3) the ground(s) upon which the request for appeal is based; and (4) for each ground stated, an explanation of why the student’s appeal meets that ground (e.g., identify specific procedures that were not followed during the grievance procedure, identify any evidence discovered following the conclusion of the grievance process, or explain why the sanction is not commensurate with the underlying conduct).

The request for appeal must be submitted to the Graduate School’s associate dean for academic affairs within 30 calendar days of the program’s decision. Only the Graduate School’s associate dean for academic affairs may
extend this deadline, at his or her sole discretion, in extenuating circumstances. If no request for appeal is submitted within the 30-day appeal period, and no extension has been granted by the associate dean for academic affairs, then the program’s decision becomes final and is not subject to appeal.

The associate dean for academic affairs will then convene a meeting of an ad hoc academic appeals committee, composed of three faculty members chosen by the associate dean for academic affairs, all of whom will be current members of their respective College Council. Two of the three faculty members on the appeals committee shall be from the appellant’s college, and one shall be from outside the appellant’s college, unless an appellant is enrolled in a trans-college program, in which case each college will be represented on this committee. The committee will also include one non-voting graduate student. This student may be either one of the current Graduate Student Union representatives or a substitute from the appellant’s college selected by the associate dean for academic affairs from a pool of students identified by the Graduate Student Union. The associate dean for academic affairs, who does not vote, will chair the committee. At the appellant’s request or by request of the committee, this appeals committee will also meet with the appellant. The committee may also meet with other individuals involved.

The appeals committee will make a written recommendation to the Dean of the Graduate School within 30 calendar days of receipt of the appeal. The Dean may or may not accept the committee’s recommendation, but in either case, the Dean will issue a written decision to the appellant within 30 calendar days of receipt of the committee’s recommendation. The Dean, at his or her sole discretion, in extenuating circumstances, may extend these 30-day deadlines. The Dean will send a copy of this decision letter to the department chair or the director of the program. The judgment of the Dean of the Graduate School is final.

Students who have been dismissed from their program cannot register or complete the ND Roll Call process for subsequent semesters, including the summer session, during the appeal process.

### Childbirth and Adoption Accommodation Policy

#### Rationale

The following policy is intended to assist graduate students who are new parents. It is a supplement, not an addition, to the six week medical separation policy. Unlike the medical separation policy that covers any medical condition, this accommodation policy addresses a single set of circumstances: new parenthood. The accommodation provides students with a semester (16 weeks) to adjust to new parenthood. It is not a leave of absence; it is an accommodation. Students maintain their standing as students and are eligible for financial support.

Departments are encouraged to work out specific arrangements with students, on a case-by-case basis, within the broad framework of this policy.

#### Eligibility

All full-time students in good academic standing who are primary and full-time caregivers of a newborn child or a child less than 5 years old newly placed in the home are eligible.

In addition:

- Students must have completed one semester and have been registered and enrolled for at least another semester prior to the request.

- Students may make use of the policy up to two times provided that at least one semester of full-time enrollment occurs between requests.

- Parents who are not the primary and full-time caregiver may apply for a leave of absence, but are not eligible for accommodation.

#### Accommodation in Comparison to Leave

This accommodation is intended to provide relief from full-time responsibilities while providing continuing financial support. It differs from a leave of absence in three ways: responsibilities, eligibility clock, and funding.

1. **Responsibilities**

   **Accommodation**

   - Students are relieved of full-time graduate studies/duties (such as teaching and research).

   - Students’ official academic exam (e.g., oral candidacy exams, master’s comprehensives, etc.) deadlines are extended for one semester.

   - Students are relieved of course-work deadlines for one semester (16 weeks) during or immediately following the semester in which the birth or adoption oc-
Leaf of Absence

- Students are relieved of all responsibilities.
- If a student wishes to devote full-time care to a newborn or a newly adopted child, the student should request a leave of absence.

Departments are encouraged to be as flexible as possible with the student seeking accommodation. This student’s assignments should allow for maximum flexibility in his/her schedule during the first 6 weeks after the child arrives. The amount of engagement and reduction in workload during the entire accommodation period (both prior to and after the birth or adoption of a child) should be specified in writing prior to the onset of the accommodation period. The notification section of this document outlines the process for requesting the accommodation.

2. Eligibility Clock

Accommodation

- Student’s academic eligibility clock is extended by a semester, effectively adding a semester to the student’s eligible time to meet all degree requirements. Stops the student’s eligibility clock.

Leave of Absence

- Student still has eight years to fulfill all requirements and must meet all of the normal program and Graduate School deadlines.

3. Funding

Accommodation

- Student will remain eligible to receive financial support (see below) and the health insurance subsidy.

Leave of Absence

- Student will forego financial support from the University.

If, after the end of the accommodation period, the student wishes to have more time, he/she can apply for a leave of absence. The clock will stop, but so will funding. Students on leave may still enroll in the health insurance plan at their own expense.

Funding

Students who are fully-funded and who have not yet completed their 5th year of study will continue to be supported financially. They will continue to receive a stipend at the same level for the length of the accommodation (see below for possible exceptions), receive a tuition scholarship, and receive the health insurance subsidy from the Graduate School. Terminal master’s students, and students who have completed their 5th year of study, are eligible for the accommodation only, not for funding under this policy. Departments and advisors may provide funding in these cases if there are available resources. Parental relief cannot be combined with other funding.

There are two important funding limits:

4. The total number of years of funding will not be extended
5. For students with 9 month stipends, funding is for the academic year only. For students with a 12 month stipend, funding is for the calendar year.

Students with special funding circumstances:

- Teaching assistants will be relieved of all teaching duties. As stated above, they must continue to be intellectually engaged in the activities of the department and their research. Details of this engagement should be worked out in writing between the student and the department prior to the start of the accommodation.
- Students on research grants who wish to continue to receive full funding must follow the following guidelines. If the student is funded by a grant, the level of support is determined by the granting agency. If the student is expected to devote 50% or 75% of his/her former working hours to his/her research, the grant will pay 50% or 75% of her former stipend, assuming he/she works at full capacity during those reduced hours. The Graduate School will make up the difference between what the grant pays and the former stipend, up to 50% of the former stipend. If the grant funding is reduced below 50%, the Graduate School will still pay 50%.

1. Students may take incompletes in courses or take a reduced course load; however, students must register for at least 9 credit hours.

2. Students who are funded on a 12-month basis can choose to initiate this accommodation during the summer term. On the date this accommodation is initiated during the summer the 16 week “semester” will begin and then end during a point in the fall semester. Once the 16 week accommodation has been completed, the student will be expected to finish out the fall semester at a 100% workload. All official academic exam deadlines will be treated as if the student had been granted the accommodation in the fall semester.

3. Those students for whom serving as a TA is a requirement must fulfill the requirement in a later semester.
Details of the final arrangement should be worked out in writing between the student and the department prior to the start of the accommodation.

- If a student is funded by an external fellowship, the level of support is determined by the foundation. If the fellowship is reduced or eliminated as a result of a new child, the Graduate School will fund up to 50% of the student's former stipend under the fellowship. Questions should be directed to the Graduate School.

**Notification**

Eligible students must notify their advisor, director of graduate studies, and the associate dean of students in the Graduate School of their intent to use the accommodation policy at least 60 days prior to the expected date of childbirth or adoption. The Request for Childbirth and Adoption Accommodation form has been placed on the Graduate School website for this purpose.

The 2-page form collects the necessary information for the accommodation agreement, including:

- Eligibility requirements
- Student responsibilities and expectations during the accommodation
- Formula for special funding circumstances during accommodation

This agreement should then be approved and signed by the student, the student's advisor, the departmental DGS and the chair or the graduate studies committee, and sent to the associate dean of students in the Graduate School for review. In the event that the student and department cannot reach a decision about an appropriate workload, the associate dean of students in the Graduate School should be consulted. The details of the agreement may be re-assessed and revised after childbirth or adoption. Accommodated students should submit a brief written progress report to their advisors at the end of the accommodation period.

**Policy for Pregnant Graduate Students in Labs**

Exposure to certain chemicals, biological agents and radiation has proven harmful to fetuses, especially in the first three months. For those pregnant graduate students whose research requires them to be present in laboratories where there is a potential biological, chemical, or radiation risk to her unborn child, the Graduate School strongly recommends that they immediately inform their advisors of their pregnancy, and then contact the Office of Risk Management. This office is dedicated to providing professional advice in the areas of safety, occupational health, environmental protection and risk management. Safety professionals can advise the student (and the advisor) about the effects of harmful materials on the development of the fetus, particularly in the critical first three months, and recommend that the woman avoid the laboratory for a certain period of time.

**Appendix**

**Student Procedure Overviews**

**Defense of the Doctoral Dissertation**

The purpose of a dissertation defense is to offer the doctoral candidate an opportunity to support the claims, procedures, and results of the dissertation. The defense is the traditional instrument that enables the candidate to explore with the committee the dissertation's substantive and methodological force. In this way, the candidate and the committee confirm the candidate's scholarly grasp of the chosen research area and original contribution to knowledge.

Dissertation defenses will not be allowed to proceed until all reader's reports have been received in the Graduate School at least two business days before the defense takes place.

Prior to the defense, committees should review departmental regulations for the conduct of the exam, the process of the exam, and voting procedures. Before the exam begins, they should inform the candidate of the process of the defense. After completion of the examination, the candidate should be asked to leave the room. Discussion of the candidate's performance should then commence, with the committee ultimately voting on whether that performance merits a passing or failing grade. On a board of three, two votes are required to pass. On a board of four, three votes are required to pass. If a department chooses to have five members, four votes are required to pass. A written report of the results of the voting is sent immediately to the Graduate School by a member of the committee, normally the advisor.
In case of failure, the department chair, on the recommendation of a majority of the examiners, may authorize a retake of the defense if this is permitted by departmental regulations. An authorization for retake must be approved by the Graduate School. A second failure results in forfeiture of degree eligibility and is recorded on the candidate’s permanent record.

A candidate has the right to appeal the result of the defense to the Dean of the Graduate School on procedural grounds only, not on its substance or on his/her performance. If a retake is granted, an outside monitor appointed by the Graduate School must be present.

### Oral Candidacy Examination

The oral candidacy examination may serve several purposes. In part, it tests the candidate’s readiness for advanced research in the more specialized area(s) of his/her field. It may also be comprehensive. Successful passage indicates that, in the judgment of the committee, the candidate has an adequate knowledge of the basic literature, problems, and methods of his/her field to proceed to a dissertation. If the proposal defense is part of the oral exam, it should be a defense of a proposal and not of a completed dissertation.

Prior to the examination, committees should review departmental regulations for the conduct of the exam, the process of the exam, and voting procedures. Before the exam begins, they should inform the candidate of the process of the exam. After completion of the examination, the candidate should be asked to leave the room. Discussion of the candidate’s performance should then commence, with the committee ultimately voting on whether that performance merits a passing or failing grade. On a board of three, two votes are required to pass. On a board of four, three votes are required to pass. If a department chooses to have five members, four votes are required to pass. A written report of the results of the voting is sent immediately to the Graduate School by a member of the committee, normally the advisor.

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A candidate has the right to appeal the result of the exam to the Dean of the Graduate School on procedural grounds only, not on its substance or on his/her performance. If a retake is granted, an outside monitor appointed by the Graduate School must be present.
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